

An Experimental and Qualitative Assessment of  
Smoke Control Systems

Supplementary Appendix

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Volume II

# **Supplementary Appendix**

## **PIV Data**

Atrium  
Dimensions  
2350H; 870W;  
1080L

1:7 SCALE  
MODEL

Fire  
Compartment  
Dimensions:  
600H; 870W;  
660-2460L

Methanol  
supply pipe.

Fire sizes:  
4.6 & 6.1kW

Ventilation through  
wall, to allow free  
plume formation

z-plane

y-plane

w-plane

To fan and  
pitot tube

Alternative  
laser  
scanner box  
locations  
1 & 2

Extent of laser  
sheet (location 2)

Construction:

50mm timber frame, plasterboard/mineral board lining to inside. 100mm mineral insulation.

Glass viewing panel to side of atrium and fire compartment.

Wire mesh at a,b and c. Honeycombing at d (slot cut through to allow clear passage of laser).

Downstand at exit; 0, 50, 100, 200 deep.

Balcony 450 or 0 wide.

EXPERIMENTAL RIG FOR ATRIUM SMOKE FLOW

## **IMAGES 1 TO 160:**

### **SETTINGS FOR ALL IMAGES:**

#### **Laser and Scanner:**

- All images from S-VHS camera, at 50 Hz
- Scanner rate 200 Hz
- 11.0 W laser output

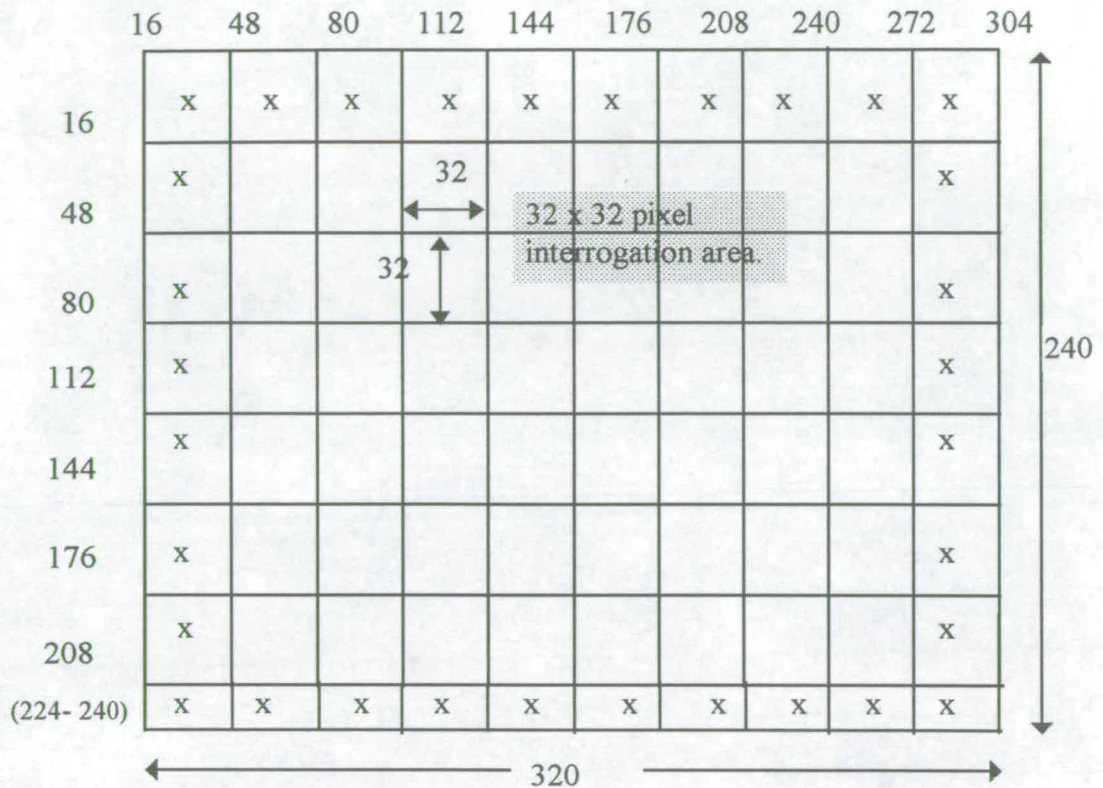
#### **Video Capture:**

- Premiere software.
- Frames captured at 1 second intervals
- 320 x 240 pixel images
- Uncompressed
- Gray scale (256 range), sharpened 70 % (by Corel Photo-Paint) for printing

#### **Analysis by Vidpiv programme, with settings:**

- Autocorrelation
- Interrogation grid size: 32 pixels
- Interrogation grid spacing: 32 pixels
- Validation: 12 % from predicted (2 passes of interrogation grid)
- Visual inspection of individual vectors to delete erroneous points and to correct direction.
- Interpolation to generate vectors in unseeded or deleted grids.
- Vector maps, from screen capture programme (Vidpiv not able to copy image to file)

## BASIC GRID LAYOUT:



- The units in shown here are in Pixels. The overall dimensions for each bitmap image (video frame) are 320 x 240 pixels.
- The velocity maps consist of 48 (60 x 8) interrogation cells. A border strip of cells are not analysed. This strip is 32 pixels wide (14 wide along the bottom). The maximum total area of the image that is analysed is 192 x 256 pixels. During set-up for the analysis procedure, a smaller area can be specified. This avoids analysis of unseeded areas, which would result in 'noise' based data, interfering with the data from clearly seeded areas.
- Each set of images is preceded by a summary grid. These show the location of the centreline dimensions of the interrogation cells, relative to an origin, as shown on the diagram on the next page. The grid dimensions have been converted to mm. The downstands, ceilings and back walls are located on the grid, for each set of images.

## LOCATION OF IMAGES FOR DIFFERENT GEOMETRIES

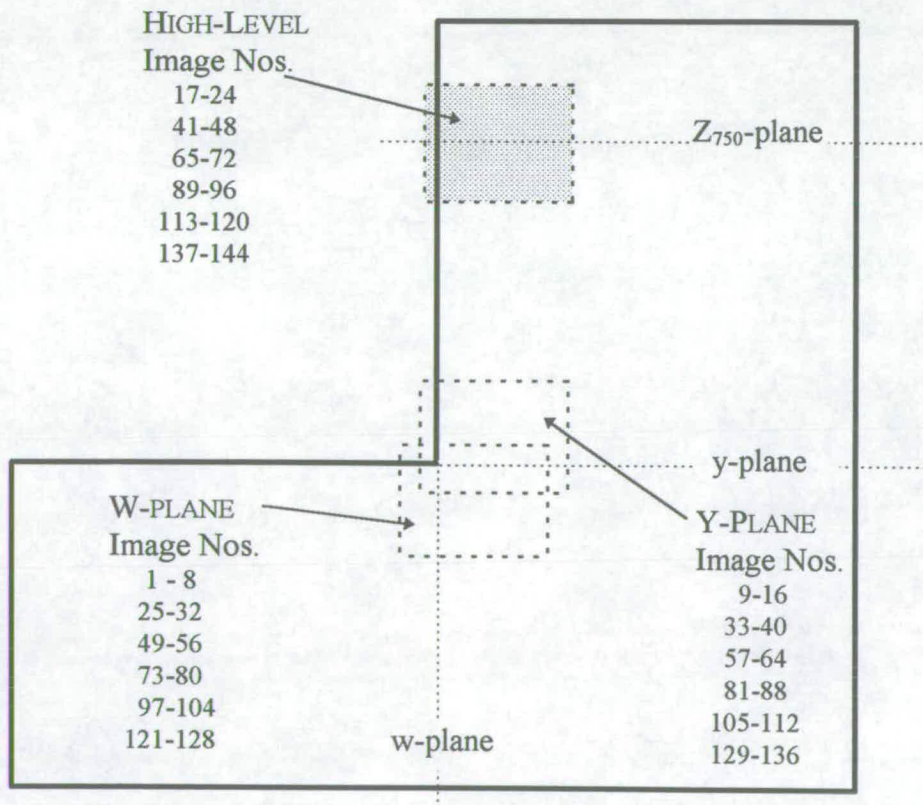
The geometries for the sets of images are as follows:

### GEOMETRY

Image Nos.	Geometry
1 - 24	660 mm long compartment; 0 mm downstand
25 - 48	660 mm long compartment; 50 mm downstand
49 - 72	660 mm long compartment; 100 mm downstand
73 - 96	660 mm long compartment; 200 mm downstand
97 - 120	2460 mm long compartment; 0 mm downstand
120 - 144	2460 mm long compartment; 0 mm downstand

### LOCATION

Each geometry was analysed in three separate locations, as follows:



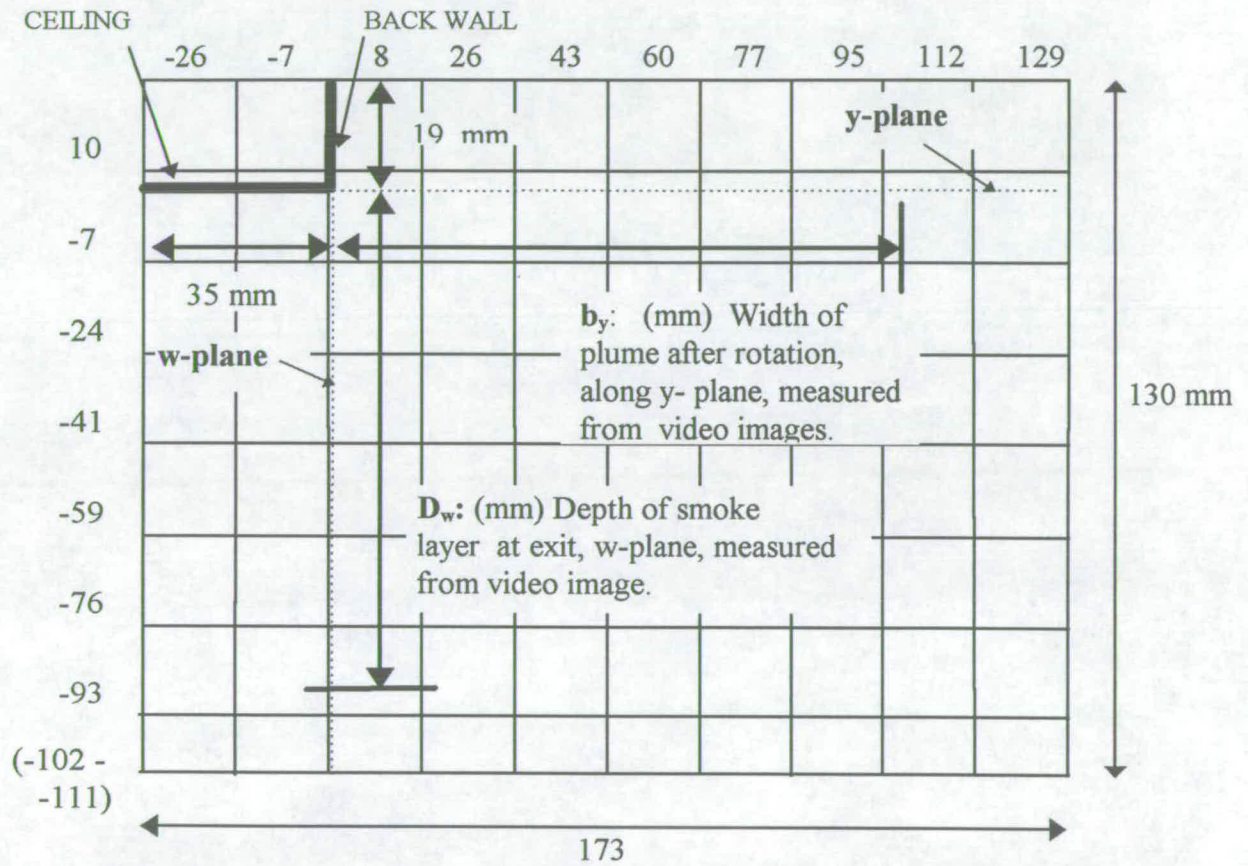
This set-up shows the location of the frames when no downstands are present. For the other geometries, the lower sets of images also focused on the flow through the w-plane and the y-plane (i.e. on the flow rotating around the bottom edge of the downstand).

All high level images focus on the flow through the set reservoir height of 750 mm above the y-plane.

# IMAGES 1 TO 8:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

660 mm long compartment; no downstand;  
no balcony; 4.61 kw heat source

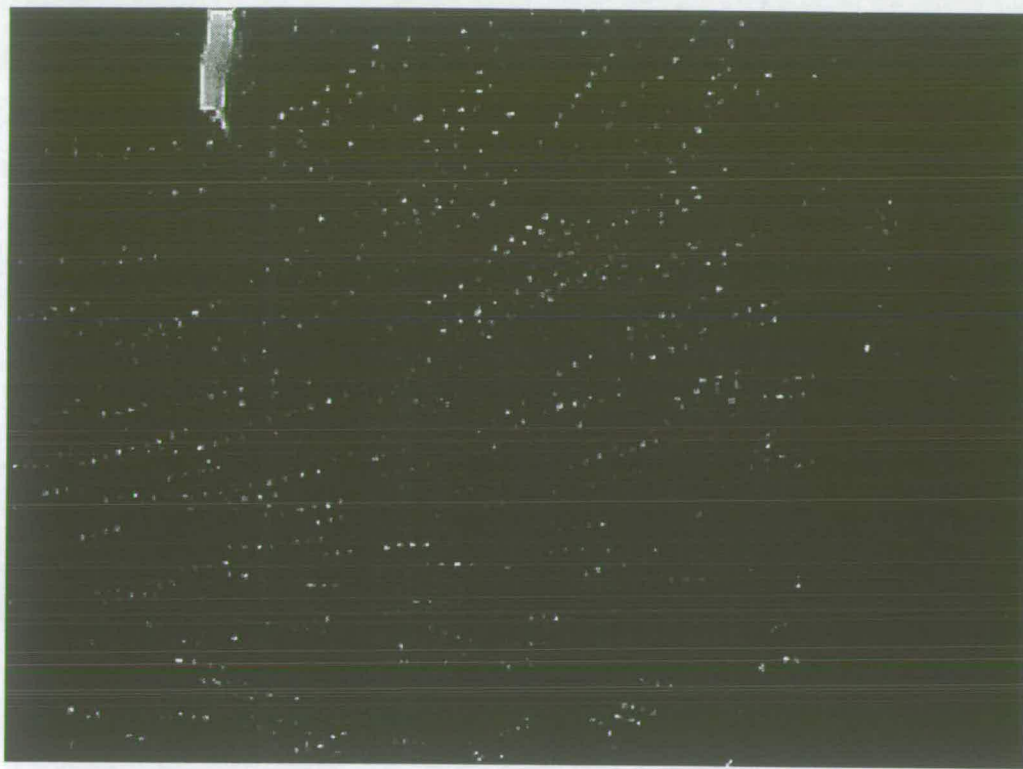


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 1 - 8

Interrogation areas 17.3 mm x 17.3 mm.

SCALE: 1 PIXEL = 0.540 MM

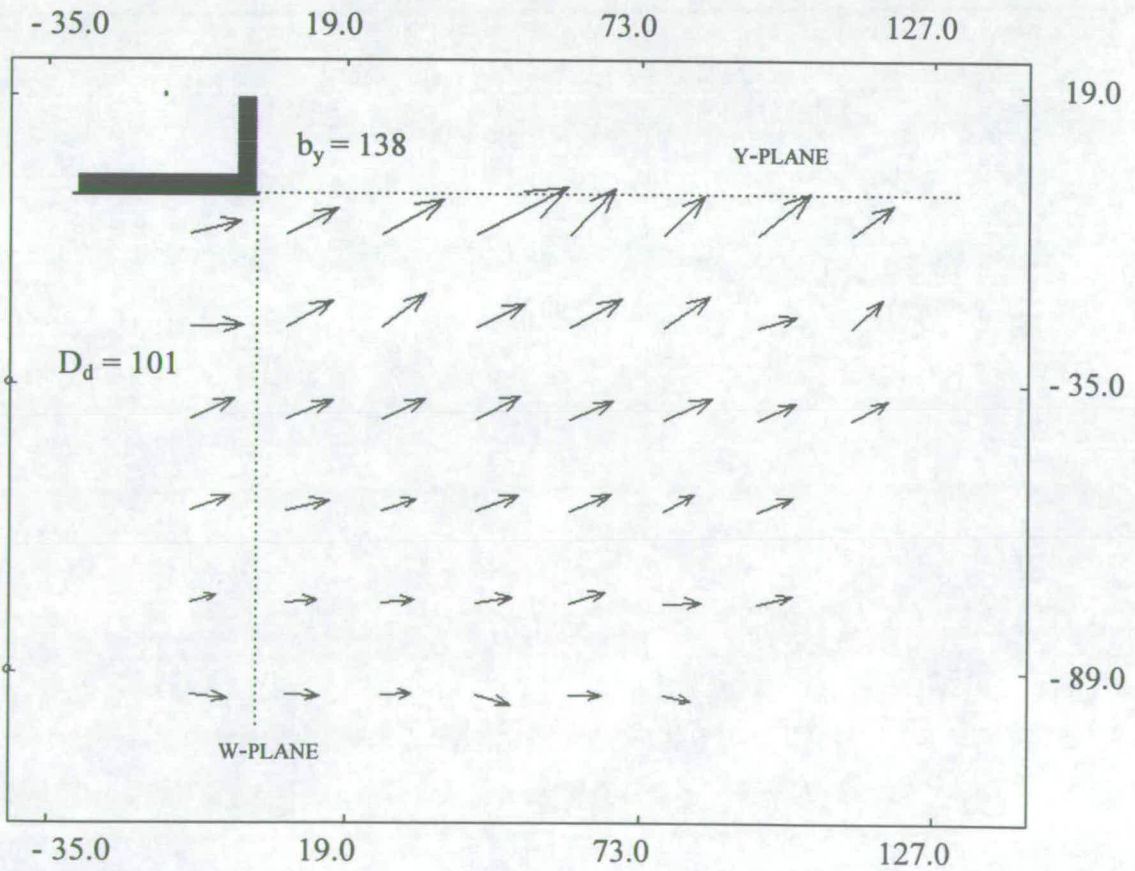
File references: d0w01, d0w02, d0w05, d0w06, d0w07, d0w08, d0w10, d0w14



173 MM

130 MM

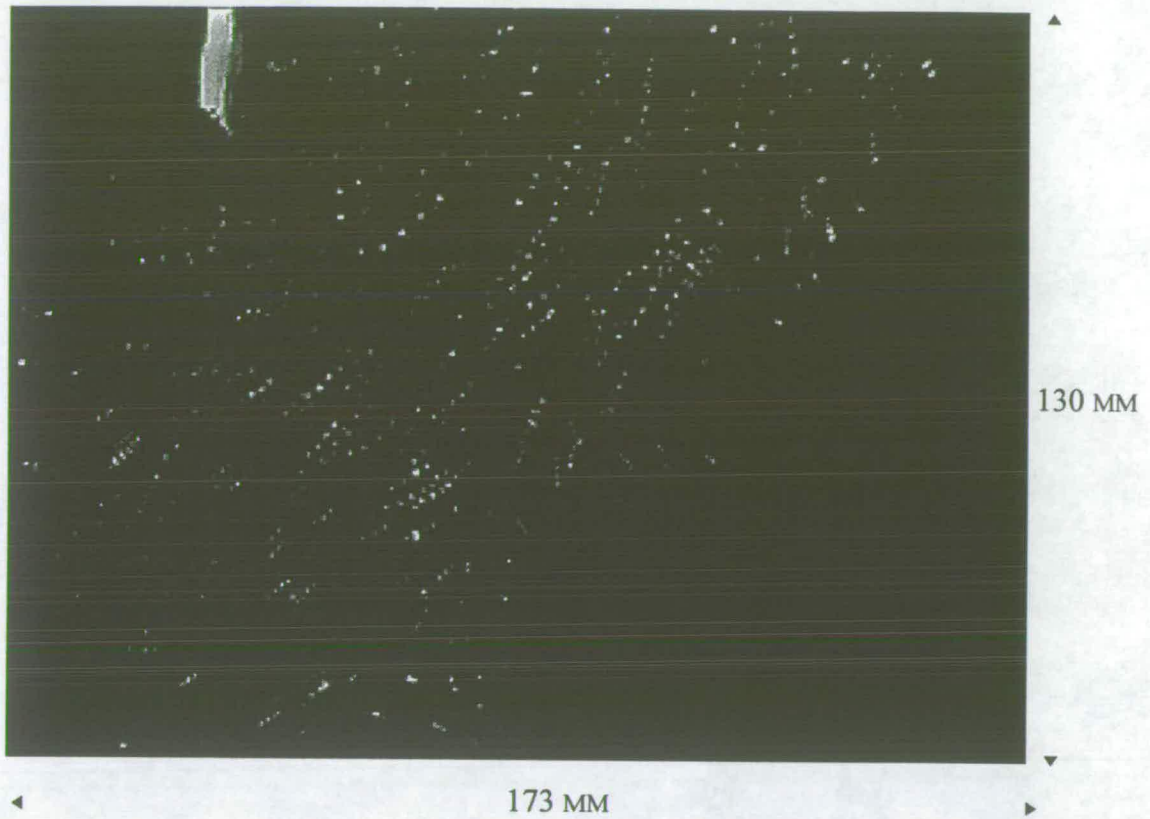
ORIGINAL IMAGE



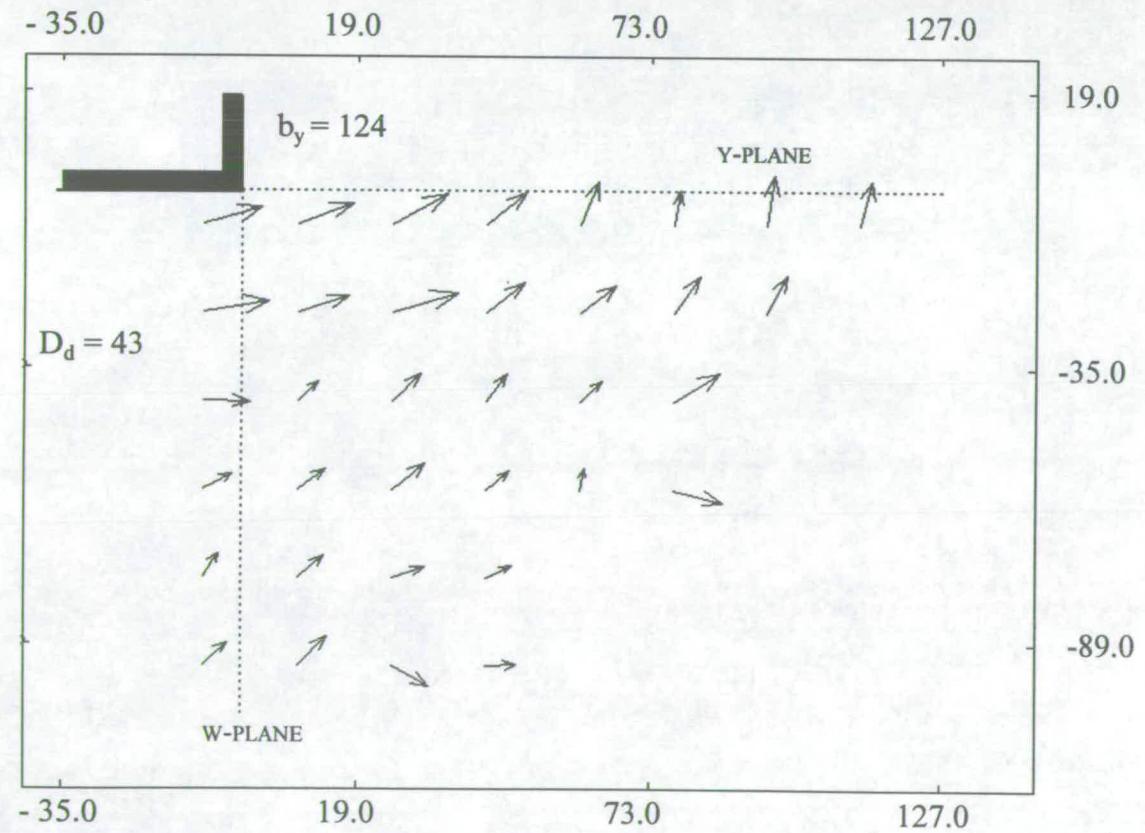
VECTOR MAP

IMAGE NO. 1

(REF.: D0W01)



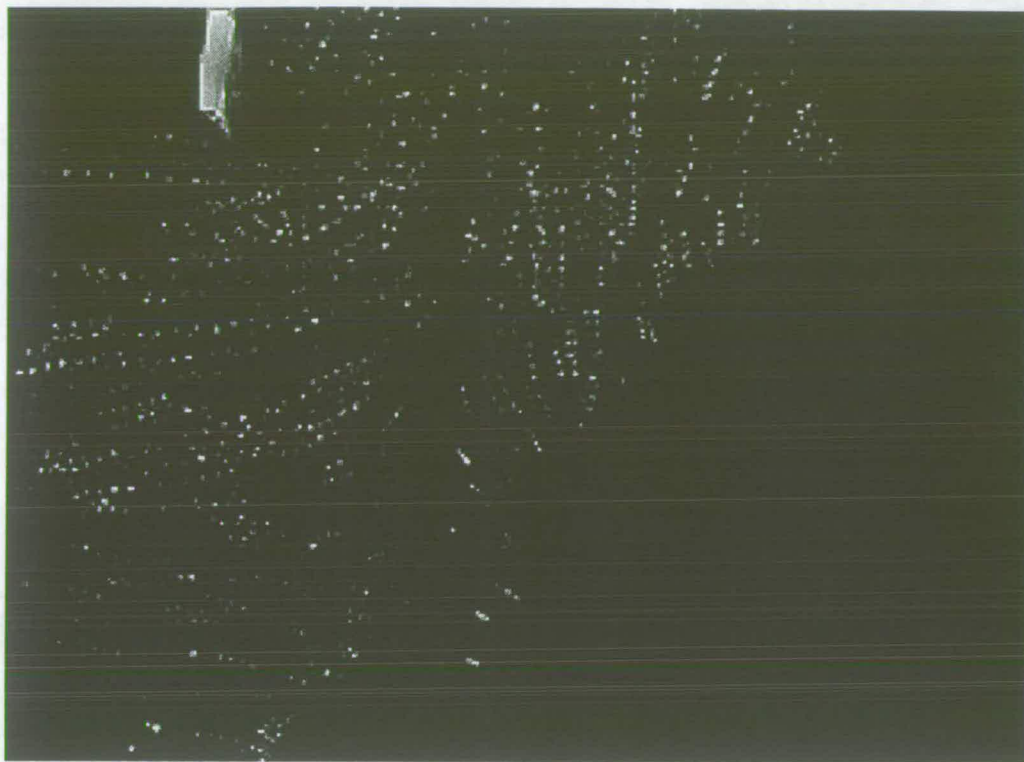
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 2

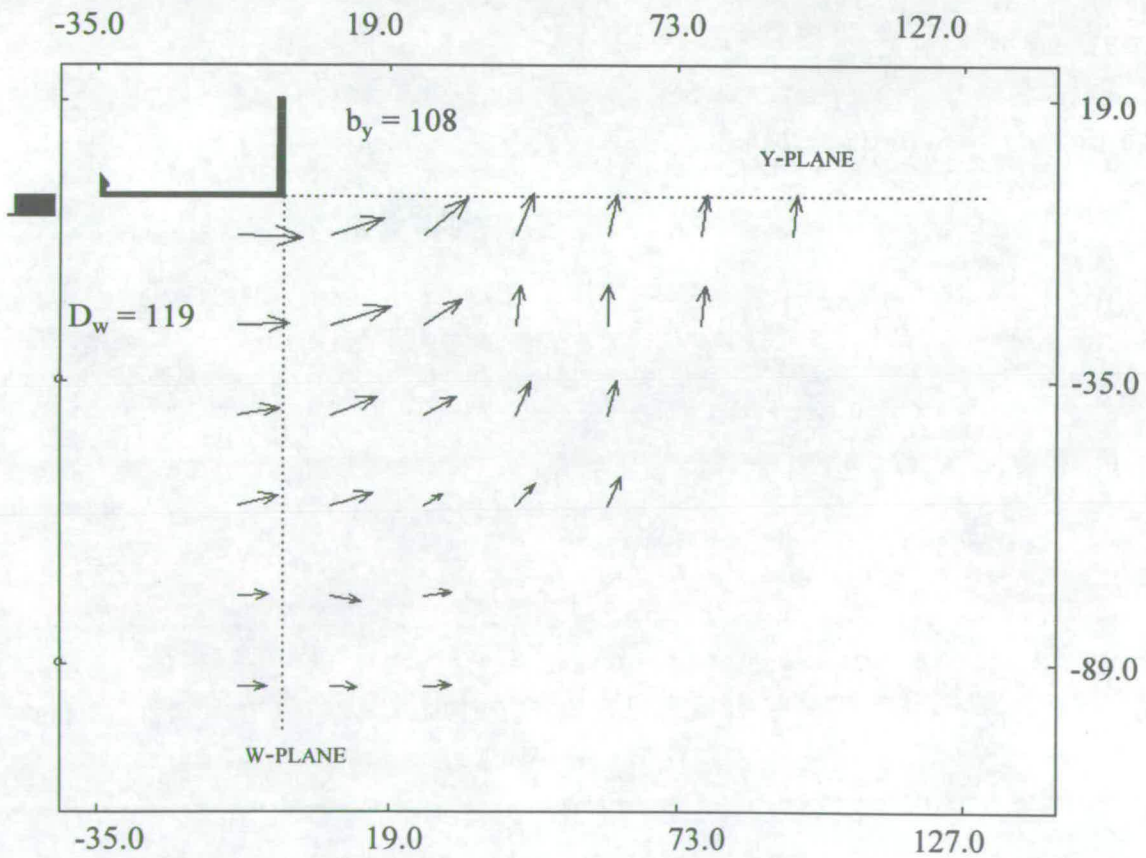
(REF.: D0W02)



130 MM

173 MM

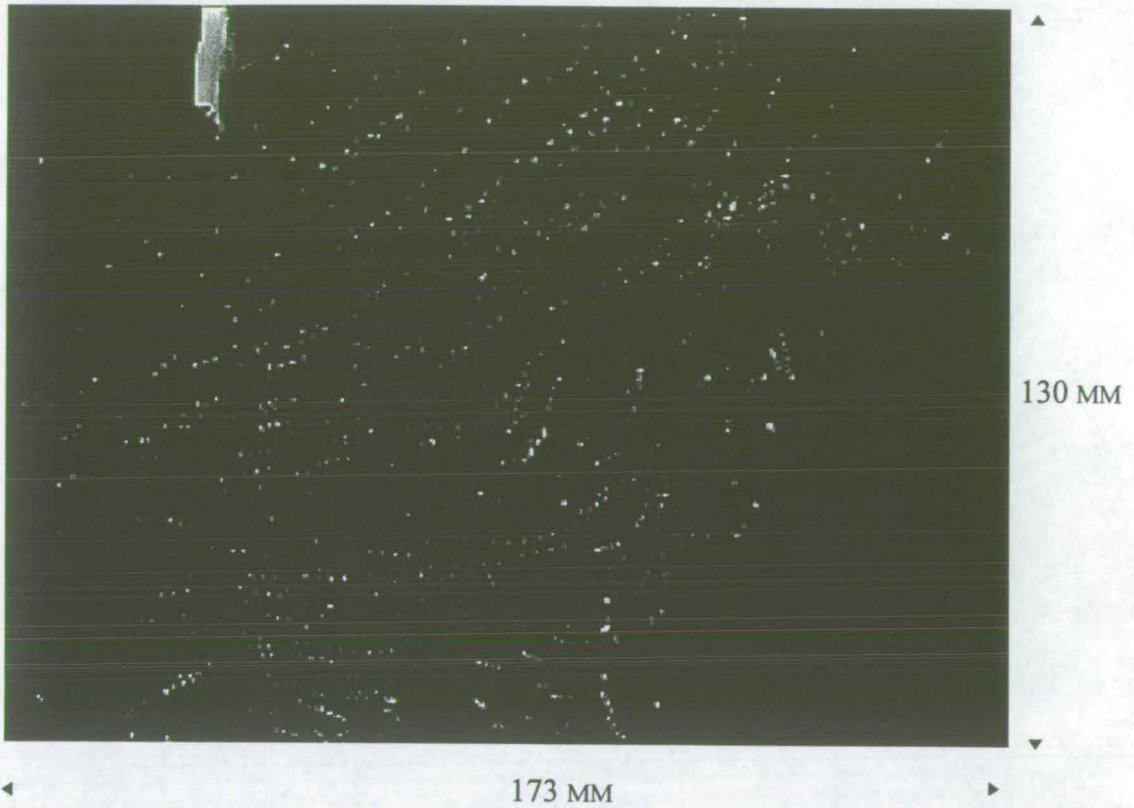
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 4

(REF.: D0W06)



ORIGINAL IMAGE

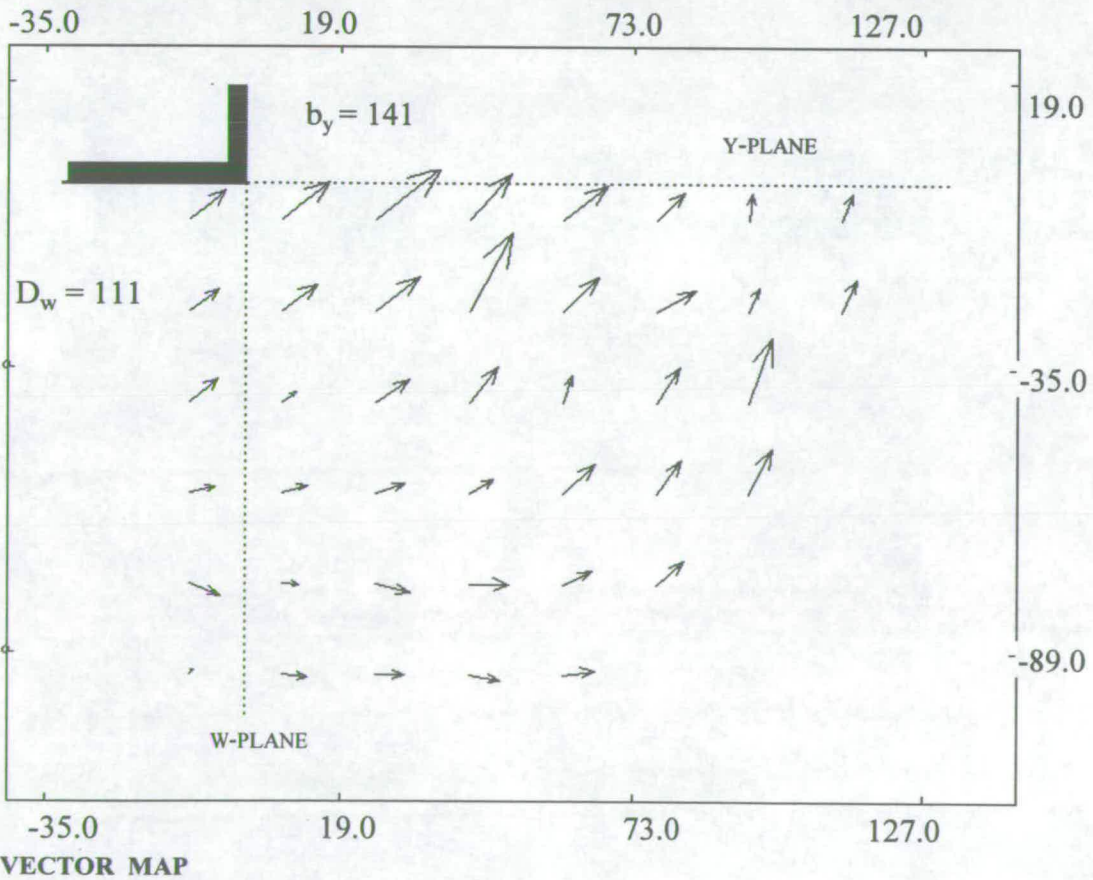
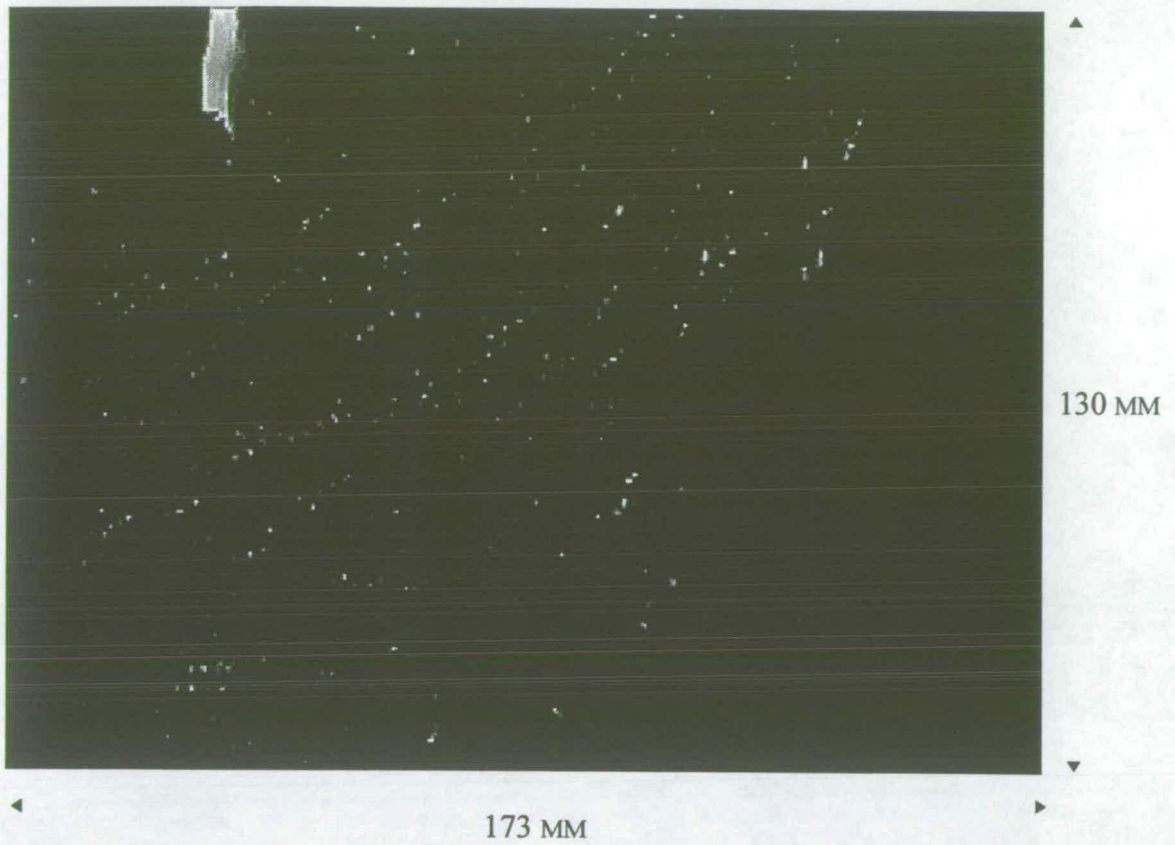
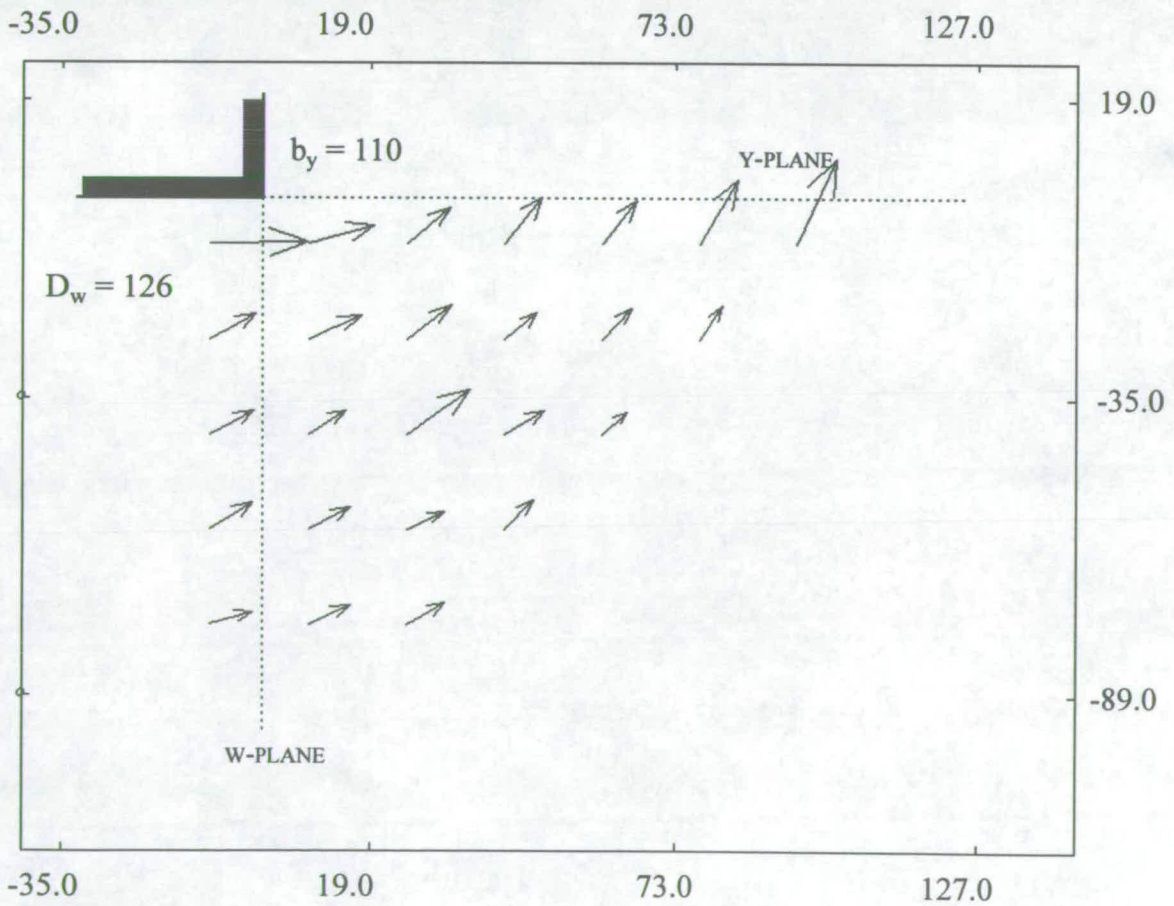


IMAGE NO. 6

(REF.: D0W08)



ORIGINAL IMAGE



VECTOR MAP

image 1		d0w01		velocity		velocity		noise
location	location	velocity	velocity	velocity	velocity	noise		
x	y	x	x	y	y	snr		
mm	mm	pixel/peric	m/s	pixel/peric	m/s			
-9.1	-6.9	5.662	0.612	-1.422	0.154	1.000		
8.2	-6.9	5.814	0.628	-2.957	0.319	1.496		
25.5	-6.9	6.883	0.743	-3.966	0.428	1.005		
42.8	-6.9	10.447	1.128	-5.463	0.590	1.205		
60.0	-6.9	5.087	0.549	-5.240	0.566	1.084		
77.3	-6.9	4.641	0.501	-4.402	0.475	1.024		
94.6	-6.9	5.999	0.648	-4.668	0.504	1.570		
111.9	-6.9	4.711	0.509	-3.445	0.372	1.243		
-9.1	-24.2	5.859	0.633	-0.078	0.008	1.335		
8.2	-24.2	5.189	0.560	-2.993	0.323	1.162		
25.5	-24.2	4.920	0.531	-3.741	0.404	1.185		
42.8	-24.2	5.532	0.598	-2.534	0.274	1.434		
60.0	-24.2	5.971	0.645	-3.190	0.345	1.843		
77.3	-24.2	5.280	0.570	-3.557	0.384	1.167		
94.6	-24.2	4.429	0.478	-1.236	0.134	1.699		
111.9	-24.2	3.626	0.392	-3.222	0.348	1.535		
-9.1	-41.5	4.976	0.537	-2.291	0.247	1.419		
8.2	-41.5	5.263	0.568	-2.004	0.216	1.248		
25.5	-41.5	4.885	0.528	-2.322	0.251	1.499		
42.8	-41.5	5.163	0.558	-2.639	0.285	1.398		
60.0	-41.5	4.996	0.540	-2.073	0.224	1.999		
77.3	-41.5	5.552	0.600	-2.352	0.254	1.278		
94.6	-41.5	4.471	0.483	-1.924	0.208	1.103		
111.9	-41.5	4.187	0.452	-2.233	0.241	1.304		
-9.1	-58.8	4.446	0.480	-1.641	0.177	1.494		
8.2	-58.8	4.961	0.536	-1.046	0.113	1.505		
25.5	-58.8	3.948	0.426	-1.278	0.138	1.249		
42.8	-58.8	4.906	0.530	-1.749	0.189	1.646		
60.0	-58.8	4.759	0.514	-1.834	0.198	1.489		
77.3	-58.8	3.664	0.396	-1.874	0.202	1.901		
94.6	-58.8	4.154	0.449	-1.637	0.177	1.058		
-9.1	-76.0	2.993	0.323	-0.748	0.081	1.453		
8.2	-76.0	3.605	0.389	-0.231	0.025	2.585		
25.5	-76.0	3.724	0.402	-0.277	0.030	1.800		
42.8	-76.0	4.259	0.460	-0.635	0.069	1.612		
60.0	-76.0	4.164	0.450	-1.197	0.129	1.581		
77.3	-76.0	4.424	0.478	-0.133	0.014	1.336		
94.6	-76.0	4.062	0.439	-0.847	0.092	1.323		
-9.1	-93.3	4.223	0.456	0.538	-0.058	1.197		
8.2	-93.3	3.875	0.418	0.273	-0.029	1.149		
25.5	-93.3	3.407	0.368	-0.001	0.000	1.180		
42.8	-93.3	4.024	0.435	1.207	-0.130	1.465		
60.0	-93.3	3.762	0.406	0.155	-0.017	1.510		
77.3	-93.3	3.292	0.356	0.685	-0.074	1.368		

image 2		d0w02		velocity		velocity		noise
location	location	velocity	velocity	velocity	velocity	noise		
x	y	x	x	y	y	snr		
mm	mm	pixel/peric	m/s	pixel/peric	m/s			
-9.1	-6.9	6.563	0.709	-1.841	0.199	2.889		
8.2	-6.9	6.257	0.676	-2.435	0.263	1.235		
25.5	-6.9	6.235	0.673	-3.568	0.385	1.521		
42.8	-6.9	4.590	0.496	-3.783	0.409	1.042		
60.0	-6.9	2.164	0.234	-5.072	0.548	1.281		
77.3	-6.9	0.813	0.088	-4.082	0.441	1.000		
94.6	-6.9	0.955	0.103	-5.853	0.632	1.000		
111.9	-6.9	1.493	0.161	-5.287	0.571	1.052		
-9.1	-24.2	7.432	0.803	-1.278	0.138	1.086		
8.2	-24.2	5.764	0.623	-1.883	0.203	1.000		
25.5	-24.2	7.457	0.805	-2.319	0.250	1.052		
42.8	-24.2	4.340	0.469	-3.603	0.389	1.459		
60.0	-24.2	4.083	0.441	-3.201	0.346	1.103		
77.3	-24.2	3.016	0.326	-4.408	0.476	1.746		
94.6	-24.2	2.409	0.260	-4.645	0.502	1.411		
-9.1	-41.5	5.316	0.574	0.240	-0.026	1.349		
8.2	-41.5	2.395	0.259	-2.244	0.242	1.565		
25.5	-41.5	3.306	0.357	-3.313	0.358	1.359		
42.8	-41.5	2.386	0.258	-3.207	0.346	1.325		
60.0	-41.5	2.617	0.283	-2.435	0.263	1.093		
77.3	-41.5	5.427	0.586	-3.434	0.371	1.000		
-9.1	-58.8	3.296	0.356	-1.818	0.196	1.000		
8.2	-58.8	3.245	0.350	-2.384	0.257	1.000		
25.5	-58.8	3.796	0.410	-3.074	0.332	1.334		
42.8	-58.8	2.832	0.306	-2.209	0.239	1.570		
60.0	-58.8	0.552	0.060	-2.502	0.270	1.000		
77.3	-58.8	5.797	0.626	1.512	-0.163	1.051		
-9.1	-76.0	1.795	0.194	-2.823	0.305	1.000		
8.2	-76.0	3.125	0.338	-2.511	0.271	1.011		
25.5	-76.0	3.684	0.398	-1.189	0.128	1.016		
42.8	-76.0	3.100	0.335	-1.415	0.153	1.000		
-9.1	-93.3	2.830	0.306	-2.664	0.288	1.114		
8.2	-93.3	3.484	0.376	-3.404	0.368	1.000		
25.5	-93.3	4.224	0.456	2.630	-0.284	1.072		
42.8	-93.3	3.615	0.390	-0.023	0.003	1.012		

image 3		d0w05					
location	location	velocity	velocity	velocity	velocity	noise	
x	y	x	x	y	y	snr	
pixel	pixel	pixel/peric	m/s	pixel/peric	m/s		
-9.1	6.9	4.895	0.529	-5.009	0.541	1.173	
8.2	6.9	5.695	0.615	-4.034	0.436	1	
25.5	6.9	6.343	0.685	-5.031	0.543	1.528	
42.8	6.9	5.296	0.572	-3.081	0.333	1	
60	6.9	4.064	0.439	-3.074	0.332	1.462	
77.3	6.9	1.298	0.14	-3.497	0.378	1	
-9.1	24.2	5.177	0.559	-2.212	0.239	1.352	
8.2	24.2	6.054	0.654	-2.37	0.256	1.361	
25.5	24.2	5.74	0.62	-5.153	0.556	1.532	
42.8	24.2	5.38	0.581	-2.383	0.257	1.189	
60	24.2	5.082	0.549	1.842	-0.199	1.042	
77.3	24.2	3.082	0.333	-2.845	0.307	1	
-9.1	41.5	3.746	0.405	-1.767	0.191	1.096	
8.2	41.5	3.535	0.382	-3.436	0.371	1.597	
-9.1	58.8	1.888	0.204	-3.26	0.352	1	
8.2	58.8	1.761	0.19	-2.444	0.264	1.472	
-9.1	76	1.156	0.125	0.885	-0.096	1	

image4		d0w06					
location	location	velocity	velocity	velocity	velocity	noise	
x	y	x	x	y	y	snr	
mm	mm	pixel/peric	m/s	pixel/peric	m/s		
-9.08	-6.92	7.334	0.792	0.392	-0.042	1.075	
8.2	-6.92	6.143	0.663	-1.87	0.202	1.181	
25.48	-6.92	5.128	0.554	-4.23	0.457	1.102	
42.76	-6.92	2.132	0.23	-4.949	0.535	1	
60.04	-6.92	1.057	0.114	-4.772	0.515	1	
77.32	-6.92	0.686	0.074	-4.736	0.511	1	
94.6	-6.92	0.66	0.071	-4.711	0.509	1	
-9.08	-24.2	5.882	0.635	-0.003	0	1.147	
8.2	-24.2	6.861	0.741	-2.105	0.227	1.392	
25.48	-24.2	4.36	0.471	-2.979	0.322	1.343	
42.76	-24.2	0.518	0.056	-4.625	0.499	1	
60.04	-24.2	0.037	0.004	-4.768	0.515	1	
77.32	-24.2	0.572	0.062	-4.659	0.503	1	
-9.08	-41.48	4.871	0.526	-0.747	0.081	1.707	
8.2	-41.48	5.409	0.584	-2.138	0.231	1.466	
25.48	-41.48	3.783	0.409	-2.14	0.231	1.575	
42.76	-41.48	1.774	0.192	-3.867	0.418	1	
60.04	-41.48	1.067	0.115	-4.128	0.446	1	
-9.08	-58.76	4.724	0.51	-1.142	0.123	1.807	
8.2	-58.76	4.976	0.537	-1.333	0.144	1.329	
25.48	-58.76	2.22	0.24	-1.331	0.144	1.236	
42.76	-58.76	2.36	0.255	-2.563	0.277	1.322	
60.04	-58.76	1.665	0.18	-3.4	0.367	1	
-9.08	-76.04	3.792	0.41	-0.015	0.002	1.643	
8.2	-76.04	3.527	0.381	0.708	-0.076	1.011	
25.48	-76.04	3.255	0.351	-0.468	0.051	1	
-9.08	-93.32	3.523	0.381	0.112	-0.012	1.043	
8.2	-93.32	3.114	0.336	0.196	-0.021	1.012	
25.48	-93.32	3.211	0.347	-0.054	0.006	1.053	

image5		d0w07		velocity	velocity	velocity	velocity	noise
location	location	velocity	velocity	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	y	y	snr
mm	mm	pixel/peric	m/s	pixel/peric	m/s	pixel/peric	m/s	
-9.08	-6.92	6.306	0.681	-3.677	0.397			1
8.2	-6.92	6.946	0.75	-5.091	0.55			1.795
25.48	-6.92	5.585	0.603	-6.161	0.665			1.315
42.76	-6.92	4.635	0.501	-5.116	0.552			1.115
60.04	-6.92	4.824	0.521	-5.049	0.545			1.347
77.32	-6.92	4.819	0.52	-3.855	0.416			1.378
94.6	-6.92	3.955	0.427	-2.281	0.246			1.052
111.88	-6.92	3.799	0.41	-1.878	0.203			1
-9.08	-24.2	6.302	0.681	-2.312	0.25			1.2
8.2	-24.2	5.454	0.589	-3.333	0.36			1.491
25.48	-24.2	4.575	0.494	-4.318	0.466			1.433
42.76	-24.2	2.527	0.273	-4.331	0.468			1
60.04	-24.2	3.183	0.344	-2.998	0.324			1.757
77.32	-24.2	3.673	0.397	-2.704	0.292			1.012
94.6	-24.2	3.041	0.328	-0.24	0.026			1.62
111.88	-24.2	3.621	0.391	-1.253	0.135			1
-9.08	-41.48	5.089	0.55	-1.941	0.21			1.302
8.2	-41.48	4.795	0.518	-2.046	0.221			1.664
25.48	-41.48	3.217	0.347	-2.155	0.233			1.628
42.76	-41.48	3.092	0.334	-2.003	0.216			1.452
60.04	-41.48	5.216	0.563	-2.403	0.26			1.378
77.32	-41.48	2.974	0.321	-3.857	0.417			1
94.6	-41.48	4.368	0.472	-1.592	0.172			1.047
111.88	-41.48	4.311	0.466	-0.969	0.105			1.098
-9.08	-58.76	4.791	0.517	-1.217	0.131			1.515
8.2	-58.76	4.342	0.469	-1.429	0.154			1.349
25.48	-58.76	3.774	0.408	-2.123	0.229			1.053
42.76	-58.76	4.633	0.5	-2.148	0.232			1.026
60.04	-58.76	3.417	0.369	-2.27	0.245			1.131
77.32	-58.76	7.585	0.819	-4.237	0.458			1.02
94.6	-58.76	5.988	0.647	0.961	-0.104			1.051
111.88	-58.76	5.314	0.574	-0.621	0.067			1.337
-9.08	-76.04	4.838	0.523	-0.702	0.076			1.626
8.2	-76.04	3.411	0.368	-3.835	0.414			1.994
25.48	-76.04	4.632	0.5	-2.09	0.226			1
42.76	-76.04	7.751	0.837	-2.058	0.222			1.218
60.04	-76.04	4.807	0.519	-2.298	0.248			1.036
77.32	-76.04	1.552	0.168	-2.713	0.293			1
94.6	-76.04	4.467	0.482	-1.525	0.165			1.087
-9.08	-93.32	4.227	0.457	1.091	-0.118			1.537
8.2	-93.32	3.966	0.428	-1.105	0.119			1.442
25.48	-93.32	3.589	0.388	-0.317	0.034			1.672
42.76	-93.32	2.874	0.31	-1.354	0.146			1.553
60.04	-93.32	5.295	0.572	-1.306	0.141			1.038
77.32	-93.32	3.827	0.413	-2.134	0.231			1.078
94.6	-93.32	3.878	0.419	-1.806	0.195			1.165

image6		d0w08		velocity		velocity		noise
location	location	velocity	velocity	velocity	velocity	noise		
x	y	x	x	y	y	snr		
mm	mm	pixel/peric	m/s	pixel/peric	m/s			
-9.1	-6.9	4.327	0.467	-3.26	0.352	1.016		
8.2	-6.9	5.394	0.583	-4.227	0.457	1.005		
25.5	-6.9	7.49	0.809	-5.952	0.643	1.25		
42.8	-6.9	4.711	0.509	-5.269	0.569	1.437		
60	-6.9	5.006	0.541	-3.909	0.422	1.2		
77.3	-6.9	3.187	0.344	-3.163	0.342	1.171		
94.6	-6.9	0.46	0.05	-3.029	0.327	1		
111.9	-6.9	1.177	0.127	-3.161	0.341	1.016		
-9.1	-24.2	3.387	0.366	-2.43	0.262	1		
8.2	-24.2	4.018	0.434	-2.948	0.318	1.029		
25.5	-24.2	5.071	0.548	-3.849	0.416	1.484		
42.8	-24.2	4.894	0.529	-9.115	0.984	1.371		
60	-24.2	4.051	0.438	-3.878	0.419	1.7		
77.3	-24.2	4.569	0.493	-2.417	0.261	1.28		
94.6	-24.2	1.233	0.133	-2.758	0.298	1		
111.9	-24.2	1.684	0.182	-3.808	0.411	1		
-9.1	-41.5	3.279	0.354	-2.551	0.276	1.335		
8.2	-41.5	1.791	0.193	-1.104	0.119	1.063		
25.5	-41.5	3.972	0.429	-2.501	0.27	1.478		
42.8	-41.5	3.291	0.355	-4.042	0.436	1.006		
60	-41.5	1.151	0.124	-3.097	0.334	1		
77.3	-41.5	2.749	0.297	-4.068	0.439	1.776		
94.6	-41.5	2.757	0.298	-7.545	0.815	1.513		
-9.1	-58.8	2.985	0.322	-0.571	0.062	1.027		
8.2	-58.8	3.114	0.336	-0.802	0.087	1.862		
25.5	-58.8	3.418	0.369	-1.088	0.118	1.145		
42.8	-58.8	2.814	0.304	-1.525	0.165	1.017		
60	-58.8	3.74	0.404	-3.425	0.37	1.605		
77.3	-58.8	2.921	0.315	-3.872	0.418	1		
94.6	-58.8	2.789	0.301	-5.182	0.56	1.07		
-9.1	-76	3.503	0.378	1.54	-0.166	1.285		
8.2	-76	2.02	0.218	0.192	-0.021	3.598		
25.5	-76	4.059	0.438	1.05	-0.113	1.44		
42.8	-76	4.663	0.504	0.023	-0.003	1.131		
60	-76	3.371	0.364	-1.55	0.167	1.262		
77.3	-76	3.298	0.356	-2.757	0.298	1.173		
-9.1	-93.3	0.518	0.056	-0.439	0.047	1.225		
8.2	-93.3	3.005	0.325	0.464	-0.05	1.694		
25.5	-93.3	3.356	0.362	0.138	-0.015	1.86		
42.8	-93.3	3.666	0.396	0.684	-0.074	1.441		
60	-93.3	3.706	0.4	-0.48	0.052	1		

image7		d0w10		velocity		velocity		noise
location	location	velocity	velocity	velocity	velocity			
x	y	x	x	y	y			snr
mm	mm	pixel/peric	m/s	pixel/peric	m/s			
-9.08	-6.92	10.641	1.149	-0.01	0.001			1.772
8.2	-6.92	7.038	0.76	-1.924	0.208			1.357
25.48	-6.92	4.677	0.505	-3.978	0.43			1.026
42.76	-6.92	4.159	0.449	-5.164	0.558			1.182
60.04	-6.92	3.734	0.403	-4.781	0.516			1.174
77.32	-6.92	4.285	0.463	-7.061	0.763			1.125
94.6	-6.92	4.44	0.48	-9.466	1.022			1.099
-9.08	-24.2	4.884	0.527	-2.714	0.293			1.32
8.2	-24.2	5.726	0.618	-2.604	0.281			1.032
25.48	-24.2	4.877	0.527	-3.745	0.404			1.213
42.76	-24.2	3.646	0.394	-2.855	0.308			1.141
60.04	-24.2	3.262	0.352	-3.401	0.367			1.663
77.32	-24.2	2.665	0.288	-3.772	0.407			1.286
-9.08	-41.48	4.756	0.514	-2.604	0.281			1.009
8.2	-41.48	4.027	0.435	-2.622	0.283			1.49
25.48	-41.48	6.974	0.753	-4.987	0.539			1.006
42.76	-41.48	4.465	0.482	-2.642	0.285			1.262
60.04	-41.48	2.767	0.299	-2.413	0.261			1.259
-9.08	-58.76	4.618	0.499	-2.94	0.318			1.218
8.2	-58.76	4.62	0.499	-2.349	0.254			1.043
25.48	-58.76	4.174	0.451	-1.957	0.211			1.52
42.76	-58.76	3.274	0.354	-3.195	0.345			1.059
-9.08	-76.04	4.665	0.504	-1.19	0.128			1.288
8.2	-76.04	4.543	0.491	-2.005	0.217			1.002
25.48	-76.04	4.289	0.463	-2.432	0.263			1.063

image8		d0w14		velocity		velocity		noise
location	location	velocity	velocity	velocity	velocity			
x	y	x	x	y	y			
mm	mm	pixel/peric	m/s	pixel/peric	m/s			snr
-9.08	-6.92	4.879	0.527	-1.833	0.198			1.179
8.2	-6.92	4.776	0.516	-2.949	0.318			1.018
25.48	-6.92	5.299	0.572	-4.127	0.446			1.328
42.76	-6.92	2.768	0.299	-5.38	0.581			1.627
60.04	-6.92	2.459	0.266	-5.468	0.591			1.403
77.32	-6.92	0.789	0.085	-4.714	0.509			1
-9.08	-24.2	5.087	0.549	0.17	-0.018			1.015
8.2	-24.2	4.388	0.474	-3.161	0.341			1.165
25.48	-24.2	4.19	0.453	-3.304	0.357			1.219
42.76	-24.2	2.889	0.312	-4.82	0.521			2.002
60.04	-24.2	2.257	0.244	-4.378	0.473			1
77.32	-24.2	2.138	0.231	-2.992	0.323			1
-9.08	-41.48	5.27	0.569	-1.818	0.196			1.844
8.2	-41.48	4.668	0.504	-1.599	0.173			1.549
25.48	-41.48	4.012	0.433	-2.516	0.272			1.351
42.76	-41.48	3.732	0.403	-3.644	0.394			1.213
60.04	-41.48	2.185	0.236	-4.083	0.441			1
77.32	-41.48	2.61	0.282	-3.833	0.414			1.179
-9.08	-58.76	4.407	0.476	-1.443	0.156			1.547
8.2	-58.76	4.931	0.533	-1.182	0.128			1.613
25.48	-58.76	3.939	0.425	-1.918	0.207			1.796
42.76	-58.76	2.339	0.253	-2.192	0.237			1
60.04	-58.76	1.898	0.205	-3.66	0.395			1
-9.08	-76.04	3.751	0.405	-0.594	0.064			1.331
8.2	-76.04	3.974	0.429	-0.77	0.083			1.152
25.48	-76.04	3.45	0.373	-0.849	0.092			2.165
42.76	-76.04	3.219	0.348	-0.914	0.099			1.873
60.04	-76.04	2.616	0.282	-2.131	0.23			1
-9.08	-93.32	3.526	0.381	1.098	-0.119			1.789
8.2	-93.32	3.612	0.39	0.048	-0.005			1.086
25.48	-93.32	3.347	0.361	0.487	-0.053			1.631
42.76	-93.32	3.286	0.355	-0.751	0.081			1.865

**Velocity Data for Images 1-8. Horizontal Velocities**  
**0 downstand; 660 long compartment**

x mm	y mm	velocity m/s								m/s mean
		image1	image2	image3	image4	image5	image6	image7	image8	
-9.1	6.9	0.612	0.709	0.529	0.792	0.681	0.467	1.149	0.527	0.683
-9.1	24.2	0.633	0.803	0.559	0.635	0.681	0.366	0.527	0.549	0.594
-9.1	41.5	0.537	0.574	0.405	0.526	0.550	0.354	0.514	0.569	0.504
-9.1	58.8	0.480	0.356	0.204	0.510	0.517	0.322	0.499	0.476	0.421
-9.1	76.0	0.323	0.194	0.125	0.410	0.523	0.378	0.504	0.405	0.358
-9.1	93.3	0.456	0.306	0.000	0.381	0.457	0.056	0.000	0.381	0.254

x mm	y mm	velocity m/s								m/s mean
		image1	image2	image3	image4	image5	image6	image7	image8	
8.2	6.9	0.628	0.676	0.615	0.663	0.750	0.583	0.760	0.516	0.649
8.2	24.2	0.560	0.623	0.654	0.741	0.589	0.434	0.618	0.474	0.587
8.2	41.5	0.568	0.259	0.382	0.584	0.518	0.193	0.435	0.504	0.430
8.2	58.8	0.536	0.350	0.190	0.537	0.469	0.336	0.499	0.533	0.431
8.2	76.0	0.389	0.338	0.000	0.381	0.368	0.218	0.491	0.429	0.327
8.2	93.3	0.418	0.376	0.000	0.336	0.428	0.325	0.000	0.390	0.284

x mm	y mm	velocity m/s								m/s mean
		image1	image2	image3	image4	image5	image6	image7	image8	
25.5	6.9	0.743	0.673	0.685	0.554	0.603	0.809	0.505	0.572	0.643
25.5	24.2	0.531	0.805	0.620	0.471	0.494	0.548	0.527	0.453	0.556
25.5	41.5	0.528	0.357	0.000	0.409	0.347	0.429	0.753	0.433	0.407
25.5	58.8	0.426	0.410	0.000	0.240	0.408	0.369	0.451	0.425	0.341
25.5	76.0	0.402	0.398	0.000	0.351	0.500	0.438	0.463	0.373	0.366
25.5	93.3	0.368	0.456	0.000	0.347	0.388	0.362	0.000	0.361	0.285

x mm	y mm	velocity m/s								m/s mean
		image1	image2	image3	image4	image5	image6	image7	image8	
42.8	6.9	1.128	0.496	0.572	0.230	0.501	0.509	0.449	0.299	0.523
42.8	24.2	0.598	0.469	0.581	0.056	0.273	0.529	0.394	0.312	0.401
42.8	41.5	0.558	0.258	0.000	0.192	0.334	0.355	0.482	0.403	0.323
42.8	58.8	0.530	0.306	0.000	0.255	0.500	0.304	0.354	0.253	0.313
42.8	76.0	0.460	0.335	0.000	0.000	0.837	0.504	0.000	0.348	0.310
42.8	93.3	0.435	0.390	0.000	0.000	0.310	0.396	0.000	0.355	0.236

x mm	y mm	velocity m/s								m/s mean
		image1	image2	image3	image4	image5	image6	image7	image8	
60.0	6.9	0.549	0.234	0.439	0.114	0.521	0.541	0.403	0.266	0.383
60.0	24.2	0.645	0.441	0.549	0.004	0.344	0.438	0.352	0.244	0.377
60.0	41.5	0.540	0.283	0.000	0.115	0.563	0.124	0.299	0.236	0.270
60.0	58.8	0.514	0.060	0.000	0.180	0.369	0.404	0.000	0.205	0.216
60.0	93.3	0.406	0.000	0.000	0.000	0.572	0.400	0.000	0.000	0.172
60.0	76.0	0.450	0.000	0.000	0.000	0.519	0.364	0.000	0.282	0.202

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
77.3	6.9	0.501	0.088	0.140	0.074	0.520	0.344	0.463	0.085	0.277
77.3	24.2	0.570	0.326	0.333	0.062	0.397	0.493	0.288	0.231	0.337
77.3	41.5	0.600	0.586	0.000	0.000	0.321	0.297	0.000	0.282	0.261
77.3	58.8	0.396	0.626	0.000	0.000	0.819	0.315	0.000	0.000	0.270
77.3	76.0	0.478	0.000	0.000	0.000	0.168	0.356	0.000	0.000	0.125
77.3	93.3	0.356	0.000	0.000	0.000	0.413	0.000	0.000	0.000	0.096

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
94.6	6.9	0.648	0.103	0.427	0.071	0.427	0.050	0.480	0.000	0.276
94.6	24.2	0.478	0.260	0.328	0.000	0.328	0.133	0.000	0.000	0.191
94.6	41.5	0.483	0.000	0.472	0.000	0.472	0.298	0.000	0.000	0.216
94.6	58.8	0.449	0.000	0.647	0.000	0.647	0.301	0.000	0.000	0.255
94.6	76.0	0.439	0.000	0.482	0.000	0.482	0.000	0.000	0.000	0.175
95.0	93.0	0.000	0.000	0.419	0.000	0.419	0.000	0.000	0.000	0.105

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
112.0	6.9	0.509	0.161	0.410	0.000	0.410	0.127	0.000	0.000	0.202
112.0	24.2	0.392	0.000	0.391	0.000	0.391	0.182	0.000	0.000	0.169
112.0	41.5	0.452	0.000	0.466	0.000	0.466	0.000	0.000	0.000	0.173
112.0	59.0	0.000	0.000	0.574	0.000	0.574	0.000	0.000	0.000	0.143

velocity at w-plane

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
0.0	6.9	0.620	0.692	0.572	0.728	0.716	0.525	0.955	0.521	0.666
0.0	24.2	0.597	0.713	0.606	0.688	0.635	0.400	0.573	0.512	0.590
0.0	41.5	0.553	0.416	0.393	0.555	0.534	0.274	0.474	0.537	0.467
0.0	58.8	0.508	0.353	0.197	0.524	0.493	0.329	0.499	0.504	0.426
0.0	76.0	0.356	0.266	0.062	0.395	0.445	0.298	0.497	0.417	0.342
0.0	93.3	0.437	0.341	0.000	0.358	0.442	0.190	0.000	0.385	0.269

Velocity Data for Images 1-8.

Vertical Velocities

location x mm	y mm	d0w01	image 1	image3	image4	image5	image6	image7	image8	mean velocity m/s
		image 2	d0w02	d0w05	d0w06	d0w07	d0w08	d0w10	d0w14	
-9.1	6.9	0.154	0.199	0.541	-0.042	0.397	0.352	0.001	0.198	0.225
-9.1	24.2	0.008	0.138	0.239	0.000	0.250	0.262	0.293	-0.018	0.147
-9.1	41.5	0.247	-0.026	0.191	0.081	0.210	0.276	0.281	0.196	0.182
-9.1	58.8	0.177	0.196	0.352	0.123	0.131	0.062	0.318	0.156	0.189
-9.1	76.0	0.081	0.305	-0.096	0.002	0.076	-0.166	0.128	0.064	0.049
-9.1	93.3	-0.058	0.288	0.000	-0.012	-0.118	0.047	0.000	-0.119	0.004

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
8.2	6.9	0.319	0.263	0.436	0.202	0.550	0.457	0.208	0.318	0.344
8.2	24.2	0.323	0.203	0.256	0.227	0.360	0.318	0.281	0.341	0.289
8.2	41.5	0.216	0.242	0.371	0.231	0.221	0.119	0.283	0.173	0.232
8.2	58.8	0.113	0.257	0.264	0.144	0.154	0.087	0.254	0.128	0.175
8.2	76.0	0.025	0.271	0.000	-0.076	0.414	-0.021	0.217	0.083	0.114
8.2	93.3	-0.029	0.368	0.000	-0.021	0.119	-0.050	0.000	-0.005	0.048

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
25.5	6.9	0.428	0.385	0.543	0.457	0.665	0.643	0.430	0.446	0.500
25.5	24.2	0.404	0.250	0.556	0.322	0.466	0.416	0.404	0.357	0.397
25.5	41.5	0.251	0.358	0.000	0.231	0.233	0.270	0.539	0.272	0.269
25.5	58.8	0.138	0.332	0.000	0.144	0.229	0.118	0.211	0.207	0.172
25.5	76.0	0.030	0.128	0.000	0.051	0.226	-0.113	0.263	0.092	0.084
25.5	93.3	0.000	-0.284	0.000	0.006	0.034	-0.015	0.000	-0.053	-0.039

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
42.8	6.9	0.590	0.409	0.333	0.535	0.552	0.569	0.558	0.581	0.516
42.8	24.2	0.274	0.389	0.257	0.499	0.468	0.984	0.308	0.521	0.463
42.8	41.5	0.285	0.346	0.000	0.418	0.216	0.436	0.285	0.394	0.298
42.8	58.8	0.189	0.239	0.000	0.277	0.232	0.165	0.345	0.237	0.210
42.8	76.0	0.069	0.153	0.000	0.000	0.222	-0.003	0.000	0.099	0.067
42.8	93.3	-0.130	0.003	0.000	0.000	0.146	-0.074	0.000	0.081	0.003

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
60.0	6.9	0.566	0.548	0.332	0.515	0.545	0.422	0.516	0.591	0.504
60.0	24.2	0.345	0.346	-0.199	0.515	0.324	0.419	0.367	0.473	0.324
60.0	41.5	0.224	0.263	0.000	0.446	0.260	0.334	0.261	0.441	0.279
60.0	58.8	0.198	0.270	0.000	0.367	0.245	0.370	0.000	0.395	0.231
60.0	93.3	-0.017	0.000	0.000	0.000	0.141	0.052	0.000	0.000	0.022
60.0	76.0	0.129	0.000	0.000	0.000	0.248	0.167	0.000	0.230	0.097

x mm	y mm	velocity m/s								mean m/s
		image 1	image 2	image3	image4	image5	image6	image7	image8	
77.3	6.9	0.475	0.441	0.378	0.511	0.416	0.342	0.763	0.509	0.479
77.3	24.2	0.384	0.476	0.307	0.503	0.292	0.261	0.407	0.323	0.369
77.3	41.5	0.254	0.371	0.000	0.000	0.417	0.439	0.000	0.414	0.237
77.3	58.8	0.202	-0.163	0.000	0.000	0.458	0.418	0.000	0.000	0.114
77.3	76.0	0.014	0.000	0.000	0.000	0.293	0.298	0.000	0.000	0.076
77.3	93.3	-0.074	0.000	0.000	0.000	0.231	0.000	0.000	0.000	0.020

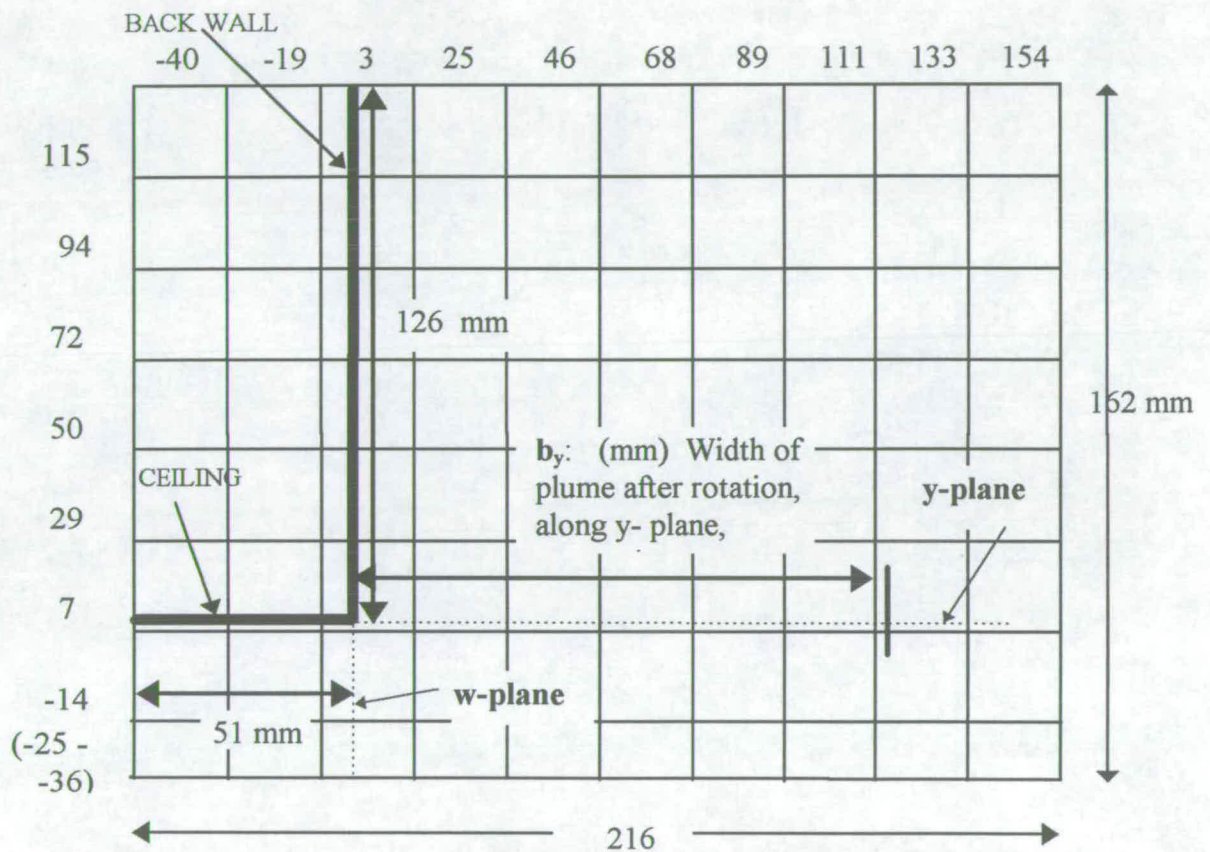
x mm	y mm	velocity m/s								mean m/s
		image1	image2	image3	image4	image5	image6	image7	image8	
94.6	6.9	0.504	0.632	0.246	0.509	0.246	0.327	1.022	0.000	0.436
94.6	24.2	0.134	0.502	0.026	0.000	0.026	0.298	0.000	0.000	0.123
94.6	41.5	0.208	0.000	0.172	0.000	0.172	0.815	0.000	0.000	0.171
94.6	58.8	0.177	0.000	-0.104	0.000	-0.104	0.560	0.000	0.000	0.066
94.6	76.0	0.092	0.000	0.165	0.000	0.165	0.000	0.000	0.000	0.053
95.0	93.0	0.000	0.000	0.195	0.000	0.195	0.000	0.000	0.000	0.049

x mm	y mm	velocity m/s								mean m/s
		image1	image2	image3	image4	image5	image6	image7	image8	
111.9	6.9	0.372	0.571	0.203	0.000	0.203	0.341	0.000	0.000	0.211
111.9	24.2	0.348	0.000	0.135	0.000	0.135	0.411	0.000	0.000	0.129
111.9	41.5	0.241	0.000	0.105	0.000	0.105	0.000	0.000	0.000	0.056
112.0	59.0	0.000	0.000	0.067	0.000	0.067	0.000	0.000	0.000	0.017

# IMAGES 9 TO 16:

## FLOW FROM FIRE COMPARTMENT (Y-PLANE)

660 mm long compartment; no downstand;  
no balcony; 4.61 kw heat source



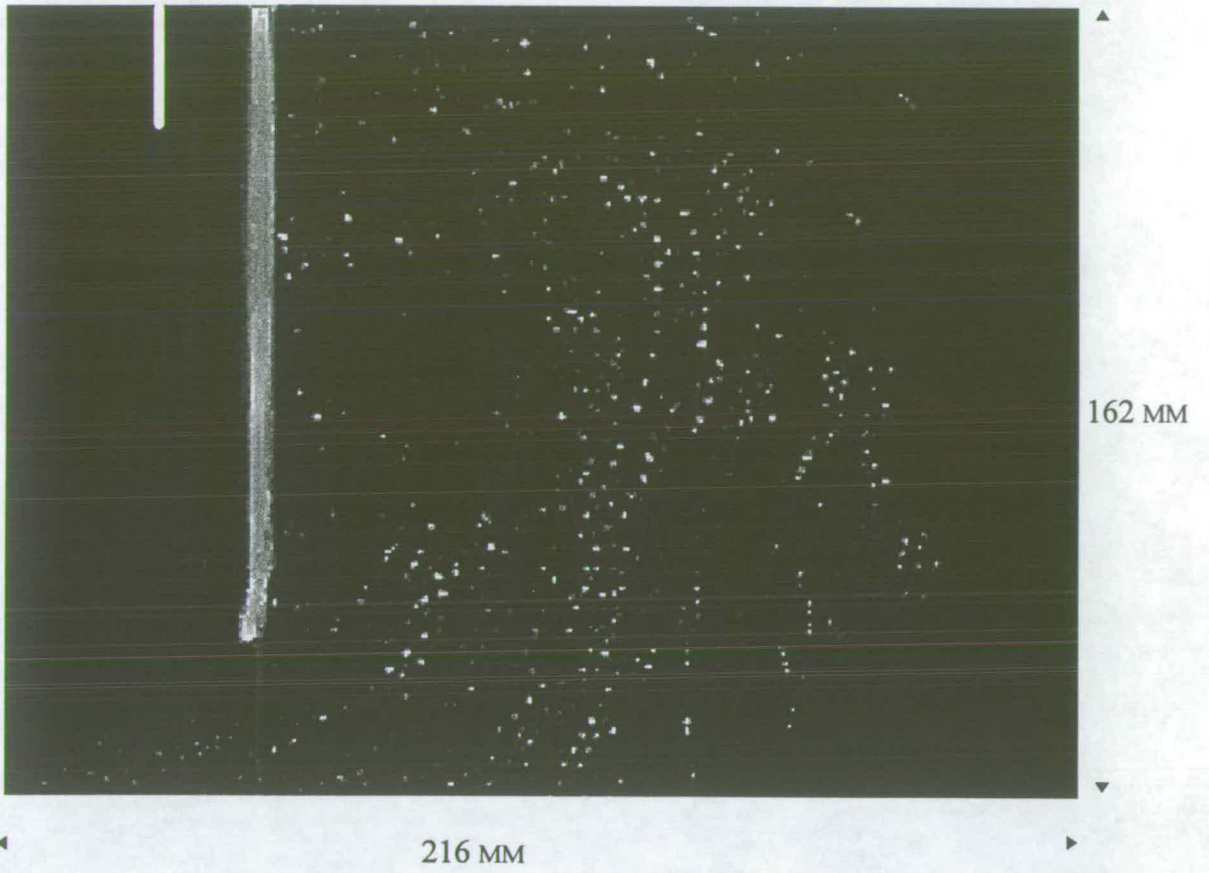
### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 9 - 16

Interrogation areas 21.6 mm x 21.6 mm.

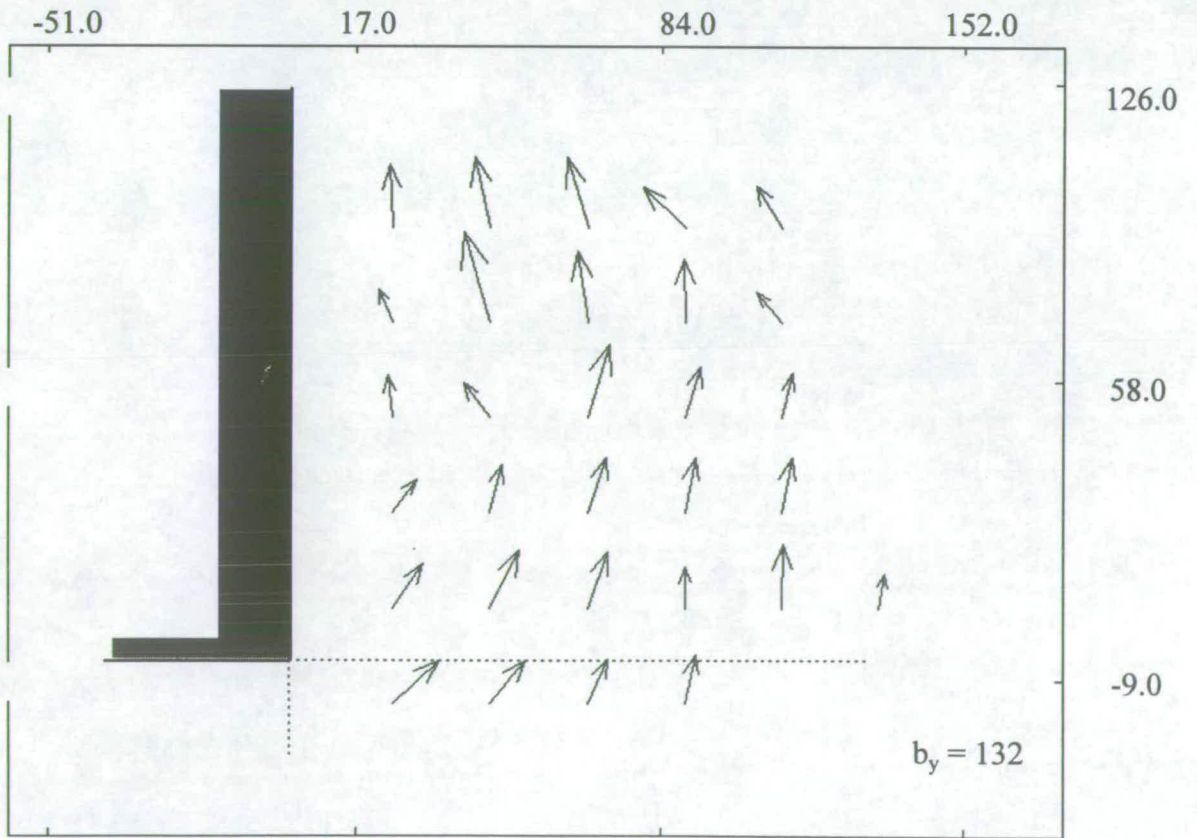
SCALE: 1 PIXEL = 0.675 MM

Image 16, data rejected. Only 7 images for this geometry.

File references: d0y02, d0y03, d0y04, d0y06, d0y07, d0y09, d0y10, (d0y11: data n/a)

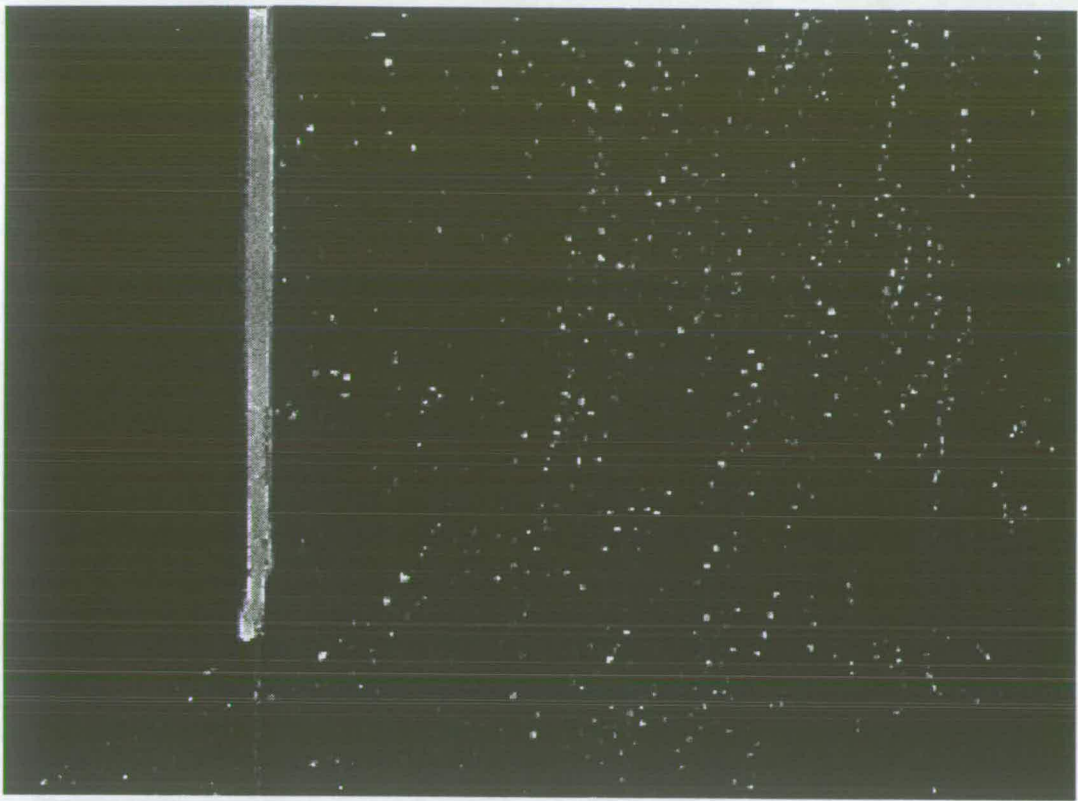


ORIGINAL IMAGE

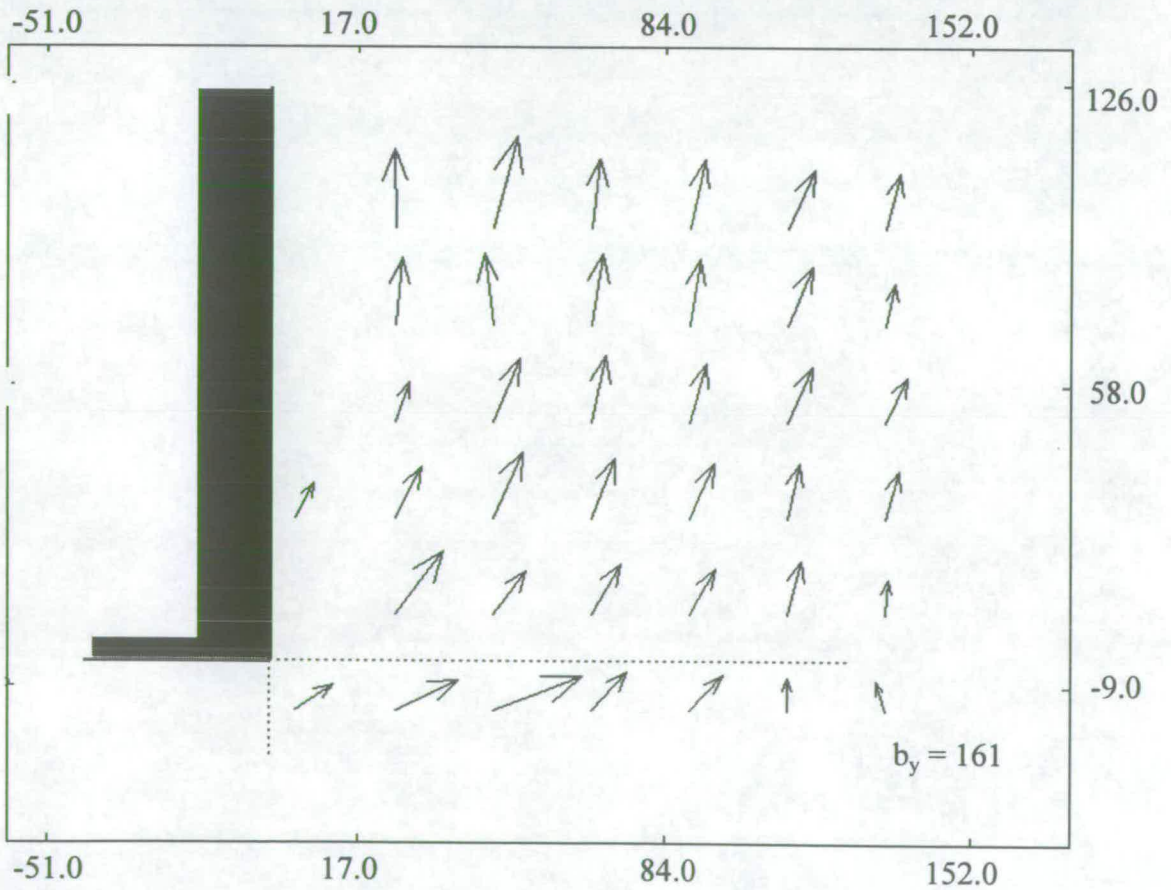


VECTOR MAP  
IMAGE NO. 9

(REF.: D0Y02)



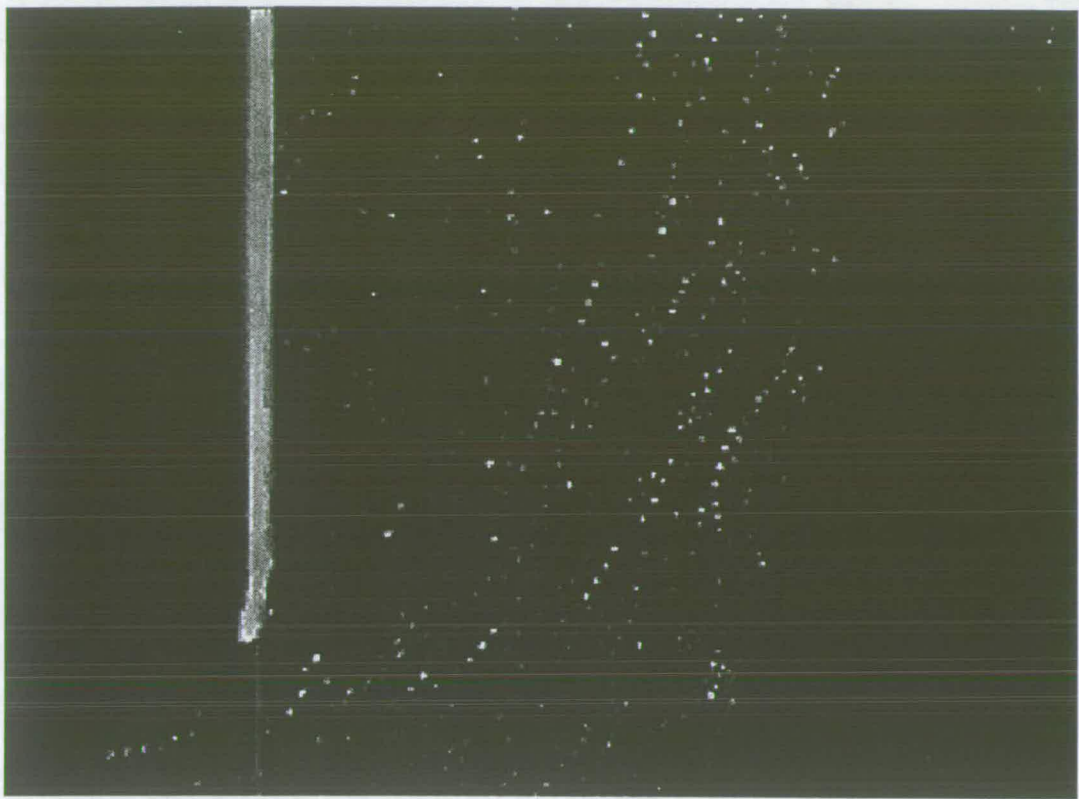
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 10

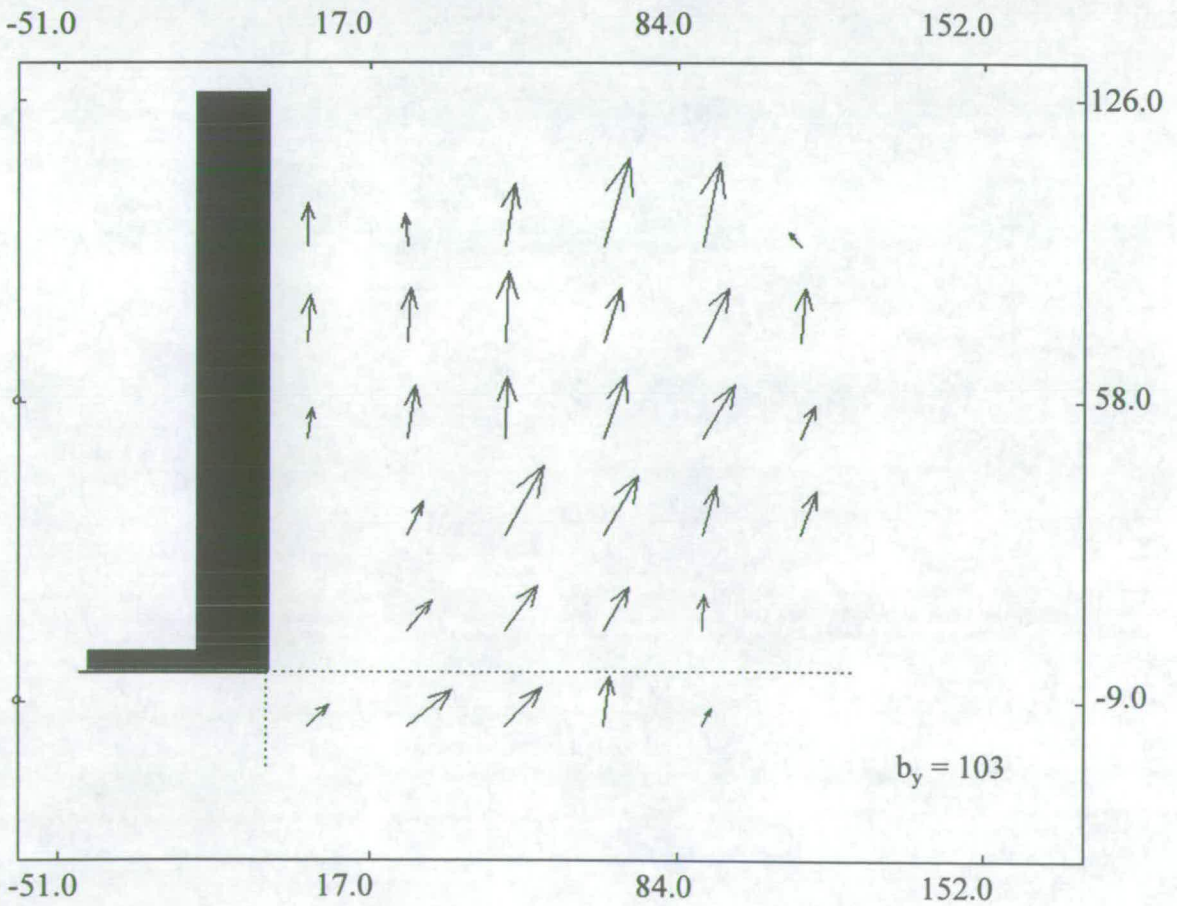
(REF.: D0Y03)



216 MM

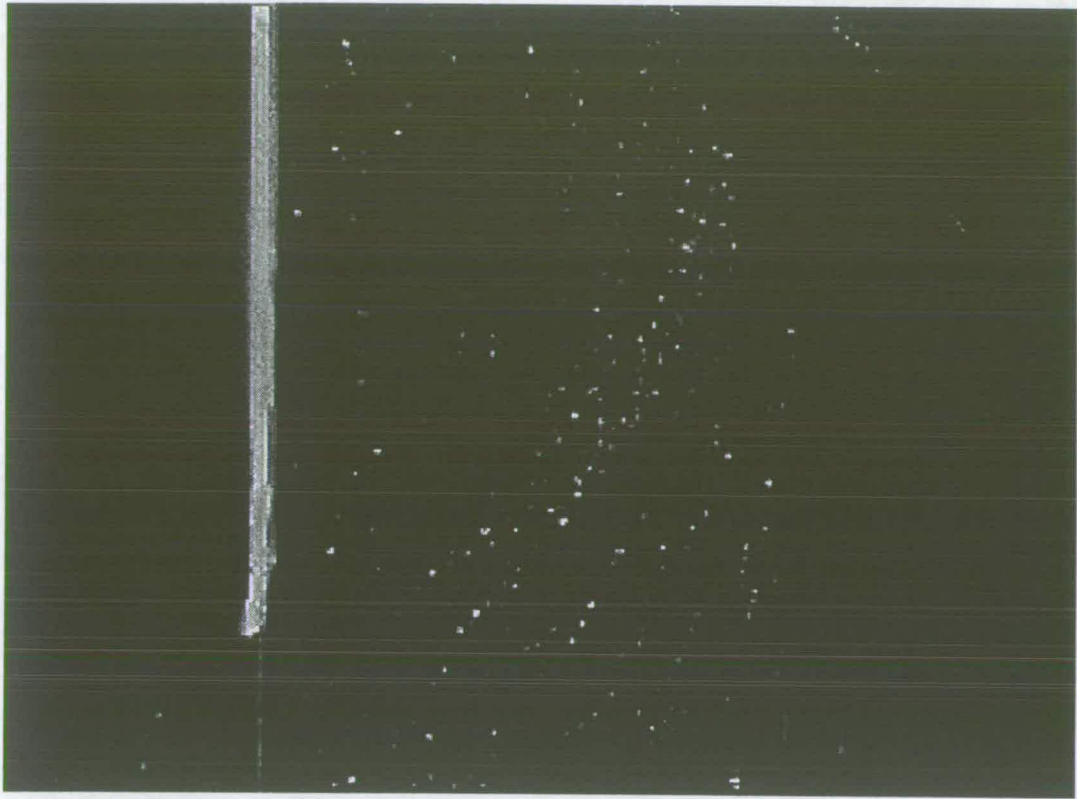
162 MM

ORIGINAL IMAGE

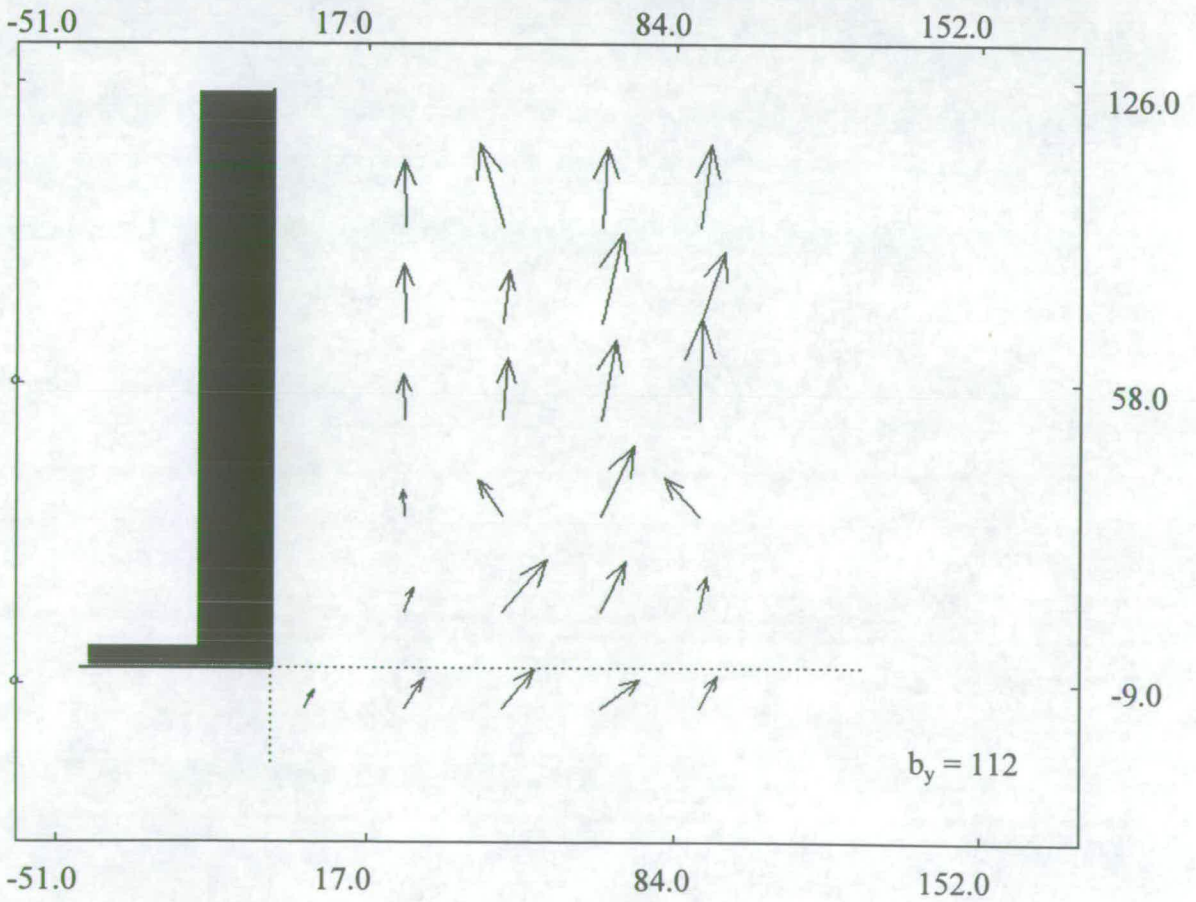


VECTOR MAP  
IMAGE NO. 11

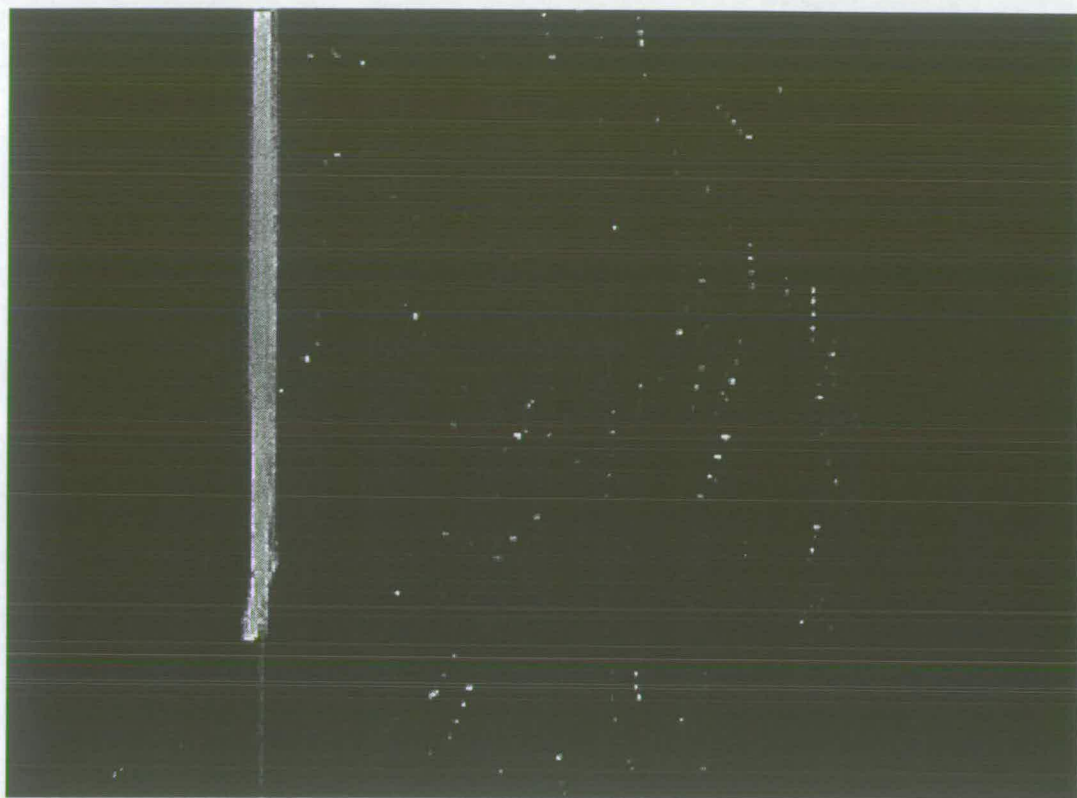
(REF.: D0Y04)



ORIGINAL IMAGE



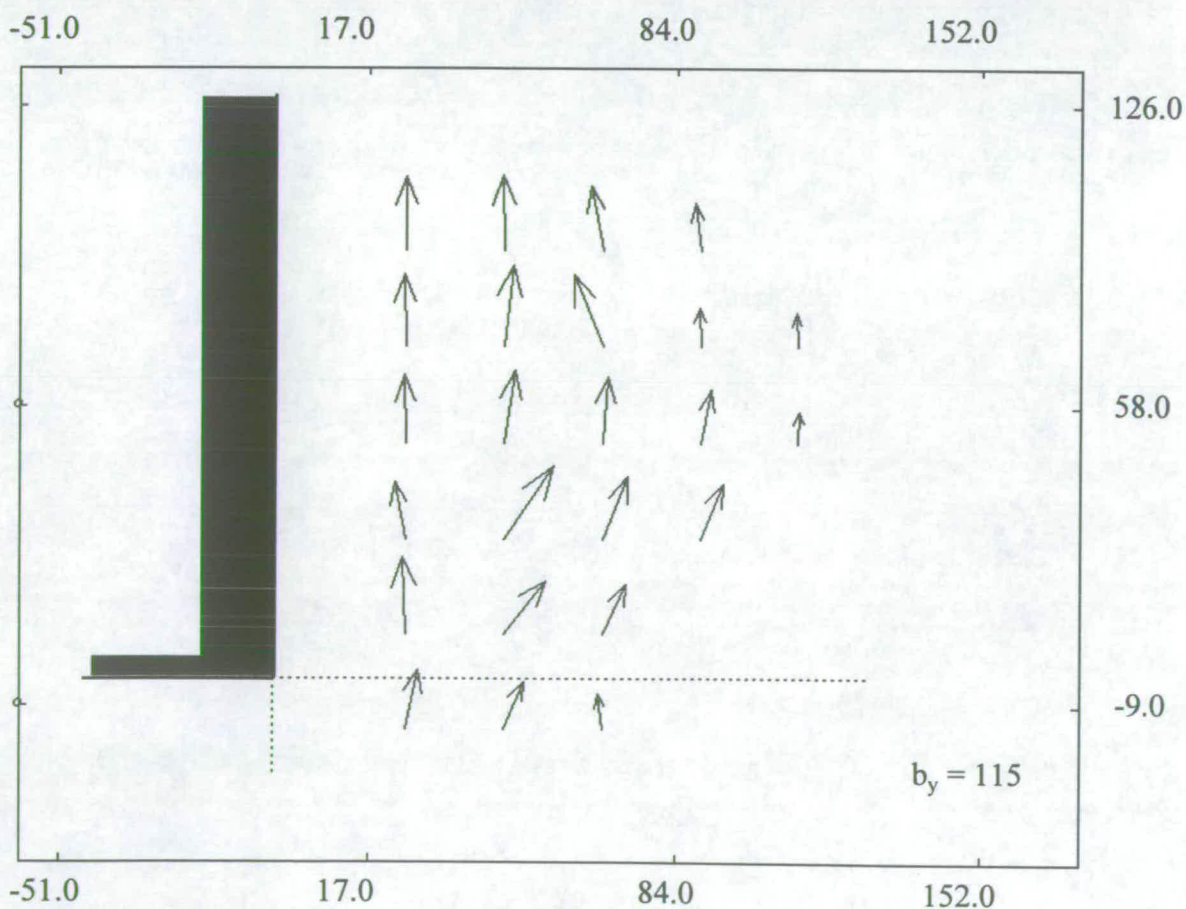
VECTOR MAP



216 MM

162 MM

**ORIGINAL IMAGE**



**VECTOR MAP  
IMAGE NO. 13**

(REF.: D0Y06)

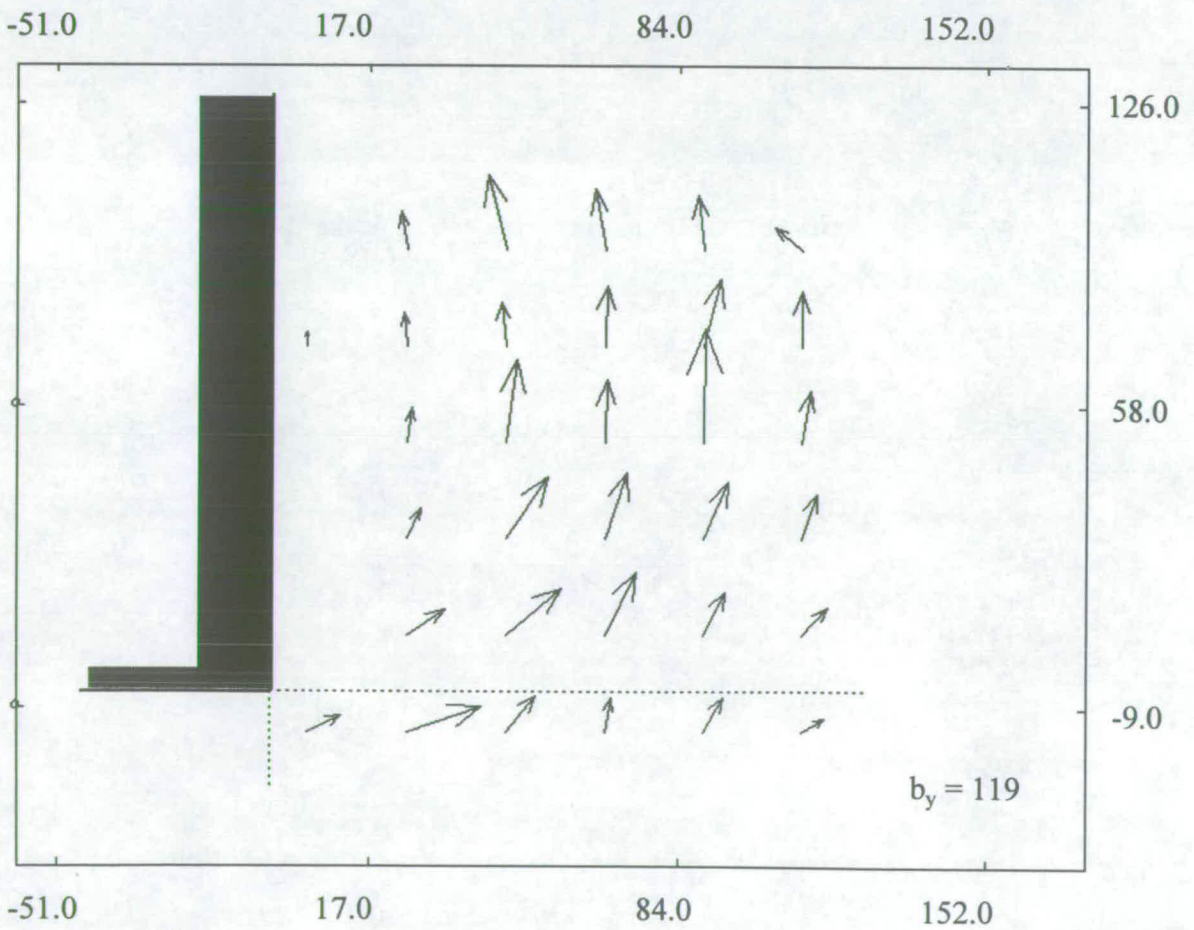
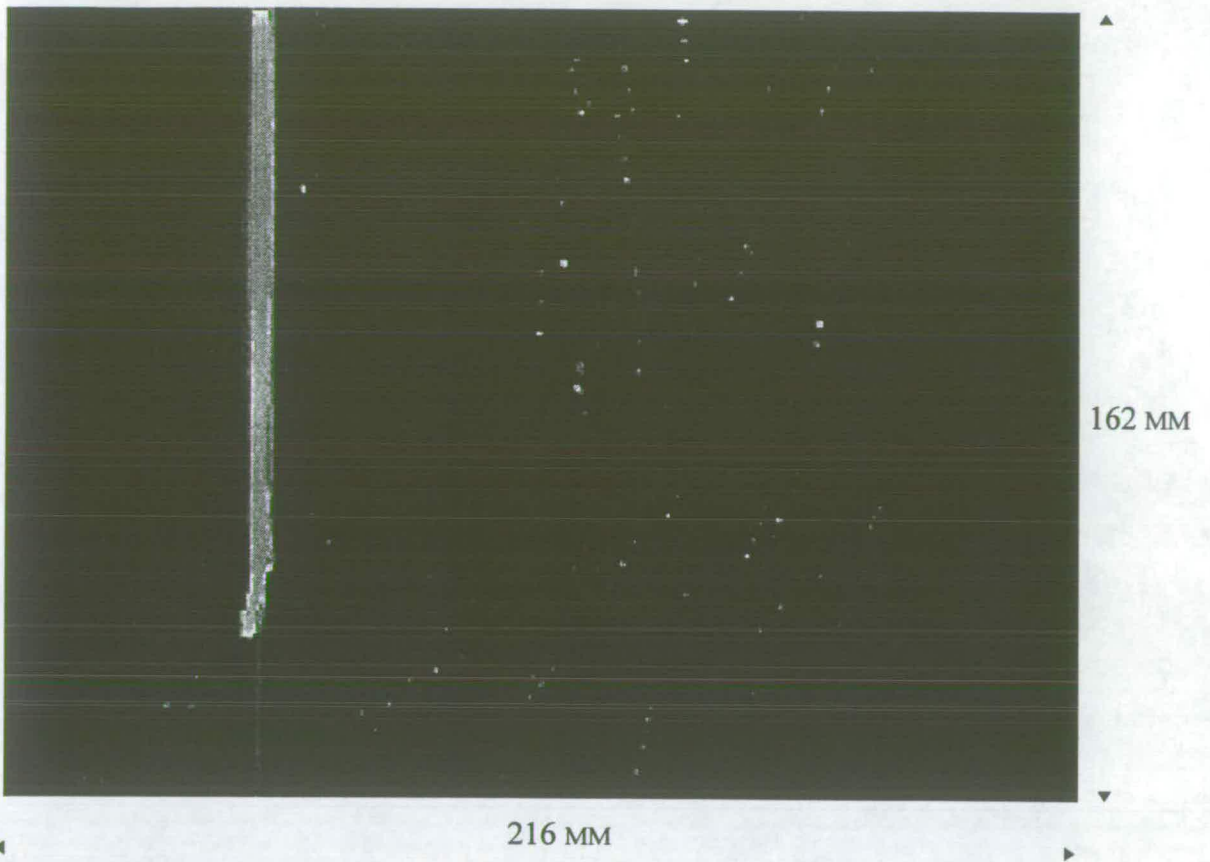
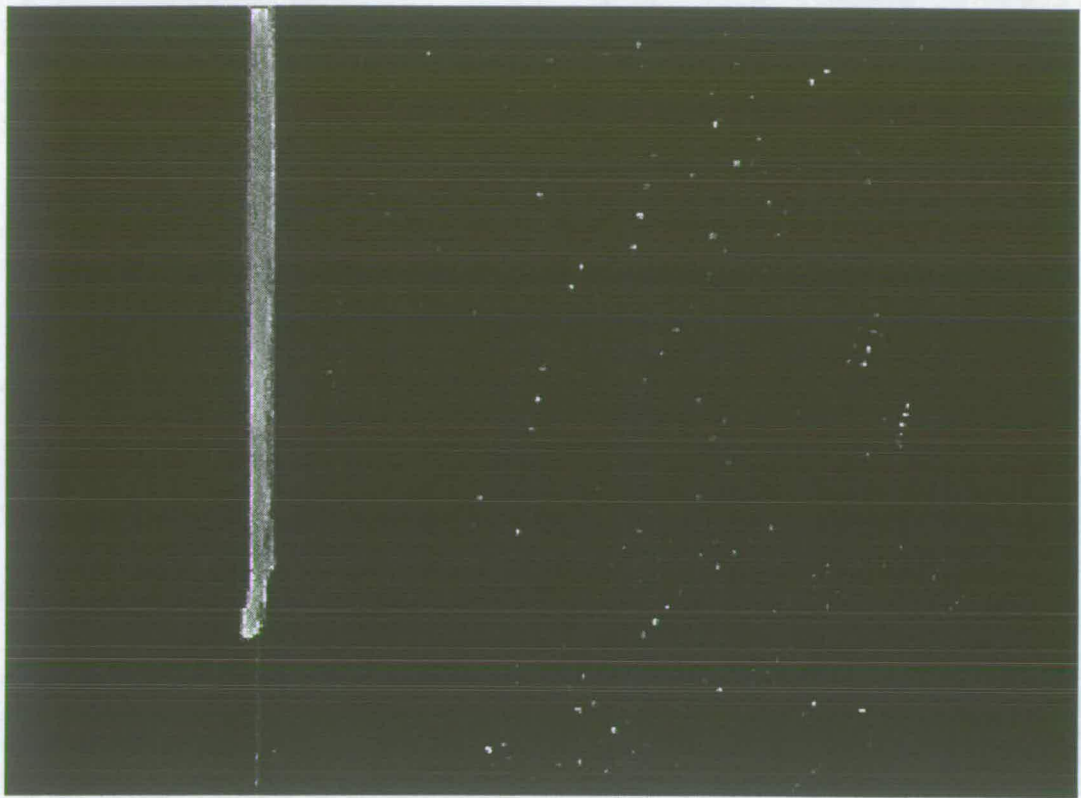


IMAGE NO. 14

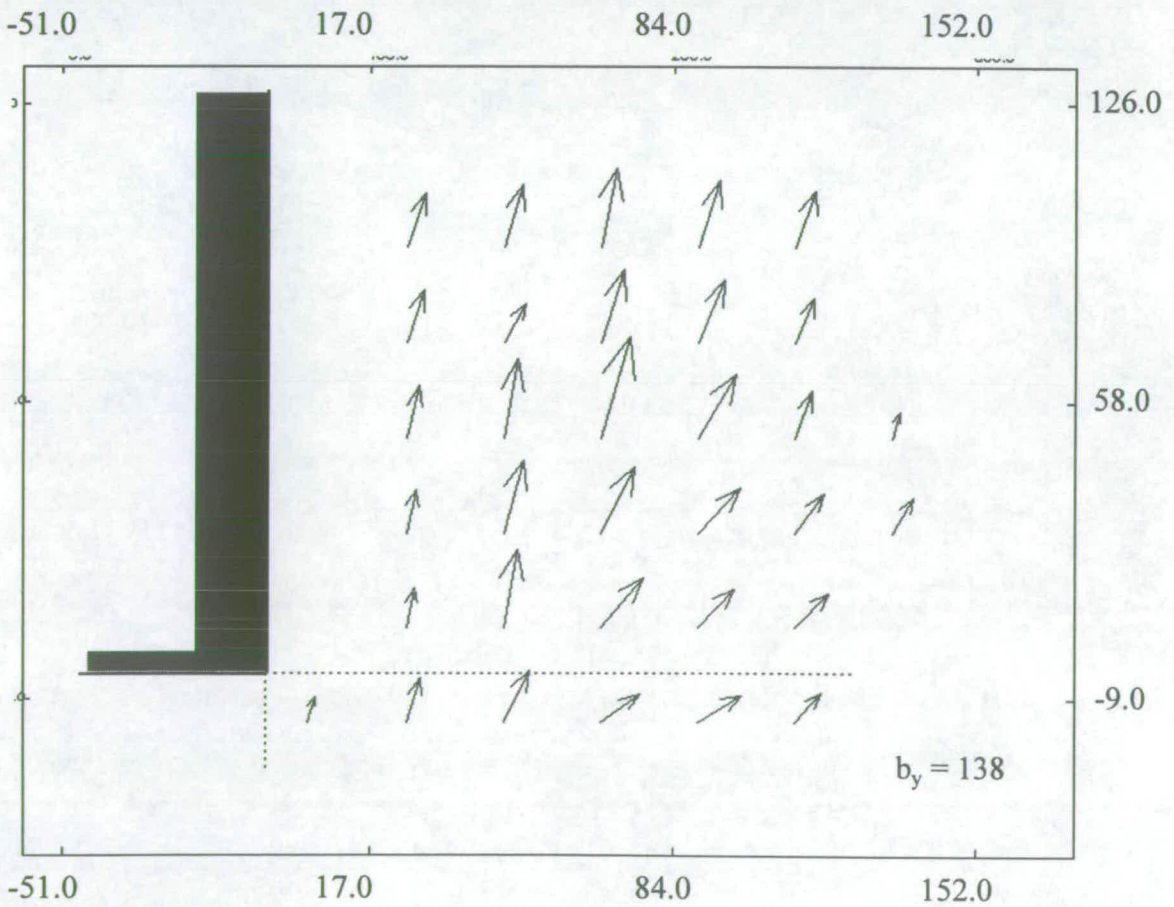
(REF.: D0Y09)



162 MM

216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE No. 15

(REF.: D0Y10)

image 9		dy02		velocity				snr		
location		location		velocity						
x	y	x	y	x	y	x	y			
mm	mm	mm	mm	pixel/	peric	m/s	pixel/	peric	m/s	snr
24.6	93.6	-0.169	-0.023	-6.941	0.937	1.000				
46.2	93.6	-1.573	-0.212	-7.720	1.042	1.103				
67.8	93.6	-2.220	-0.300	-7.765	1.048	1.000				
89.4	93.6	-4.570	-0.617	-4.341	0.586	1.336				
111.0	93.6	-2.747	-0.371	-4.661	0.629	1.082				
24.6	72.0	-1.334	-0.180	-3.647	0.492	1.000				
46.2	72.0	-2.671	-0.361	-10.165	1.372	1.334				
67.8	72.0	-1.032	-0.139	-7.876	1.063	1.124				
89.4	72.0	-0.051	-0.007	-7.095	0.958	1.000				
111.0	72.0	-2.711	-0.366	-3.468	0.468	1.407				
24.6	50.4	-0.483	-0.065	-4.547	0.614	1.000				
46.2	50.4	-2.720	-0.367	-3.720	0.502	1.000				
67.8	50.4	2.360	0.319	-8.023	1.083	1.084				
89.4	50.4	1.696	0.229	-5.508	0.744	1.000				
111.0	50.4	1.224	0.165	-4.880	0.659	1.000				
24.6	28.8	2.717	0.367	-3.520	0.475	1.013				
46.2	28.8	1.446	0.195	-5.235	0.707	1.093				
67.8	28.8	2.116	0.286	-6.107	0.824	1.000				
89.4	28.8	1.192	0.161	-6.053	0.817	1.000				
111.0	28.8	1.182	0.160	-6.084	0.821	1.000				
24.6	7.2	3.489	0.471	-4.905	0.662	1.014				
46.2	7.2	3.274	0.442	-6.374	0.860	1.332				
67.8	7.2	2.189	0.296	-6.172	0.833	1.000				
89.4	7.2	0.154	0.021	-4.640	0.626	1.000				
111.0	7.2	0.262	0.035	-7.151	0.965	1.000				
132.6	7.2	0.785	0.106	-3.782	0.511	1.000				
24.6	-14.4	5.179	0.699	-4.744	0.640	1.274				
46.2	-14.4	3.926	0.530	-4.748	0.641	1.583				
67.8	-14.4	2.279	0.308	-4.845	0.654	1.000				
89.4	-14.4	1.218	0.164	-5.359	0.723	1.000				

image 10 dy03

location		velocity				snr
x	y	x	y	x	y	
mm	mm	pixel/	peric	m/s	pixel/	peric
		m/s	m/s	m/s	m/s	
24.6	93.6	-0.088	-0.012	-8.552	1.155	1.000
46.2	93.6	2.653	0.358	-10.162	1.372	1.000
67.8	93.6	0.887	0.120	-7.568	1.022	1.000
89.4	93.6	1.684	0.227	-7.576	1.023	1.000
111.0	93.6	2.837	0.383	-6.449	0.871	1.127
132.6	93.6	1.630	0.220	-6.013	0.812	1.000
24.6	72.0	0.786	0.106	-7.233	0.976	1.000
46.2	72.0	-0.861	-0.116	-7.828	1.057	1.000
67.8	72.0	1.221	0.165	-7.755	1.047	1.000
89.4	72.0	1.224	0.165	-7.287	0.984	1.000
111.0	72.0	2.680	0.362	-6.396	0.864	1.588
132.6	72.0	1.158	0.156	-4.584	0.619	1.000
24.6	50.4	1.595	0.215	-4.202	0.567	1.000
46.2	50.4	2.835	0.383	-6.859	0.926	1.118
67.8	50.4	1.626	0.220	-7.249	0.979	1.000
89.4	50.4	1.890	0.255	-6.449	0.871	1.000
111.0	50.4	2.673	0.361	-6.087	0.822	1.433
132.6	50.4	2.386	0.322	-4.964	0.670	1.150
24.6	28.8	2.927	0.395	-5.522	0.745	1.224
46.2	28.8	3.189	0.431	-7.332	0.990	1.256
67.8	28.8	2.643	0.357	-6.566	0.886	1.000
89.4	28.8	2.817	0.380	-6.131	0.828	1.787
111.0	28.8	1.347	0.182	-6.067	0.819	1.000
132.6	28.8	1.539	0.208	-5.213	0.704	1.000
3.0	7.2	0.000	0.000	0.000	0.000	1.000
24.6	7.2	5.317	0.718	-6.859	0.926	1.741
46.2	7.2	3.653	0.493	-4.747	0.641	1.246
67.8	7.2	3.270	0.441	-5.601	0.756	1.036
89.4	7.2	2.887	0.390	-5.002	0.675	1.199
111.0	7.2	1.630	0.220	-5.987	0.808	1.000
132.6	7.2	0.347	0.047	-3.890	0.525	1.000
3.0	-14.4	4.092	0.552	-2.714	0.366	1.000
24.6	-14.4	6.913	0.933	-3.300	0.445	1.023
46.2	-14.4	9.799	1.323	-3.796	0.512	1.071
67.8	-14.4	3.981	0.537	-4.275	0.577	1.566
89.4	-14.4	3.747	0.506	-3.838	0.518	1.236
111.0	-14.4	0.110	0.015	-3.613	0.488	1.000
132.6	-14.4	-0.854	-0.115	-3.204	0.433	1.000

image 11 dy04

location		velocity				snr	
x	y	x	y	x	y		
mm	mm	pixel/peri	m/s	pixel/peri	m/s		
	3.0	93.6	0.117	0.016	-4.598	0.621	1.000
	24.6	93.6	-0.231	-0.031	-3.386	0.457	1.000
	46.2	93.6	1.045	0.141	-6.770	0.914	1.096
	67.8	93.6	2.700	0.365	-9.536	1.287	1.213
	89.4	93.6	1.849	0.250	-9.044	1.221	1.000
	111.0	93.6	-1.288	-0.174	-1.442	0.195	1.000
	3.0	72.0	0.363	0.049	-5.080	0.686	1.000
	24.6	72.0	0.425	0.057	-5.874	0.793	1.000
	46.2	72.0	0.358	0.048	-7.782	1.051	1.000
	67.8	72.0	1.979	0.267	-5.886	0.795	1.000
	89.4	72.0	2.854	0.385	-5.954	0.804	1.675
	111.0	72.0	0.600	0.081	-5.945	0.803	1.000
	3.0	50.4	0.632	0.085	-3.261	0.440	1.000
	24.6	50.4	0.927	0.125	-5.694	0.769	1.000
	46.2	50.4	0.315	0.043	-6.722	0.907	1.000
	67.8	50.4	2.469	0.333	-6.881	0.929	1.355
	89.4	50.4	3.627	0.490	-5.992	0.809	1.346
	111.0	50.4	1.666	0.225	-3.557	0.480	1.000
	3.0	28.8	0.000	0.000	0.000	0.000	1.000
	24.6	28.8	1.807	0.244	-3.557	0.480	1.442
	46.2	28.8	4.182	0.565	-7.661	1.034	1.050
	67.8	28.8	3.757	0.507	-6.349	0.857	1.121
	89.4	28.8	1.653	0.223	-5.409	0.730	1.000
	111.0	28.8	1.688	0.228	-4.693	0.634	1.153
	3.0	7.2	0.000	0.000	0.000	0.000	1.000
	24.6	7.2	2.678	0.362	-3.180	0.429	1.058
	46.2	7.2	3.566	0.481	-4.989	0.673	1.417
	67.8	7.2	2.792	0.377	-4.700	0.635	1.690
	89.4	7.2	0.214	0.029	-3.968	0.536	1.000
	3.0	-14.4	2.475	0.334	-2.194	0.296	1.000
	24.6	-14.4	4.982	0.673	-3.985	0.538	1.223
	46.2	-14.4	4.063	0.549	-4.185	0.565	1.728
	67.8	-14.4	0.811	0.110	-5.491	0.741	1.000
	89.4	-14.4	1.091	0.147	-1.878	0.254	1.000

image 12 dy06

location		velocity				snr
x	y	x	x	y	y	
mm	mm	pixel/peric	m/s	pixel/peric	m/s	
24.6	93.6	-0.058	-0.008	-7.217	0.974	1.000
46.2	93.6	-2.547	-0.344	-9.139	1.234	1.202
67.8	93.6	0.641	0.087	-8.813	1.190	1.153
89.4	93.6	1.285	0.173	-9.004	1.216	1.000
24.6	72.0	-0.056	-0.008	-6.426	0.867	1.000
46.2	72.0	0.753	0.102	-5.815	0.785	1.000
67.8	72.0	2.190	0.296	-9.983	1.348	1.000
89.4	72.0	2.806	0.379	-7.949	1.073	1.498
24.6	50.4	-0.067	-0.009	-4.907	0.662	1.000
46.2	50.4	0.608	0.082	-6.779	0.915	1.011
67.8	50.4	1.577	0.213	-8.804	1.189	1.070
89.4	50.4	0.196	0.026	-11.213	1.514	1.000
3.0	28.8	0.000	0.000	0.000	0.000	1.000
24.6	28.8	-0.018	-0.002	-2.824	0.381	1.000
46.2	28.8	-2.502	-0.338	-3.903	0.527	1.000
67.8	28.8	3.591	0.485	-7.728	1.043	1.350
89.4	28.8	-3.730	-0.504	-4.229	0.571	1.004
3.0	7.2	0.000	0.000	0.000	0.000	1.000
24.6	7.2	1.001	0.135	-2.638	0.356	1.047
46.2	7.2	4.987	0.673	-5.691	0.768	1.629
67.8	7.2	2.721	0.367	-5.661	0.764	1.197
89.4	7.2	0.869	0.117	-3.997	0.540	1.000
3.0	-14.4	1.160	0.157	-1.847	0.249	1.002
24.6	-14.4	2.227	0.301	-3.265	0.441	1.086
46.2	-14.4	3.525	0.476	-4.317	0.583	1.152
67.8	-14.4	4.332	0.585	-3.145	0.425	1.137
89.4	-14.4	2.064	0.279	-3.514	0.474	1.000

image 13 dy07

location		velocity				snr
x	y	x	x	y	y	
mm	mm	pixel/peri	m/s	pixel/peri	m/s	
24.6	93.6	0.139	0.019	-8.119	1.096	1.006
46.2	93.6	-0.072	-0.010	-8.248	1.113	1.000
67.8	93.6	-1.260	-0.170	-7.133	0.963	1.067
89.4	93.6	-0.626	-0.084	-5.190	0.701	1.006
24.6	72.0	-0.060	-0.008	-7.877	1.063	1.000
46.2	72.0	1.071	0.145	-8.961	1.210	1.000
67.8	72.0	-3.093	-0.418	-7.855	1.060	1.551
89.4	72.0	-0.166	-0.022	-4.272	0.577	1.000
111.0	72.0	-0.131	-0.018	-3.691	0.498	1.000
24.6	50.4	-0.068	-0.009	-7.477	1.009	1.000
46.2	50.4	1.250	0.169	-7.926	1.070	1.280
67.8	50.4	0.524	0.071	-7.283	0.983	1.000
89.4	50.4	1.287	0.174	-5.858	0.791	1.000
111.0	50.4	0.261	0.035	-3.428	0.463	1.000
24.6	28.8	-1.060	-0.143	-6.301	0.851	1.000
46.2	28.8	5.369	0.725	-8.012	1.082	1.184
67.8	28.8	2.830	0.382	-6.841	0.924	1.044
89.4	28.8	2.530	0.342	-6.068	0.819	1.000
24.6	7.2	-0.193	-0.026	-8.598	1.161	1.000
46.2	7.2	4.529	0.611	-5.900	0.797	1.207
67.8	7.2	2.589	0.350	-5.526	0.746	1.032
24.6	-14.4	1.416	0.191	-6.598	0.891	1.235
46.2	-14.4	2.244	0.303	-5.305	0.716	1.000
67.8	-14.4	-0.388	-0.052	-3.926	0.530	1.000

image 14 dy09

location		velocity				snr
x	y	x	x	y	y	
mm	mm	pixel/peric	m/s	pixel/peric	m/s	
3.0	93.6	0.000	0.000	0.000	0.000	1.000
24.6	93.6	-0.630	-0.085	-4.003	0.540	1.000
46.2	93.6	-1.931	-0.261	-8.057	1.088	1.000
67.8	93.6	-1.121	-0.151	-6.565	0.886	1.000
89.4	93.6	-0.578	-0.078	-5.872	0.793	1.452
111.0	93.6	-2.964	-0.400	-2.451	0.331	1.068
3.0	72.0	0.024	0.003	-1.474	0.199	1.000
46.2	72.0	-0.477	-0.064	-4.805	0.649	1.000
67.8	72.0	0.228	0.031	-6.656	0.899	1.281
89.4	72.0	1.891	0.255	-7.342	0.991	1.000
111.0	72.0	0.076	0.010	-6.059	0.818	1.146
3.0	50.4	0.000	0.000	0.000	0.000	1.000
24.6	50.4	0.655	0.088	-3.722	0.502	1.000
46.2	50.4	1.202	0.162	-9.096	1.228	1.000
67.8	50.4	0.194	0.026	-6.847	0.924	1.000
89.4	50.4	0.214	0.029	-12.631	1.705	1.000
111.0	50.4	1.014	0.137	-5.668	0.765	1.000
3.0	28.8	0.000	0.000	0.000	0.000	1.000
24.6	28.8	1.544	0.208	-3.221	0.435	1.000
46.2	28.8	4.585	0.619	-6.691	0.903	1.003
67.8	28.8	2.474	0.334	-7.231	0.976	1.012
89.4	28.8	2.752	0.371	-6.182	0.835	1.025
111.0	28.8	1.764	0.238	-4.927	0.665	1.000
3.0	7.2	0.000	0.000	0.000	0.000	1.000
24.6	7.2	4.175	0.564	-2.815	0.380	1.054
46.2	7.2	6.136	0.828	-5.155	0.696	1.031
67.8	7.2	3.351	0.452	-6.846	0.924	1.460
89.4	7.2	2.445	0.330	-4.806	0.649	1.000
111.0	7.2	2.895	0.391	-3.116	0.421	1.271
3.0	-14.4	3.803	0.513	-1.694	0.229	1.000
24.6	-14.4	8.035	1.085	-2.825	0.381	1.578
46.2	-14.4	3.228	0.436	-3.932	0.531	1.264
67.8	-14.4	0.682	0.092	-3.763	0.508	1.000
89.4	-14.4	2.196	0.296	-3.705	0.500	1.030
111.0	-14.4	2.652	0.358	-1.431	0.193	1.430

image 15 dy10

location		velocity				snr
x	y	x	y	x	y	
mm	mm	pixel/peri	m/s	pixel/peri	m/s	
24.6	93.6	2.084	0.281	-5.939	0.802	1.000
46.2	93.6	2.150	0.290	-6.886	0.930	1.115
67.8	93.6	1.768	0.239	-8.750	1.181	1.000
89.4	93.6	2.405	0.325	-7.386	0.997	1.026
111.0	93.6	2.323	0.314	-6.330	0.855	1.000
24.6	72.0	1.850	0.250	-5.695	0.769	1.000
46.2	72.0	2.377	0.321	-4.217	0.569	1.002
67.8	72.0	2.582	0.349	-8.018	1.082	1.076
89.4	72.0	2.841	0.384	-6.904	0.932	1.000
111.0	72.0	2.136	0.288	-4.852	0.655	1.000
24.6	50.4	1.421	0.192	-5.682	0.767	1.000
46.2	50.4	1.633	0.220	-8.677	1.171	1.000
67.8	50.4	3.317	0.448	-11.236	1.517	1.183
89.4	50.4	4.184	0.565	-7.012	0.947	1.108
111.0	50.4	1.979	0.267	-5.173	0.698	1.000
132.6	50.4	0.872	0.118	-2.977	0.402	1.000
3.0	28.8	0.000	0.000	0.000	0.000	1.000
24.6	28.8	1.086	0.147	-4.751	0.641	1.279
46.2	28.8	2.170	0.293	-8.104	1.094	1.000
67.8	28.8	3.774	0.509	-7.429	1.003	1.045
89.4	28.8	4.706	0.635	-5.022	0.678	1.209
111.0	28.8	3.272	0.442	-4.432	0.598	1.092
132.6	28.8	2.431	0.328	-3.991	0.539	1.000
3.0	7.2	0.000	0.000	0.000	0.000	1.000
24.6	7.2	0.945	0.128	-4.407	0.595	1.012
46.2	7.2	1.628	0.220	-8.779	1.185	1.000
67.8	7.2	4.722	0.637	-5.535	0.747	1.056
89.4	7.2	4.093	0.553	-4.282	0.578	1.473
111.0	7.2	3.820	0.516	-3.803	0.513	1.630
3.0	-14.4	0.877	0.118	-2.793	0.377	1.000
24.6	-14.4	1.568	0.212	-4.860	0.656	1.062
46.2	-14.4	2.914	0.393	-5.739	0.775	1.000
67.8	-14.4	4.371	0.590	-3.048	0.412	1.433
89.4	-14.4	4.977	0.672	-2.996	0.404	1.003
111.0	-14.4	2.886	0.390	-3.216	0.434	1.040

NO DATA FOR IMAGE 16

**Velocity Data for Images 9-16. Vertical Velocities (m/s)**

**0 Downstand: 660 long compartment**

y	x	dy02	dy03	dy04	dy06	dy07	dy09	dy10	mean
mm	mm	lm9	lm10	lm11	lm12	lm13	lm14	lm15	
93.6	3.0	0.000	0.000	0.621	0.000	0.000	0.000	0.000	0.089
93.6	24.6	0.937	1.155	0.457	0.974	1.096	0.540	0.802	0.852
93.6	46.2	1.042	1.372	0.914	1.234	1.113	1.088	0.930	1.099
93.6	67.8	1.048	1.022	1.287	1.190	0.963	0.886	1.181	1.082
93.6	89.4	0.586	1.023	1.221	1.216	0.701	0.793	0.997	0.934
93.6	111.0	0.629	0.871	0.195	0.000	0.000	0.331	0.855	0.411
93.6	132.6	0.000	0.812	0.000	0.000	0.000	0.000	0.000	0.116

location		lm9	lm10	lm11	lm12	lm13	lm14	lm15	mean
72.0	3.0	0.000	0.000	0.686	0.000	0.000	0.199	0.000	0.126
72.0	24.6	0.492	0.976	0.793	0.867	1.063	0.490	0.769	0.779
72.0	46.2	1.372	1.057	1.051	0.785	1.210	0.649	0.569	0.956
72.0	67.8	1.063	1.047	0.795	1.348	1.060	0.899	1.082	1.042
72.0	89.4	0.958	0.984	0.804	1.073	0.577	0.991	0.932	0.903
72.0	111.0	0.468	0.864	0.803	0.000	0.498	0.818	0.655	0.586
72.0	132.6	0.000	0.619	0.000	0.000	0.000	0.000	0.000	0.088

location		lm9	lm10	lm11	lm12	lm13	lm14	lm15	mean
50.4	3.0	0.000	0.000	0.440	0.000	0.000	0.000	0.000	0.063
50.4	24.6	0.614	0.567	0.769	0.662	1.009	0.502	0.767	0.699
50.4	46.2	0.502	0.926	0.907	0.915	1.070	1.228	1.171	0.960
50.4	67.8	1.083	0.979	0.929	1.189	0.983	0.924	1.517	1.086
50.4	89.4	0.744	0.871	0.809	1.514	0.791	1.705	0.947	1.054
50.4	111.0	0.659	0.822	0.480	0.000	0.463	0.765	0.698	0.555
50.4	132.6	0.000	0.670	0.000	0.000	0.000	0.000	0.402	0.153

location		lm9	lm10	lm11	lm12	lm13	lm14	lm15	mean
28.8	3.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28.8	24.6	0.475	0.745	0.480	0.381	0.851	0.435	0.641	0.573
28.8	46.2	0.707	0.990	1.034	0.527	1.082	0.903	1.094	0.905
28.8	67.8	0.824	0.886	0.857	1.043	0.924	0.976	1.003	0.931
28.8	89.4	0.817	0.828	0.730	0.571	0.819	0.835	0.678	0.754
28.8	111.0	0.821	0.819	0.634	0.000	0.000	0.665	0.598	0.505
28.8	132.6	0.000	0.704	0.000	0.000	0.000	0.000	0.539	0.178

location		lm9	lm10	lm11	lm12	lm13	lm14	lm15	mean
7.2	3.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7.2	24.6	0.662	0.926	0.429	0.356	1.161	0.380	0.595	0.644
7.2	46.2	0.860	0.641	0.673	0.768	0.797	0.696	1.185	0.803
7.2	67.8	0.833	0.756	0.635	0.764	0.746	0.924	0.747	0.772
7.2	89.4	0.626	0.675	0.536	0.540	0.000	0.649	0.578	0.515
7.2	111.0	0.965	0.808	0.000	0.000	0.000	0.421	0.513	0.387
7.2	132.6	0.511	0.525	0.000	0.000	0.000	0.000	0.000	0.148

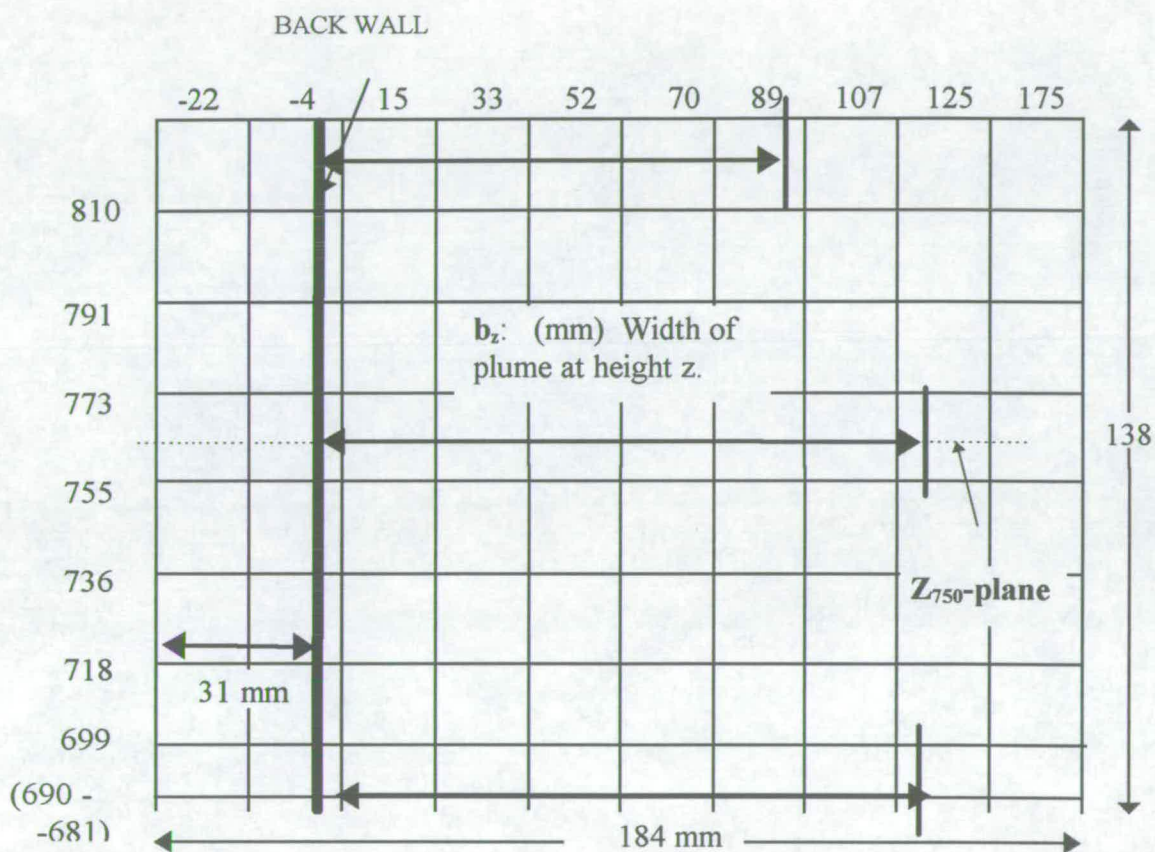
location		lm9	lm10	lm11	lm12	lm13	lm14	lm15	mean
-14.4	3.0	0.000	0.366	0.296	0.249	0.000	0.229	0.377	0.217
-14.4	24.6	0.640	0.445	0.538	0.441	0.891	0.381	0.656	0.570
-14.4	46.2	0.641	0.512	0.565	0.583	0.716	0.531	0.775	0.618
-14.4	67.8	0.654	0.577	0.741	0.425	0.530	0.508	0.412	0.550
-14.4	89.4	0.723	0.518	0.254	0.474	0.000	0.500	0.404	0.410
-14.4	111.0	0.000	0.488	0.000	0.000	0.000	0.193	0.434	0.159
-14.4	132.6	0.000	0.433	0.000	0.000	0.000	0.000	0.000	0.062



# IMAGES 17 TO 24:

## FLOW FROM FIRE COMPARTMENT (Z-PLANE)

660 mm long compartment; no downstand;  
no balcony; 4.61 kw heat source

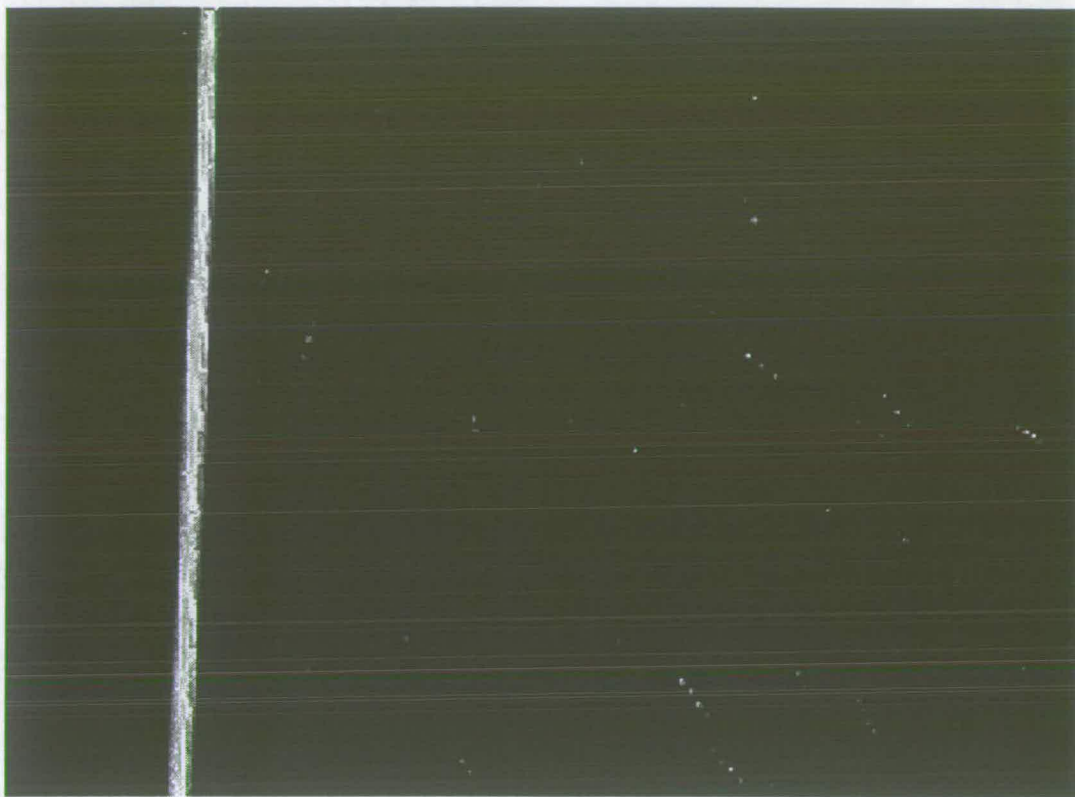


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 17 - 24

Interrogation areas 18.4 mm x 18.4 mm.

SCALE: 1 PIXEL = 0.575 MM

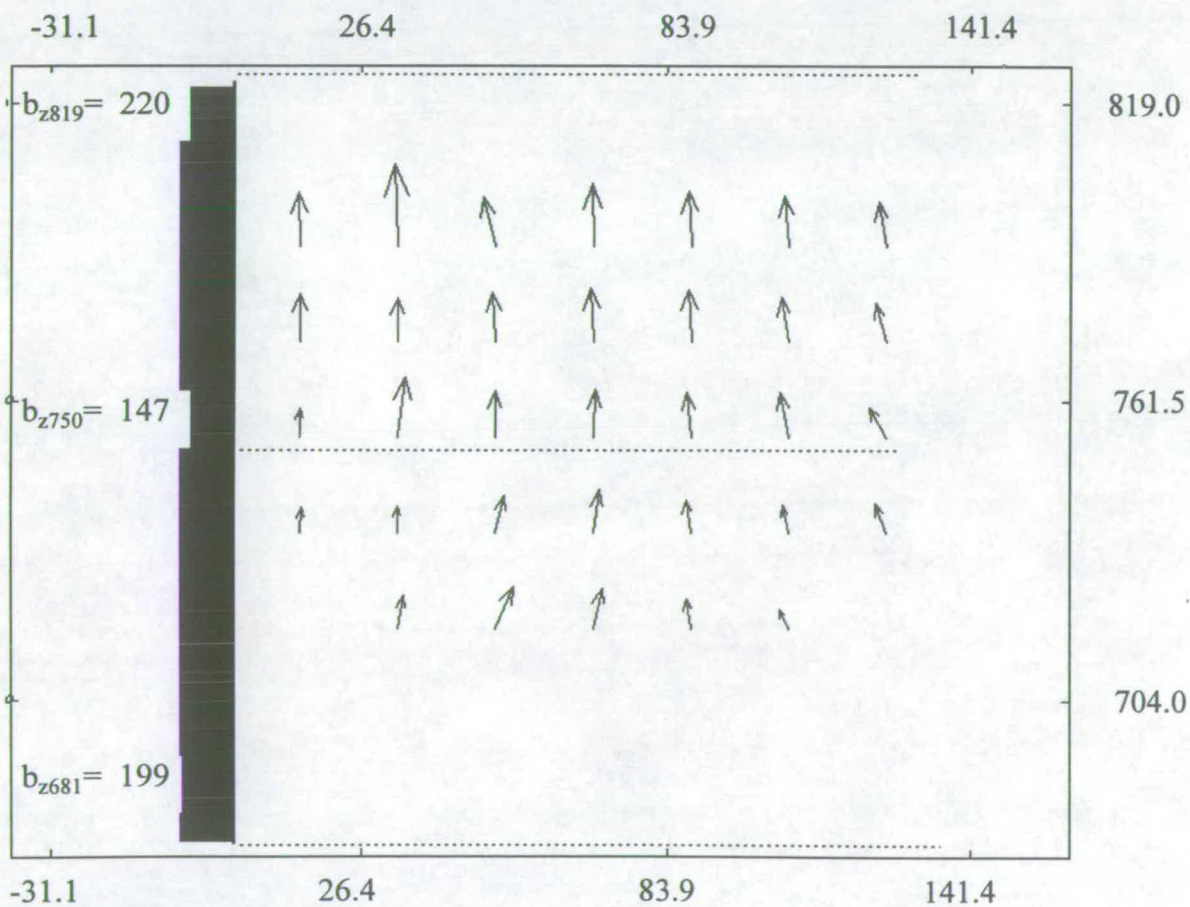
File references: d0h04, d0h05, d0h08, d0h11, d0h13, d0h15, d0h17, d0h20



138 MM

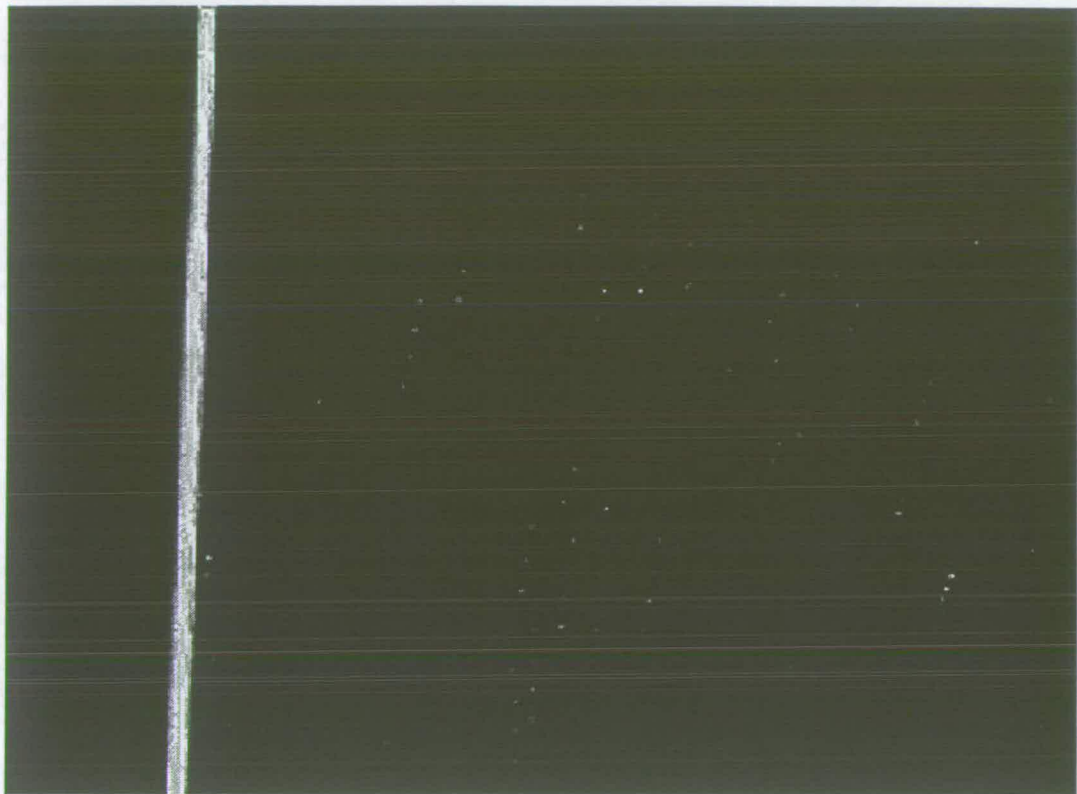
184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 17

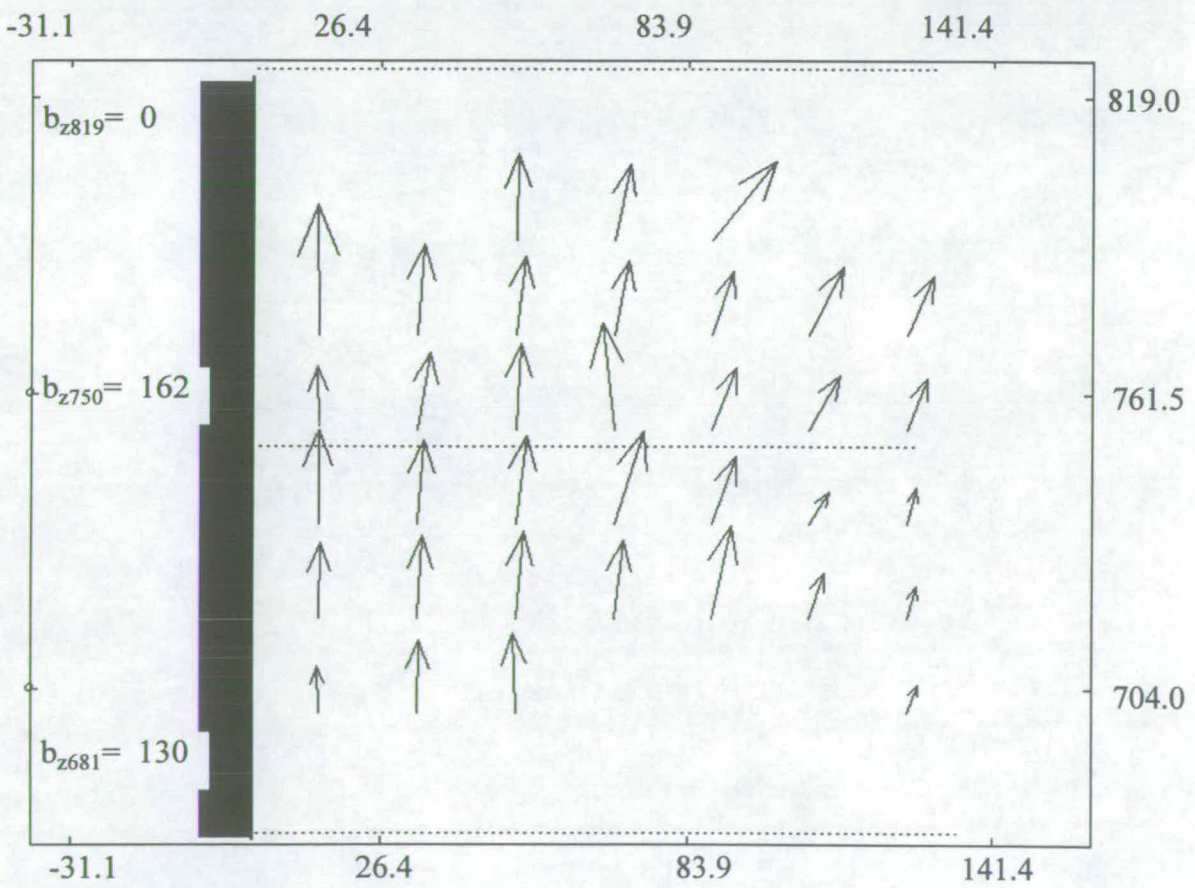
(REF.: D0H04)



138 MM

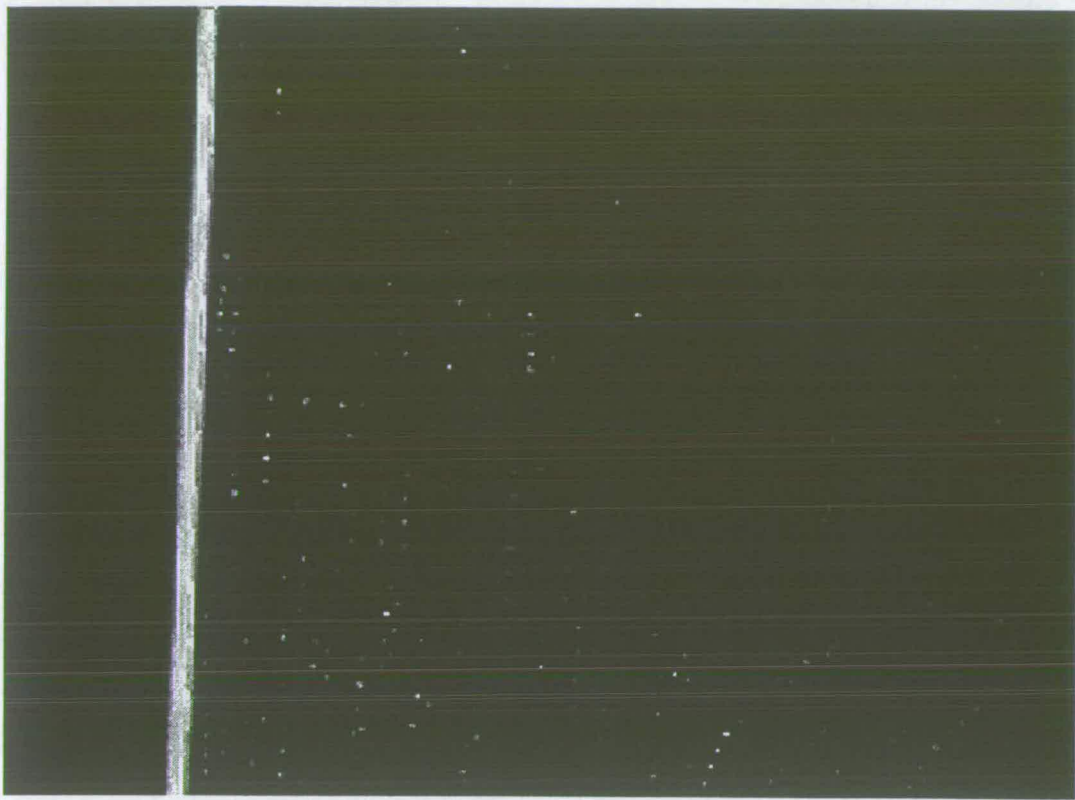
184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 18

(REF.: D0H05)



138 MM

184 MM

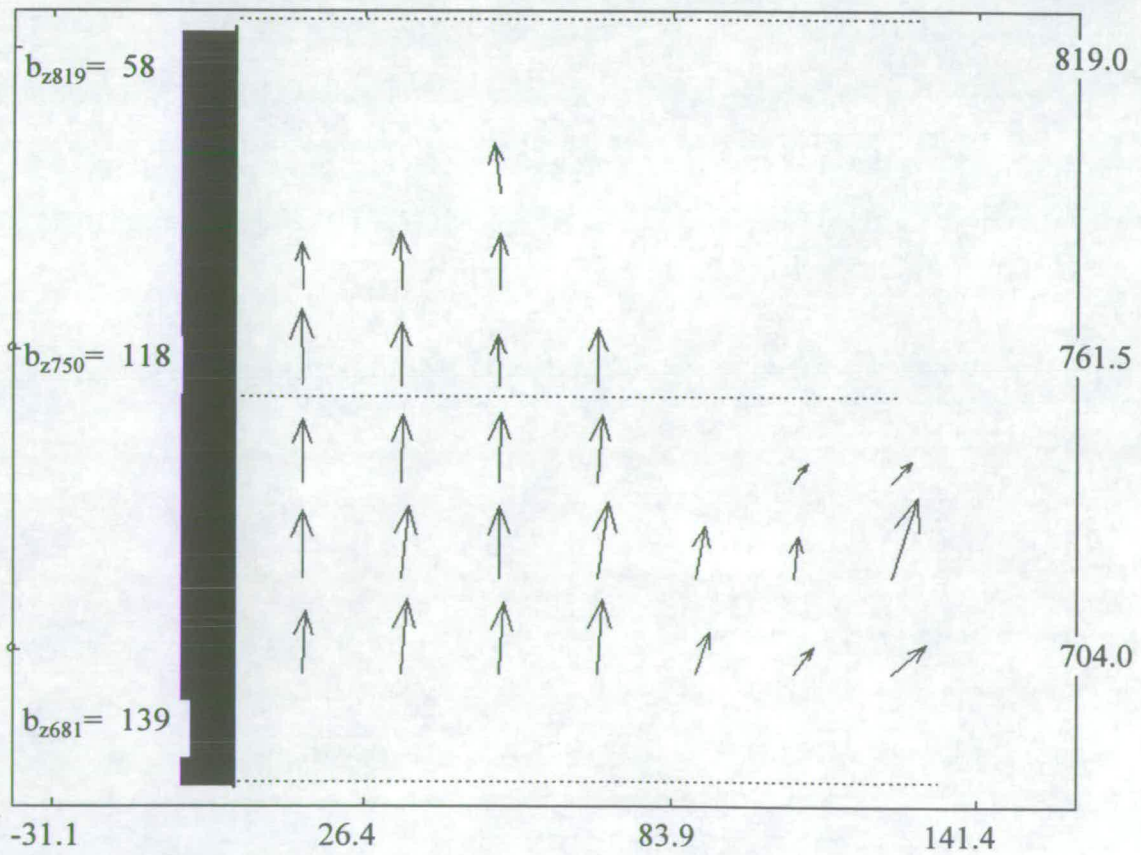
ORIGINAL IMAGE

-31.1

26.4

83.9

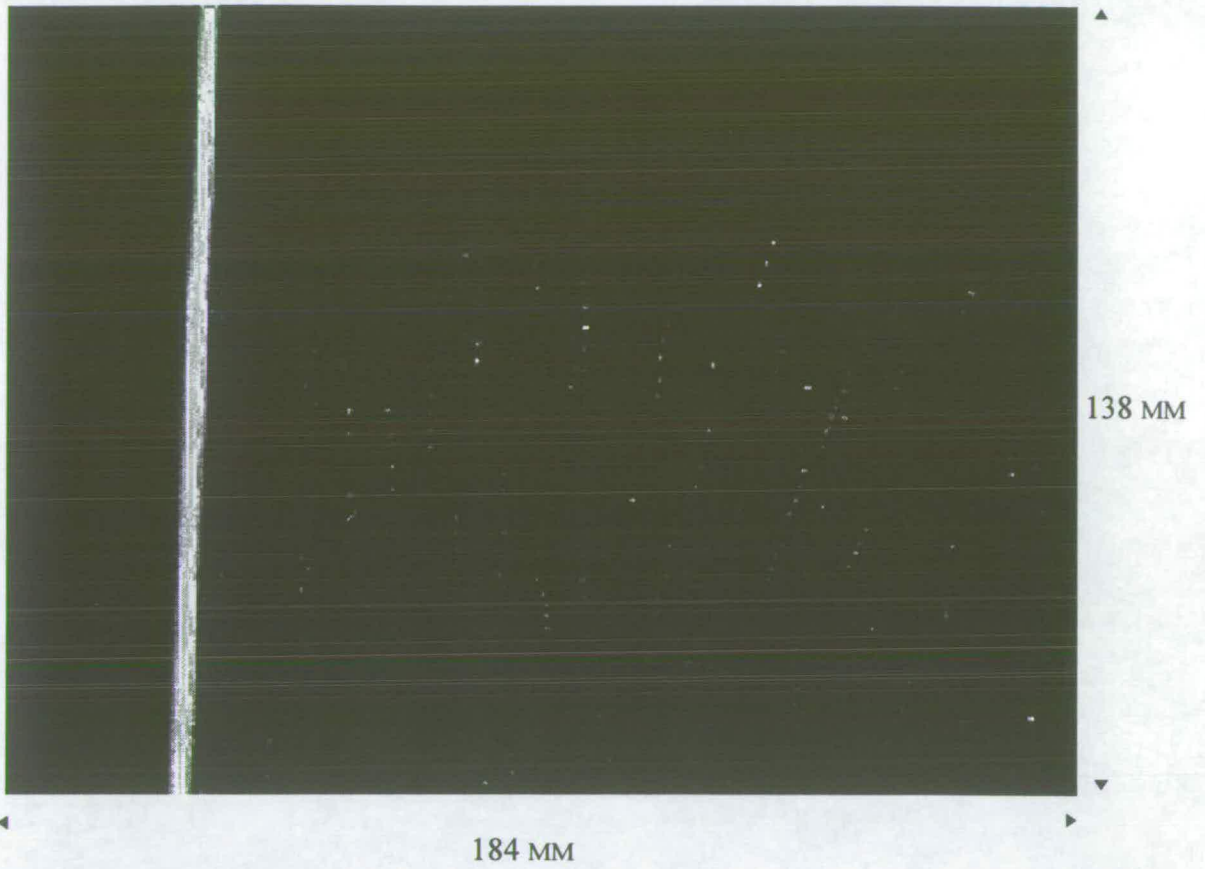
141.4



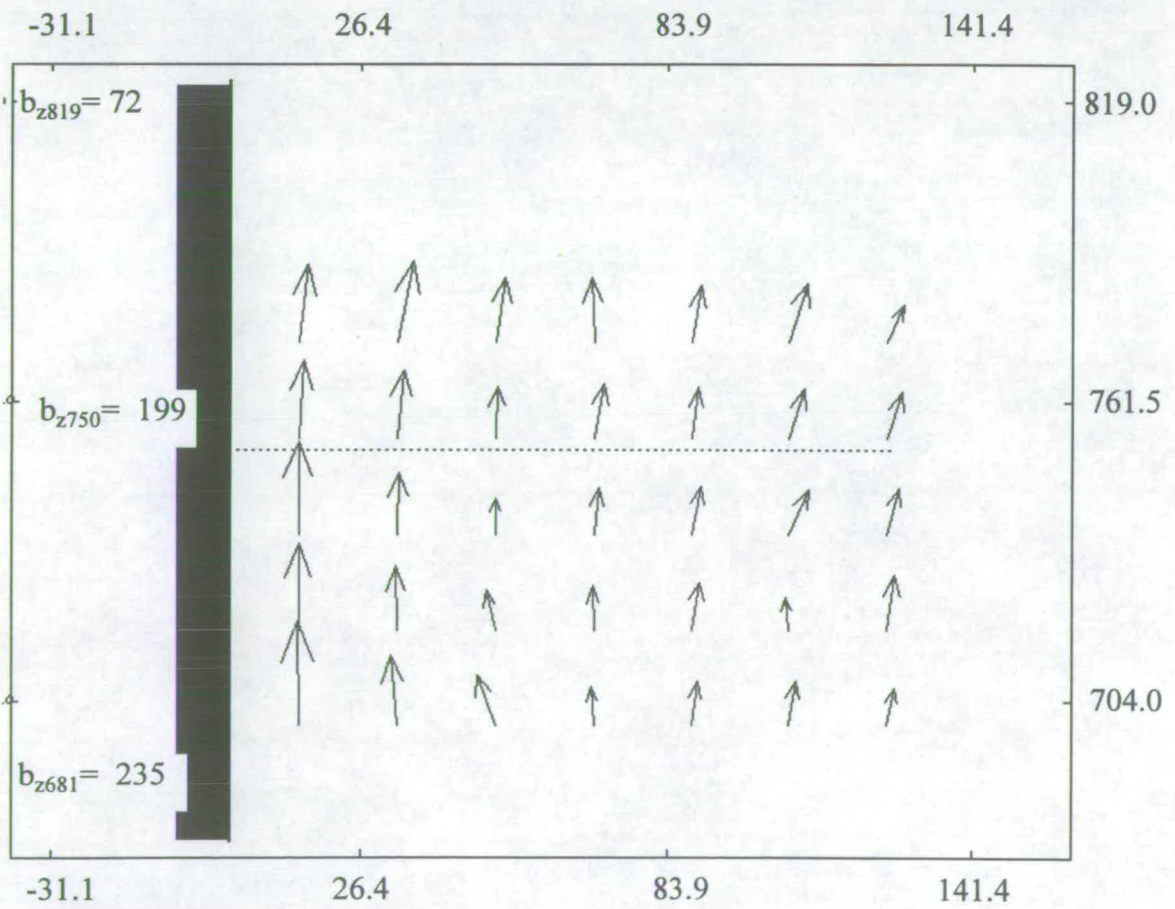
VECTOR MAP

IMAGE NO. 19

(REF.: D0H08)

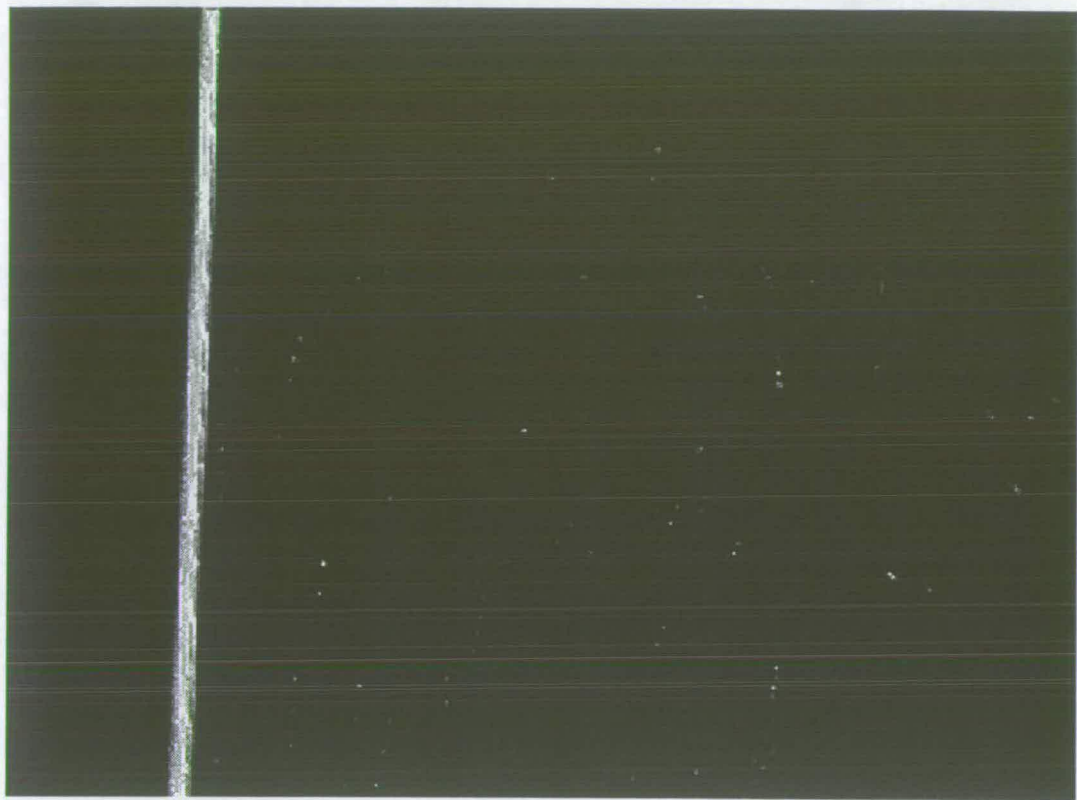


ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 20

(REF.: D0H11)



138 MM

184 MM

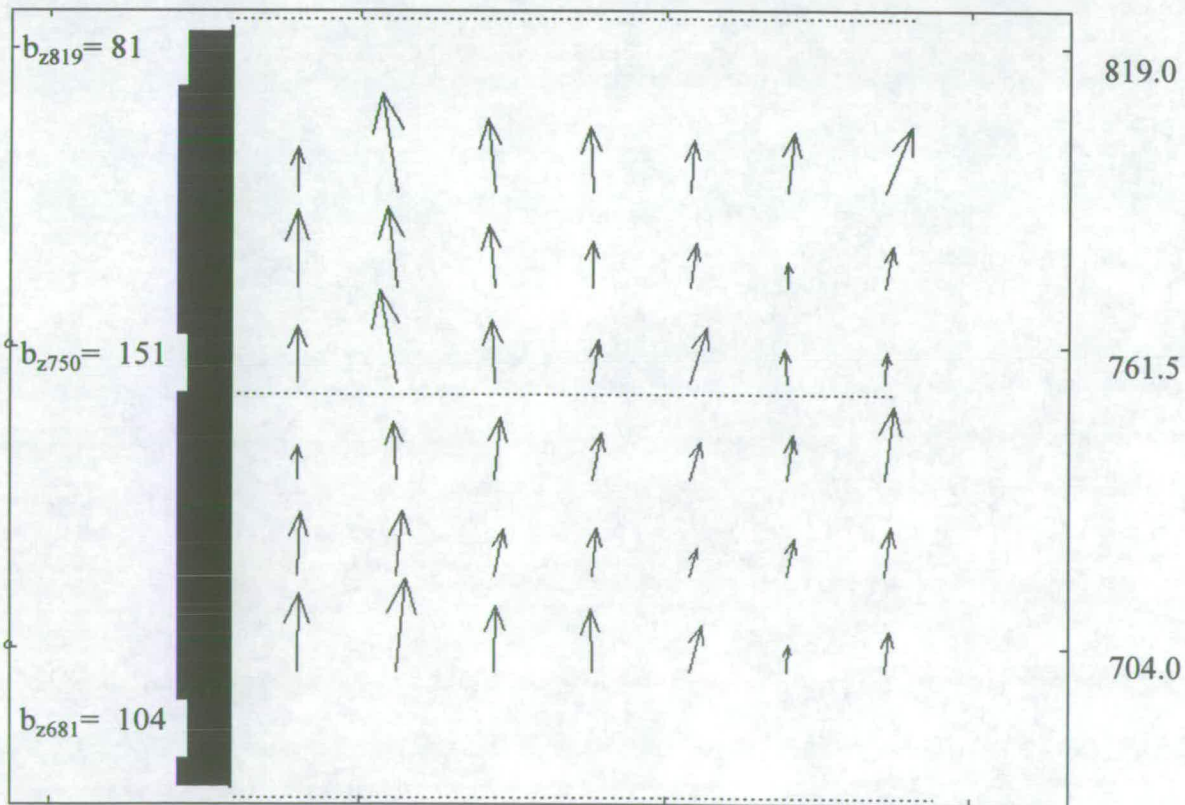
ORIGINAL IMAGE

-31.1

26.4

83.9

141.4



-31.1

26.4

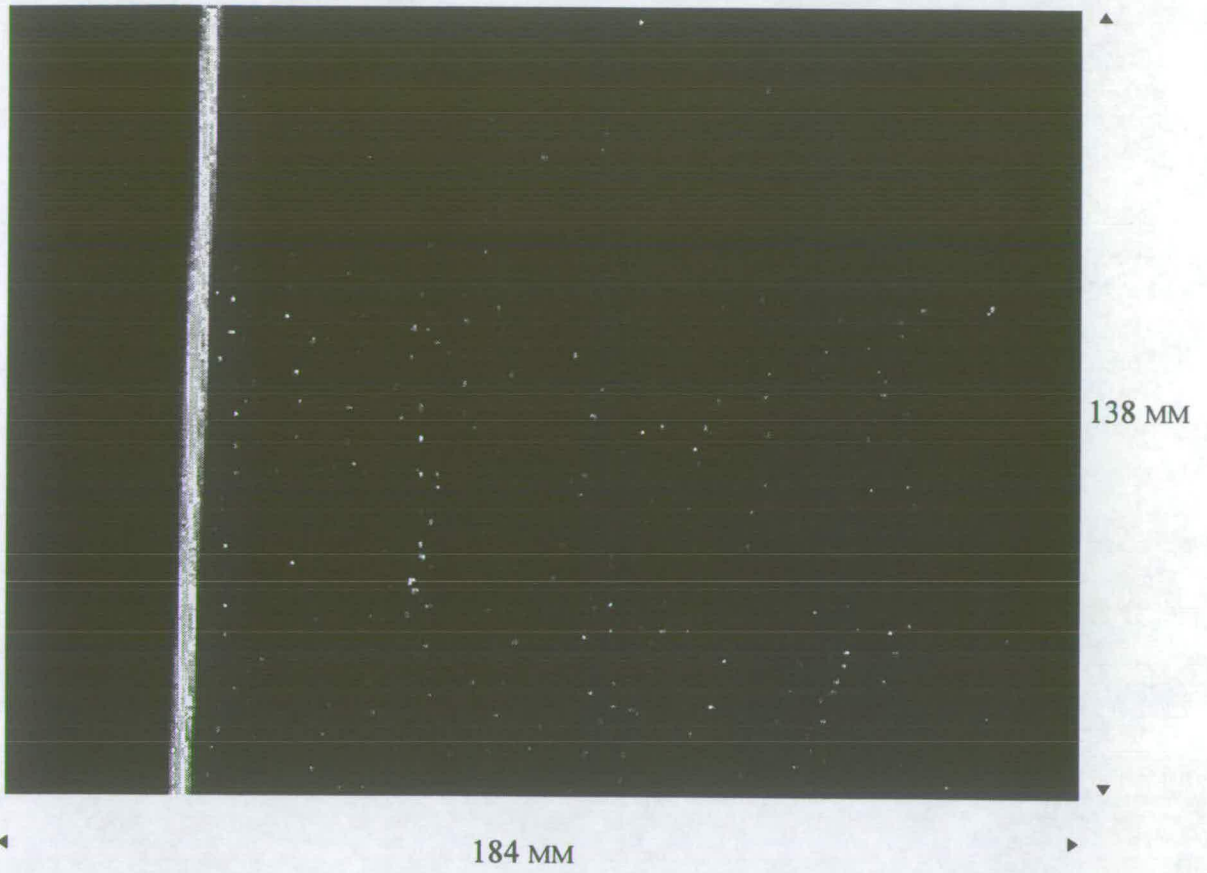
83.9

141.4

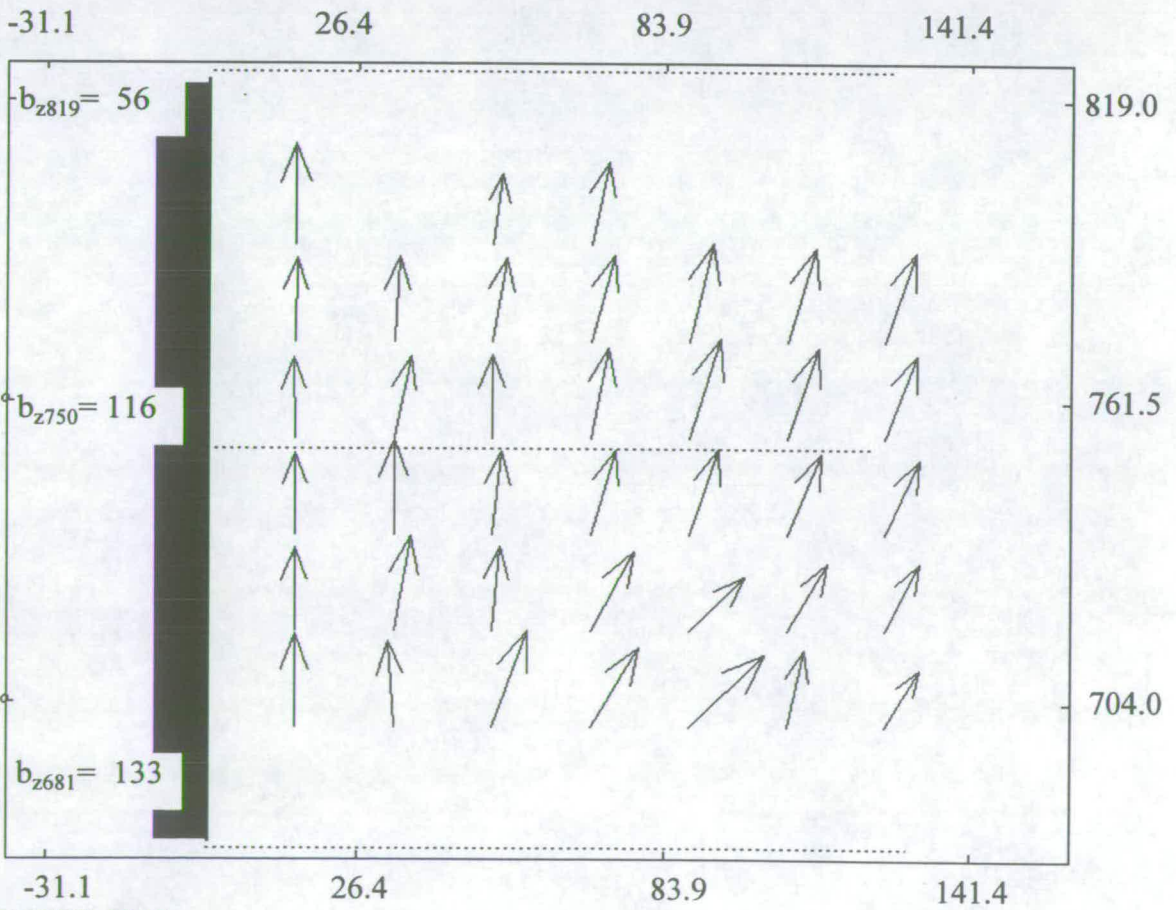
VECTOR MAP

IMAGE NO. 21

(REF.: D0H13)

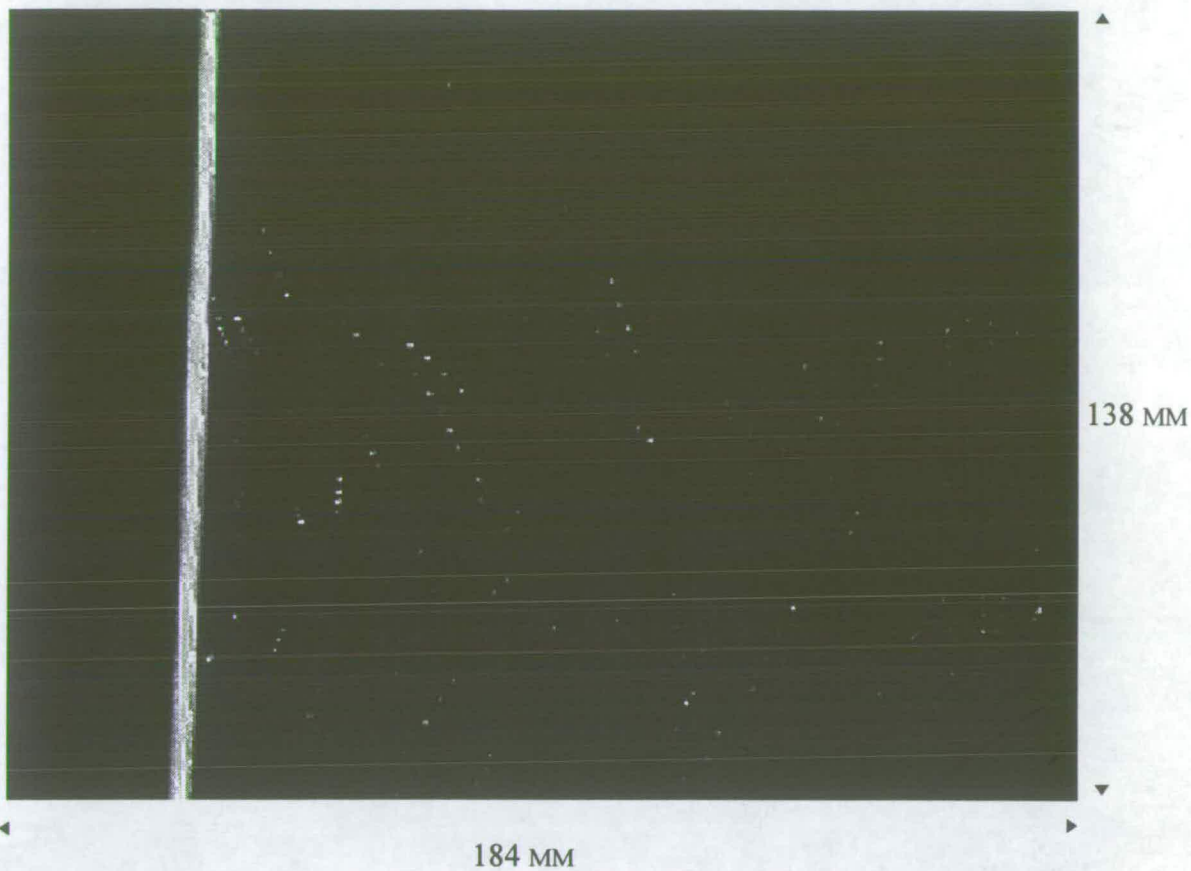


ORIGINAL IMAGE

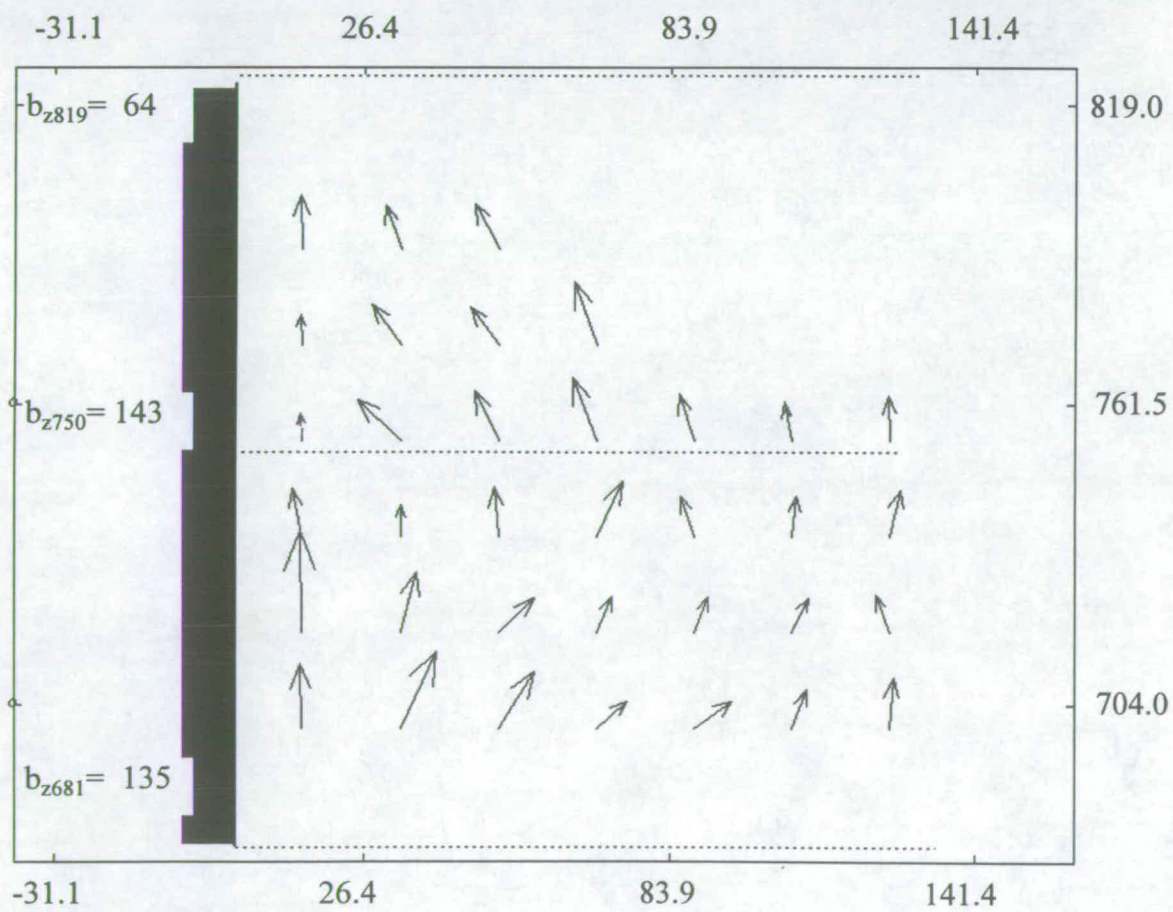


VECTOR MAP  
IMAGE NO. 23

(REF.: D0H17)



ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 24

(REF.: D0H20)

image 17 d0h03

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pixel/peric	m/s	pixel/peric	m/s	
15.0	791.4	-0.028	-0.003	-5.901	0.679	1.000
33.4	791.4	-0.222	-0.025	-9.086	1.045	1.000
51.8	791.4	-1.304	-0.150	-5.459	0.628	1.000
70.2	791.4	-0.092	-0.011	-6.884	0.792	1.000
88.6	791.4	-0.265	-0.030	-6.129	0.705	1.483
107.0	791.4	-0.463	-0.053	-5.589	0.643	1.046
125.4	791.4	-0.804	-0.092	-4.904	0.564	1.016
15.0	773.0	0.087	0.010	-5.332	0.613	1.000
33.4	773.0	0.035	0.004	-4.748	0.546	1.000
51.8	773.0	-0.229	-0.026	-5.490	0.631	1.003
70.2	773.0	-0.291	-0.033	-5.866	0.675	1.527
88.6	773.0	-0.272	-0.031	-5.746	0.661	1.045
107.0	773.0	-0.732	-0.084	-4.888	0.562	1.198
125.4	773.0	-1.125	-0.129	-4.278	0.492	1.197
15.0	754.6	0.024	0.003	-3.133	0.360	1.000
33.4	754.6	0.922	0.106	-6.644	0.764	1.000
51.8	754.6	0.022	0.002	-5.150	0.592	1.000
70.2	754.6	0.239	0.027	-5.189	0.597	1.049
88.6	754.6	-0.363	-0.042	-4.899	0.563	1.276
107.0	754.6	-0.934	-0.107	-4.969	0.571	1.000
125.4	754.6	-1.723	-0.198	-3.300	0.380	1.000
15.0	736.2	0.196	0.023	-2.721	0.313	1.000
33.4	736.2	0.033	0.004	-2.945	0.339	1.000
51.8	736.2	1.093	0.126	-4.003	0.460	1.000
70.2	736.2	0.743	0.085	-4.737	0.545	1.167
88.6	736.2	-0.494	-0.057	-3.656	0.420	1.014
107.0	736.2	-0.625	-0.072	-3.029	0.348	1.000
125.4	736.2	-1.080	-0.124	-3.300	0.379	1.054
15.0	717.8	0.000	0.000	0.000	0.000	1.000
33.4	717.8	0.687	0.079	-3.578	0.411	1.007
51.8	717.8	2.139	0.246	-4.622	0.531	1.000
70.2	717.8	1.055	0.121	-4.456	0.512	1.067
88.6	717.8	-0.487	-0.056	-3.273	0.376	1.080
107.0	717.8	-0.975	-0.112	-2.138	0.246	1.000

image 18 d0h05

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pixel/peric	m/s	pixel/peric	m/s	
51.8	791.4	0.219	0.025	-9.611	1.105	1.000
70.2	791.4	1.753	0.202	-8.407	0.967	1.000
88.6	791.4	7.035	0.809	-8.708	1.001	1.078
33.4	773.0	0.668	0.077	-10.117	1.163	1.063
51.8	773.0	1.001	0.115	-8.690	0.999	1.000
70.2	773.0	1.557	0.179	-8.223	0.946	1.000
88.6	773.0	2.417	0.278	-7.066	0.813	1.000
107.0	773.0	3.800	0.437	-7.659	0.881	1.102
125.4	773.0	8.863	1.019	-7.513	0.864	1.052
15.0	754.6	-0.008	-0.001	-7.043	0.810	1.000
33.4	754.6	1.494	0.172	-8.623	0.992	1.000
51.8	754.6	0.580	0.067	-9.625	1.107	1.000
70.2	754.6	-1.221	-0.140	-11.958	1.375	1.000
88.6	754.6	2.792	0.321	-6.847	0.787	1.182
107.0	754.6	3.366	0.387	-6.111	0.703	1.169
125.4	754.6	2.236	0.257	-5.796	0.667	1.000
15.0	736.2	0.005	0.001	-10.829	1.245	1.000
33.4	736.2	0.772	0.089	-9.477	1.090	1.000
51.8	736.2	1.241	0.143	-9.979	1.148	1.112
70.2	736.2	3.249	0.374	-10.364	1.192	1.191
88.6	736.2	2.693	0.310	-7.614	0.876	1.043
107.0	736.2	2.236	0.257	-3.529	0.406	1.000
125.4	736.2	1.035	0.119	-4.019	0.462	1.000
15.0	717.8	0.270	0.031	-8.454	0.972	1.000
33.4	717.8	0.654	0.075	-9.202	1.058	1.059
51.8	717.8	0.861	0.099	-9.678	1.113	1.000
70.2	717.8	1.005	0.116	-8.733	1.004	1.000
88.6	717.8	2.200	0.253	-10.371	1.193	1.096
107.0	717.8	1.675	0.193	-5.138	0.591	1.042
125.4	717.8	1.074	0.124	-3.601	0.414	1.000
15.0	699.4	-0.030	-0.003	-5.074	0.584	1.000
33.4	699.4	0.243	0.028	-8.018	0.922	1.361
51.8	699.4	-0.236	-0.027	-8.857	1.019	1.000
125.4	699.4	1.239	0.142	-3.124	0.359	1.000

image 19 d0h08

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pixel/peric	m/s	pixel/peric	m/s	snr
51.8	791.4	-0.652	-0.075	-5.430	0.624	1.000
15.0	773.0	-0.001	0.000	-5.043	0.580	1.000
33.4	773.0	-0.039	-0.005	-6.219	0.715	1.149
51.8	773.0	0.078	0.009	-6.032	0.694	1.000
15.0	754.6	-0.030	-0.003	-8.364	0.962	1.000
33.4	754.6	0.067	0.008	-6.991	0.804	1.183
51.8	754.6	-0.087	-0.010	-5.664	0.651	1.000
70.2	754.6	0.103	0.012	-6.400	0.736	1.324
15.0	736.2	0.113	0.013	-6.935	0.797	1.000
33.4	736.2	0.293	0.034	-7.389	0.850	1.000
51.8	736.2	0.195	0.022	-7.641	0.879	1.000
70.2	736.2	0.613	0.071	-7.408	0.852	1.420
107.0	736.2	1.578	0.181	-2.081	0.239	1.000
125.4	736.2	2.235	0.257	-2.254	0.259	1.000
15.0	717.8	0.115	0.013	-7.463	0.858	1.000
33.4	717.8	0.891	0.102	-7.859	0.904	1.000
51.8	717.8	0.139	0.016	-7.944	0.914	1.000
70.2	717.8	1.319	0.152	-8.430	0.969	1.000
88.6	717.8	1.130	0.130	-5.744	0.661	1.125
107.0	717.8	0.524	0.060	-4.658	0.536	1.000
125.4	717.8	2.903	0.334	-8.920	1.026	1.285
15.0	699.4	0.471	0.054	-6.981	0.803	1.000
33.4	699.4	0.713	0.082	-8.245	0.948	1.000
51.8	699.4	0.595	0.068	-7.911	0.910	1.000
70.2	699.4	0.559	0.064	-8.260	0.950	1.000
88.6	699.4	1.600	0.184	-4.646	0.534	1.243
107.0	699.4	2.204	0.253	-2.835	0.326	1.000
125.4	699.4	3.860	0.444	-3.168	0.364	1.027

image 20 d0h11

location x mm	location y mm	velocity x pixel/peric m/s	velocity x m/s	velocity y pixel/peric m/s	velocity y m/s	noise snr
15.0	773.0	1.042	0.120	-8.562	0.985	1.000
33.4	773.0	1.794	0.206	-8.953	1.030	1.000
51.8	773.0	1.143	0.131	-7.012	0.806	1.000
70.2	773.0	-0.175	-0.020	-7.099	0.816	1.000
88.6	773.0	1.026	0.118	-6.204	0.713	1.044
107.0	773.0	2.095	0.241	-6.490	0.746	1.000
125.4	773.0	1.861	0.214	-4.029	0.463	1.000
15.0	754.6	0.550	0.063	-8.623	0.992	1.000
33.4	754.6	0.733	0.084	-7.468	0.859	1.287
51.8	754.6	0.260	0.030	-5.632	0.648	1.000
70.2	754.6	1.061	0.122	-5.939	0.683	1.000
88.6	754.6	0.830	0.095	-5.518	0.635	1.000
107.0	754.6	1.738	0.200	-5.336	0.614	1.122
125.4	754.6	1.801	0.207	-5.051	0.581	1.000
15.0	736.2	0.011	0.001	-10.303	1.185	1.000
33.4	736.2	0.281	0.032	-6.780	0.780	1.000
51.8	736.2	0.085	0.010	-3.917	0.451	1.000
70.2	736.2	0.569	0.065	-5.027	0.578	1.019
88.6	736.2	1.098	0.126	-5.302	0.610	1.000
107.0	736.2	2.173	0.250	-4.856	0.558	1.000
125.4	736.2	1.453	0.167	-5.132	0.590	1.018
15.0	717.8	0.022	0.003	-9.621	1.106	1.000
33.4	717.8	-0.156	-0.018	-7.103	0.817	1.154
51.8	717.8	-0.926	-0.106	-4.363	0.502	1.000
70.2	717.8	-0.155	-0.018	-4.838	0.556	1.000
88.6	717.8	0.953	0.110	-5.333	0.613	1.000
107.0	717.8	-0.240	-0.028	-3.533	0.406	1.000
125.4	717.8	0.999	0.115	-6.099	0.701	1.000
15.0	699.4	-0.041	-0.005	-11.533	1.326	1.000
33.4	699.4	-0.653	-0.075	-7.832	0.901	1.276
51.8	699.4	-1.939	-0.223	-5.593	0.643	1.000
70.2	699.4	-0.261	-0.030	-4.285	0.493	1.000
88.6	699.4	0.724	0.083	-4.861	0.559	1.000
107.0	699.4	0.915	0.105	-4.883	0.562	1.000
125.4	699.4	0.978	0.112	-4.023	0.463	1.000

image 21 d0h13

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pixel/peric	m/s	pixel/peric	m/s	
15.0	791.4	0.012	0.001	-4.834	0.556	1.000
33.4	791.4	-1.591	-0.183	-10.985	1.263	1.000
51.8	791.4	-0.828	-0.095	-8.137	0.936	1.004
70.2	791.4	-0.202	-0.023	-7.263	0.835	1.000
88.6	791.4	0.046	0.005	-11.595	1.333	1.000
107.0	791.4	0.719	0.083	-6.559	0.754	1.002
125.4	791.4	2.979	0.343	-7.195	0.827	1.008
15.0	773.0	0.010	0.001	-8.555	0.984	4.379
33.4	773.0	-0.860	-0.099	-8.932	1.027	1.006
51.8	773.0	-0.578	-0.066	-6.974	0.802	1.282
70.2	773.0	0.085	0.010	-5.134	0.590	1.000
88.6	773.0	-1.336	-0.154	-3.285	0.378	1.000
107.0	773.0	0.160	0.018	-2.693	0.310	1.000
125.4	773.0	0.979	0.113	-4.506	0.518	1.014
15.0	754.6	0.154	0.018	-6.281	0.722	1.000
33.4	754.6	-1.823	-0.210	-10.205	1.174	1.000
51.8	754.6	0.127	0.015	-2.819	0.324	1.000
70.2	754.6	0.715	0.082	-4.761	0.547	1.024
88.6	754.6	1.896	0.218	-6.074	0.699	1.000
107.0	754.6	-0.234	-0.027	-3.780	0.435	1.000
125.4	754.6	0.318	0.037	-3.458	0.398	1.000
15.0	736.2	0.012	0.001	-3.544	0.408	1.000
33.4	736.2	-0.253	-0.029	-6.333	0.728	1.015
51.8	736.2	0.708	0.081	-6.807	0.783	1.000
70.2	736.2	1.019	0.117	-5.139	0.591	1.495
88.6	736.2	1.292	0.149	-4.095	0.471	1.000
107.0	736.2	0.675	0.078	-4.865	0.559	1.139
125.4	736.2	1.047	0.120	-8.113	0.933	1.000
15.0	717.8	0.355	0.041	-6.869	0.790	1.000
33.4	717.8	0.804	0.092	-7.163	0.824	1.049
51.8	717.8	1.124	0.129	-5.098	0.586	1.000
70.2	717.8	0.640	0.074	-5.191	0.597	1.008
88.6	717.8	0.851	0.098	-3.082	0.354	1.000
107.0	717.8	0.847	0.097	-4.090	0.470	1.035
125.4	717.8	0.787	0.090	-5.343	0.614	1.213
15.0	699.4	0.168	0.019	-8.625	0.992	1.000
33.4	699.4	1.148	0.132	-10.327	1.188	1.000
51.8	699.4	0.216	0.025	-7.282	0.837	1.000
70.2	699.4	-0.155	-0.018	-6.959	0.800	1.000
88.6	699.4	1.423	0.164	-5.011	0.576	1.000
107.0	699.4	0.310	0.036	-2.935	0.338	1.000
125.4	699.4	0.665	0.076	-4.373	0.503	1.310

image 22 d0h16

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pixel/peri	m/s	pixel/peri	m/s	
15.0	791.4	0.004	0.000	-5.399	0.621	1.000
33.4	791.4	1.075	0.124	-10.627	1.222	1.000
51.8	791.4	2.535	0.292	-11.433	1.315	1.110
70.2	791.4	-0.851	-0.098	-9.340	1.074	1.095
15.0	773.0	0.674	0.078	-8.064	0.927	1.059
33.4	773.0	1.004	0.116	-10.791	1.241	1.000
51.8	773.0	-0.787	-0.090	-12.731	1.464	1.000
70.2	773.0	-1.909	-0.220	-8.800	1.012	1.039
88.6	773.0	-1.168	-0.134	-6.976	0.802	1.232
107.0	773.0	0.668	0.077	-3.051	0.351	1.000
125.4	773.0	1.811	0.208	-1.700	0.196	1.000
15.0	754.6	0.055	0.006	-5.600	0.644	1.000
33.4	754.6	2.471	0.284	-11.002	1.265	1.000
51.8	754.6	-0.880	-0.101	-15.062	1.732	1.038
70.2	754.6	-1.836	-0.211	-11.192	1.287	1.127
88.6	754.6	-2.109	-0.242	-6.205	0.714	1.113
107.0	754.6	0.274	0.031	-2.843	0.327	1.170
125.4	754.6	2.077	0.239	-2.398	0.276	1.000
15.0	736.2	0.009	0.001	-9.951	1.144	1.000
33.4	736.2	0.644	0.074	-10.566	1.215	1.161
51.8	736.2	-0.435	-0.050	-10.843	1.247	1.198
70.2	736.2	-1.377	-0.158	-9.484	1.091	1.051
88.6	736.2	-0.084	-0.010	-5.553	0.639	1.077
107.0	736.2	0.758	0.087	-4.752	0.546	1.013
125.4	736.2	1.177	0.135	-3.462	0.398	1.004
15.0	717.8	0.030	0.003	-11.445	1.316	1.000
33.4	717.8	-0.154	-0.018	-10.402	1.196	1.007
51.8	717.8	-1.154	-0.133	-10.072	1.158	1.000
70.2	717.8	-3.562	-0.410	-9.013	1.037	1.349
88.6	717.8	2.055	0.236	-4.332	0.498	1.000
107.0	717.8	1.158	0.133	-4.223	0.486	1.454
15.0	699.4	0.009	0.001	-6.786	0.780	1.000
33.4	699.4	-0.182	-0.021	-9.311	1.071	1.000
51.8	699.4	-2.202	-0.253	-8.435	0.970	1.000
70.2	699.4	-3.790	-0.436	-5.359	0.616	1.050
88.6	699.4	1.541	0.177	-1.858	0.214	1.000

image 23 d0h17

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pixel/peri	m/s	pixel/peri	m/s	snr
15.0	791.4	0.025	0.003	-11.126	1.280	1.000
51.8	791.4	1.159	0.133	-7.774	0.894	1.062
70.2	791.4	1.940	0.223	-9.051	1.041	1.000
15.0	773.0	0.194	0.022	-9.134	1.050	1.000
33.4	773.0	0.624	0.072	-9.244	1.063	1.071
51.8	773.0	1.621	0.186	-9.132	1.050	1.065
70.2	773.0	2.549	0.293	-9.415	1.083	1.000
88.6	773.0	2.639	0.303	-10.811	1.243	1.089
107.0	773.0	3.120	0.359	-10.327	1.188	1.065
125.4	773.0	3.367	0.387	-9.742	1.120	1.446
15.0	754.6	-0.127	-0.015	-8.670	0.997	1.000
33.4	754.6	1.897	0.218	-8.833	1.016	1.000
51.8	754.6	0.048	0.005	-9.125	1.049	1.000
70.2	754.6	1.987	0.228	-9.857	1.134	1.508
88.6	754.6	3.454	0.397	-10.932	1.257	1.043
107.0	754.6	3.448	0.396	-9.887	1.137	1.002
125.4	754.6	3.607	0.415	-9.154	1.053	1.237
15.0	736.2	0.020	0.002	-8.910	1.025	1.000
33.4	736.2	0.074	0.008	-10.488	1.206	1.000
51.8	736.2	1.128	0.130	-9.132	1.050	1.061
70.2	736.2	2.832	0.326	-9.326	1.073	1.000
88.6	736.2	3.225	0.371	-9.455	1.087	1.028
107.0	736.2	3.752	0.431	-8.955	1.030	1.012
125.4	736.2	3.876	0.446	-8.235	0.947	1.201
15.0	717.8	0.016	0.002	-9.121	1.049	1.000
33.4	717.8	1.877	0.216	-10.338	1.189	1.000
51.8	717.8	0.980	0.113	-9.217	1.060	1.040
70.2	717.8	4.682	0.538	-8.739	1.005	1.115
88.6	717.8	6.089	0.700	-5.861	0.674	1.079
107.0	717.8	4.482	0.515	-7.474	0.859	1.006
125.4	717.8	3.911	0.450	-7.385	0.849	1.446
15.0	699.4	0.090	0.010	-10.279	1.182	1.000
33.4	699.4	-0.553	-0.064	-9.418	1.083	1.000
51.8	699.4	3.994	0.459	-10.661	1.226	1.356
70.2	699.4	5.181	0.596	-8.769	1.008	1.001
88.6	699.4	8.306	0.955	-7.981	0.918	1.319
107.0	699.4	1.981	0.228	-8.498	0.977	1.056
125.4	699.4	3.959	0.455	-6.330	0.728	1.405

image 24 d0h20

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pixel/peri	m/s	pixel/peri	m/s	snr
15.0	791.4	-0.001	0.000	-5.958	0.685	1.000
33.4	791.4	-1.664	-0.191	-4.725	0.543	1.155
51.8	773.0	-2.662	-0.306	-4.921	0.566	1.028
15.0	773.0	-0.111	-0.013	-3.216	0.370	1.000
33.4	773.0	-3.020	-0.347	-4.493	0.517	1.257
51.8	773.0	-3.009	-0.346	-4.032	0.464	1.700
70.2	754.6	-2.342	-0.269	-6.930	0.797	1.000
15.0	754.6	-0.098	-0.011	-2.844	0.327	1.000
33.4	754.6	-4.609	-0.530	-4.446	0.511	1.022
51.8	754.6	-2.638	-0.303	-5.359	0.616	1.168
70.2	754.6	-2.607	-0.300	-6.915	0.795	1.162
88.6	754.6	-1.664	-0.191	-5.058	0.582	1.000
107.0	754.6	-0.809	-0.093	-4.196	0.483	1.000
125.4	736.2	-0.052	-0.006	-4.897	0.563	1.000
15.0	736.2	-0.888	-0.102	-5.228	0.601	1.000
33.4	736.2	0.088	0.010	-3.340	0.384	1.000
51.8	736.2	-0.455	-0.052	-5.358	0.616	1.000
70.2	736.2	2.912	0.335	-6.014	0.692	1.028
88.6	736.2	-1.362	-0.157	-4.494	0.517	1.000
107.0	736.2	0.657	0.076	-4.358	0.501	1.068
125.4	717.8	1.244	0.143	-5.132	0.590	1.000
15.0	717.8	-0.048	-0.005	-11.217	1.290	1.000
33.4	717.8	1.717	0.197	-6.555	0.754	1.075
51.8	717.8	3.857	0.444	-3.711	0.427	1.860
70.2	717.8	1.811	0.208	-3.935	0.453	1.000
88.6	717.8	1.552	0.178	-3.864	0.444	1.045
107.0	717.8	1.870	0.215	-3.829	0.440	1.208
125.4	699.4	-1.364	-0.157	-4.158	0.478	1.000
15.0	699.4	-0.018	-0.002	-7.113	0.818	1.000
33.4	699.4	3.918	0.451	-8.477	0.975	1.225
51.8	699.4	3.953	0.455	-6.236	0.717	1.664
70.2	699.4	3.454	0.397	-2.864	0.329	1.010
88.6	699.4	4.281	0.492	-2.983	0.343	1.035
107.0	699.4	1.792	0.206	-4.254	0.489	1.105
125.4	819.0	0.532	0.061	-5.644	0.649	1.000

**Velocity Data for Images 17-24. Vertical Velocities**  
**0 Downstand; 660 Long Compartment**

x mm	y mm	velocity m/s								
		im17	im18	im19	im20	im21	im22	im23	im24	mean
15.0	791.4	0.679	0.000	0.000	0.000	0.556	0.621	1.280	0.685	0.477
33.4	791.4	1.045	0.000	0.000	0.000	1.263	1.222	0.894	0.543	0.621
51.8	791.4	0.628	1.105	0.624	0.000	0.936	1.315	1.041	0.566	0.777
70.2	791.4	0.792	0.967	0.000	0.000	0.835	1.074	0.000	0.000	0.458
88.6	791.4	0.705	1.001	0.000	0.000	1.333	0.000	0.000	0.000	0.380
107.0	791.4	0.643	0.000	0.000	0.000	0.754	0.000	0.000	0.000	0.175
125.4	791.4	0.564	0.000	0.000	0.000	0.827	0.000	0.000	0.000	0.174
15.0	773.0	0.613	0.000	0.580	0.985	0.984	0.927	1.050	0.370	0.689
33.4	773.0	0.546	1.163	0.715	1.030	1.027	1.241	1.063	0.517	0.913
51.8	773.0	0.631	0.999	0.694	0.806	0.802	1.464	1.050	0.464	0.864
70.2	773.0	0.675	0.946	0.000	0.816	0.590	1.012	1.083	0.797	0.740
88.6	773.0	0.661	0.813	0.000	0.713	0.378	0.802	1.243	0.000	0.576
107.0	773.0	0.562	0.881	0.000	0.746	0.310	0.351	1.188	0.000	0.505
125.4	773.0	0.492	0.864	0.000	0.463	0.518	0.196	1.120	0.000	0.457
15.0	754.6	0.360	0.810	0.962	0.992	0.722	0.644	0.997	0.327	0.727
33.4	754.6	0.764	0.992	0.804	0.859	1.174	1.265	1.016	0.511	0.923
51.8	754.6	0.592	1.107	0.651	0.648	0.324	1.732	1.049	0.616	0.840
70.2	754.6	0.597	1.375	0.736	0.683	0.547	1.287	1.134	0.795	0.894
88.6	754.6	0.563	0.787	0.000	0.635	0.699	0.714	1.257	0.582	0.655
107.0	754.6	0.571	0.703	0.000	0.614	0.435	0.327	1.137	0.483	0.534
125.4	754.6	0.380	0.667	0.000	0.581	0.398	0.276	1.053	0.563	0.490
15.0	736.2	0.313	1.245	0.797	1.185	0.408	1.144	1.025	0.601	0.840
33.4	736.2	0.339	1.090	0.850	0.780	0.728	1.215	1.206	0.384	0.824
51.8	736.2	0.460	1.148	0.879	0.451	0.783	1.247	1.050	0.616	0.829
70.2	736.2	0.545	1.192	0.852	0.578	0.591	1.091	1.073	0.692	0.827
88.6	736.2	0.420	0.876	0.000	0.610	0.471	0.639	1.087	0.517	0.577
107.0	736.2	0.348	0.406	0.239	0.558	0.559	0.546	1.030	0.501	0.524
125.4	736.2	0.379	0.462	0.259	0.590	0.933	0.398	0.947	0.590	0.570
15.0	717.8	0.000	0.972	0.858	1.106	0.790	1.316	1.049	1.290	0.923
33.4	717.8	0.411	1.058	0.904	0.817	0.824	1.196	1.189	0.754	0.894
51.8	717.8	0.531	1.113	0.914	0.502	0.586	1.158	1.060	0.427	0.786
70.2	717.8	0.512	1.004	0.969	0.556	0.597	1.037	1.005	0.453	0.767
88.6	717.8	0.376	1.193	0.661	0.613	0.354	0.498	0.674	0.444	0.602
107.0	717.8	0.246	0.591	0.536	0.406	0.470	0.486	0.859	0.440	0.504
125.4	717.8	0.000	0.414	1.026	0.701	0.614	0.000	0.849	0.478	0.510
15.0	699.4	0.000	0.584	0.803	1.326	0.992	0.780	1.182	0.818	0.811
33.4	699.4	0.000	0.922	0.948	0.901	1.188	1.071	1.083	0.975	0.886
51.8	699.4	0.000	1.019	0.910	0.643	0.837	0.970	1.226	0.717	0.790
70.2	699.4	0.000	0.359	0.950	0.493	0.800	0.616	1.008	0.329	0.570
88.6	699.4	0.000	0.000	0.534	0.559	0.576	0.214	0.918	0.343	0.393
107.0	699.4	0.000	0.000	0.326	0.562	0.338	0.000	0.977	0.489	0.336
125.4	699.4	0.000	0.000	0.364	0.463	0.503	0.000	0.728	0.649	0.338

## Velocity Data for Images 17-24.

## Horizontal Velocities

0 Downstand;

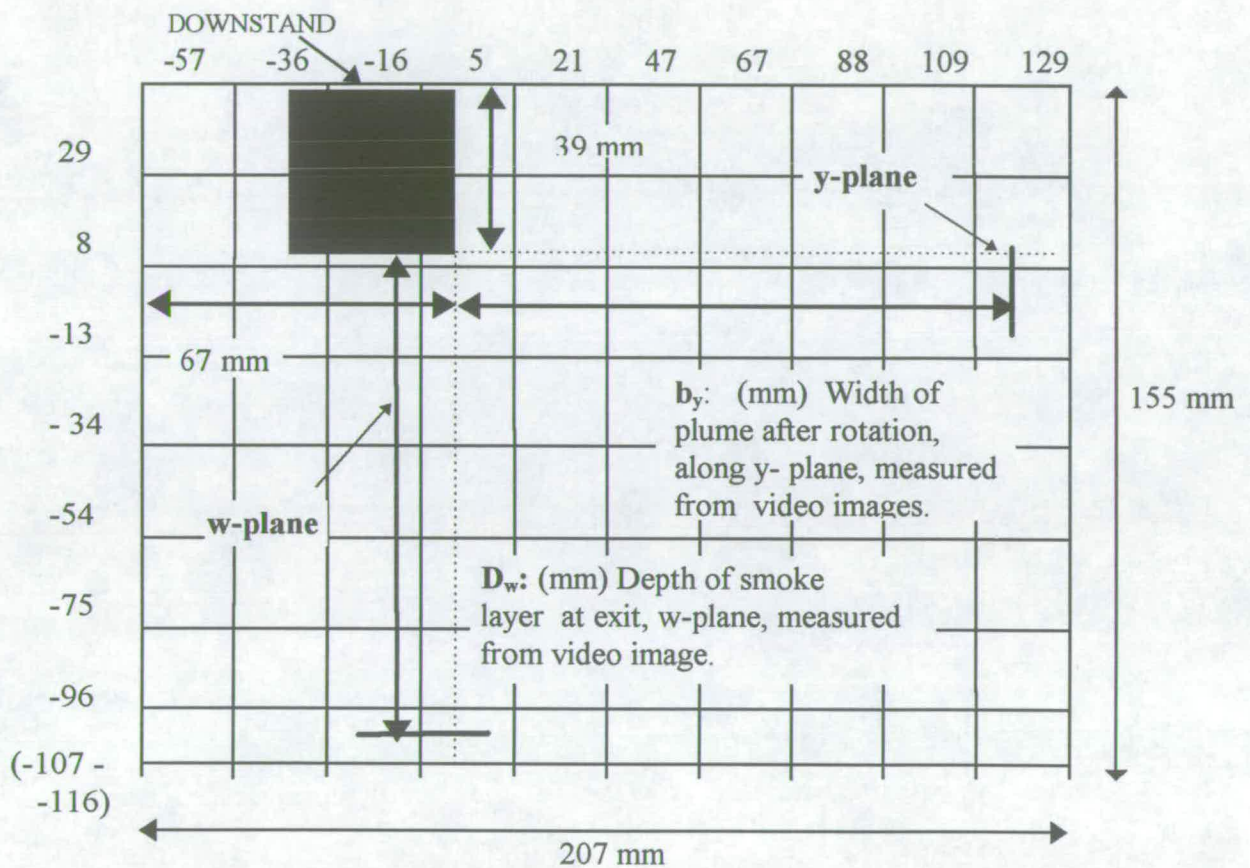
660 Long Compartment

x mm	y mm	velocity m/s								m/s mean
		im17	im18	im19	im20	im21	im22	im23	im24	
15.0	791.4	-0.003	0.000	0.000	0.000	0.001	0.000	0.003	0.000	0.000
33.4	791.4	-0.025	0.000	0.000	0.000	-0.183	0.124	0.133	-0.191	-0.018
51.8	791.4	-0.150	0.025	-0.075	0.000	-0.095	0.292	0.223	-0.306	-0.011
70.2	791.4	-0.011	0.202	0.000	0.000	-0.023	-0.098	0.000	0.000	0.009
88.6	791.4	-0.030	0.809	0.000	0.000	0.005	0.000	0.000	0.000	0.098
107.0	791.4	-0.053	0.000	0.000	0.000	0.083	0.000	0.000	0.000	0.004
125.4	791.4	-0.092	0.000	0.000	0.000	0.343	0.000	0.000	0.000	0.031
15.0	773.0	0.010	0.000	0.000	0.120	0.001	0.078	0.022	-0.013	0.027
33.4	773.0	0.004	0.077	-0.005	0.206	-0.099	0.116	0.072	-0.347	0.003
51.8	773.0	-0.026	0.115	0.009	0.131	-0.066	-0.090	0.186	-0.346	-0.011
70.2	773.0	-0.033	0.179	0.000	-0.020	0.010	-0.220	0.293	-0.269	-0.008
88.6	773.0	-0.031	0.278	0.000	0.118	-0.154	-0.134	0.303	0.000	0.048
107.0	773.0	-0.084	0.437	0.000	0.241	0.018	0.077	0.359	0.000	0.131
125.4	773.0	-0.129	1.019	0.000	0.214	0.113	0.208	0.387	0.000	0.226
15.0	754.6	0.003	-0.001	-0.003	0.063	0.018	0.006	-0.015	-0.011	0.007
33.4	754.6	0.106	0.172	0.008	0.084	-0.210	0.284	0.218	-0.530	0.017
51.8	754.6	0.002	0.067	-0.010	0.030	0.015	-0.101	0.005	-0.303	-0.037
70.2	754.6	0.027	-0.140	0.012	0.122	0.082	-0.211	0.228	-0.300	-0.022
88.6	754.6	-0.042	0.321	0.000	0.095	0.218	-0.242	0.397	-0.191	0.070
107.0	754.6	-0.107	0.387	0.000	0.200	-0.027	0.031	0.396	-0.093	0.098
125.4	754.6	-0.198	0.257	0.000	0.207	0.037	0.239	0.415	-0.006	0.119
15.0	736.2	0.023	0.001	0.013	0.001	0.001	0.001	0.002	-0.102	-0.007
33.4	736.2	0.004	0.089	0.034	0.032	-0.029	0.074	0.008	0.010	0.028
51.8	736.2	0.126	0.143	0.022	0.010	0.081	-0.050	0.130	-0.052	0.051
70.2	736.2	0.085	0.374	0.071	0.065	0.117	-0.158	0.326	0.335	0.152
88.6	736.2	-0.057	0.310	0.000	0.126	0.149	-0.010	0.371	-0.157	0.092
107.0	736.2	-0.072	0.257	0.181	0.250	0.078	0.087	0.431	0.076	0.161
125.4	736.2	-0.124	0.119	0.257	0.167	0.120	0.135	0.446	0.143	0.158
15.0	717.8	0.000	0.031	0.013	0.003	0.041	0.003	0.002	-0.005	0.011
33.4	717.8	0.079	0.075	0.102	-0.018	0.092	-0.018	0.216	0.197	0.091
51.8	717.8	0.246	0.099	0.016	-0.106	0.129	-0.133	0.113	0.444	0.101
70.2	717.8	0.121	0.116	0.152	-0.018	0.074	-0.410	0.538	0.208	0.098
88.6	717.8	-0.056	0.253	0.130	0.110	0.098	0.236	0.700	0.178	0.206
107.0	717.8	-0.112	0.193	0.060	-0.028	0.097	0.133	0.515	0.215	0.134
125.4	717.8	0.000	0.124	0.334	0.115	0.090	0.000	0.450	-0.157	0.119
15.0	699.4	0.000	-0.003	0.054	-0.005	0.019	0.001	0.010	-0.002	0.009
33.4	699.4	0.000	0.028	0.082	-0.075	0.132	-0.021	-0.064	0.451	0.067
51.8	699.4	0.000	-0.027	0.068	-0.223	0.025	-0.253	0.459	0.455	0.063
70.2	699.4	0.000	0.142	0.064	-0.030	-0.018	-0.436	0.596	0.397	0.090
88.6	699.4	0.000	0.000	0.184	0.083	0.164	0.177	0.955	0.492	0.257
107.0	699.4	0.000	0.000	0.253	0.105	0.036	0.000	0.228	0.206	0.104
125.4	699.4	0.000	0.000	0.444	0.112	0.076	0.000	0.455	0.061	0.144

# IMAGES 25 TO 32:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

660 mm long compartment; 50 mm downstand;  
no balcony; 4.61 kw heat source

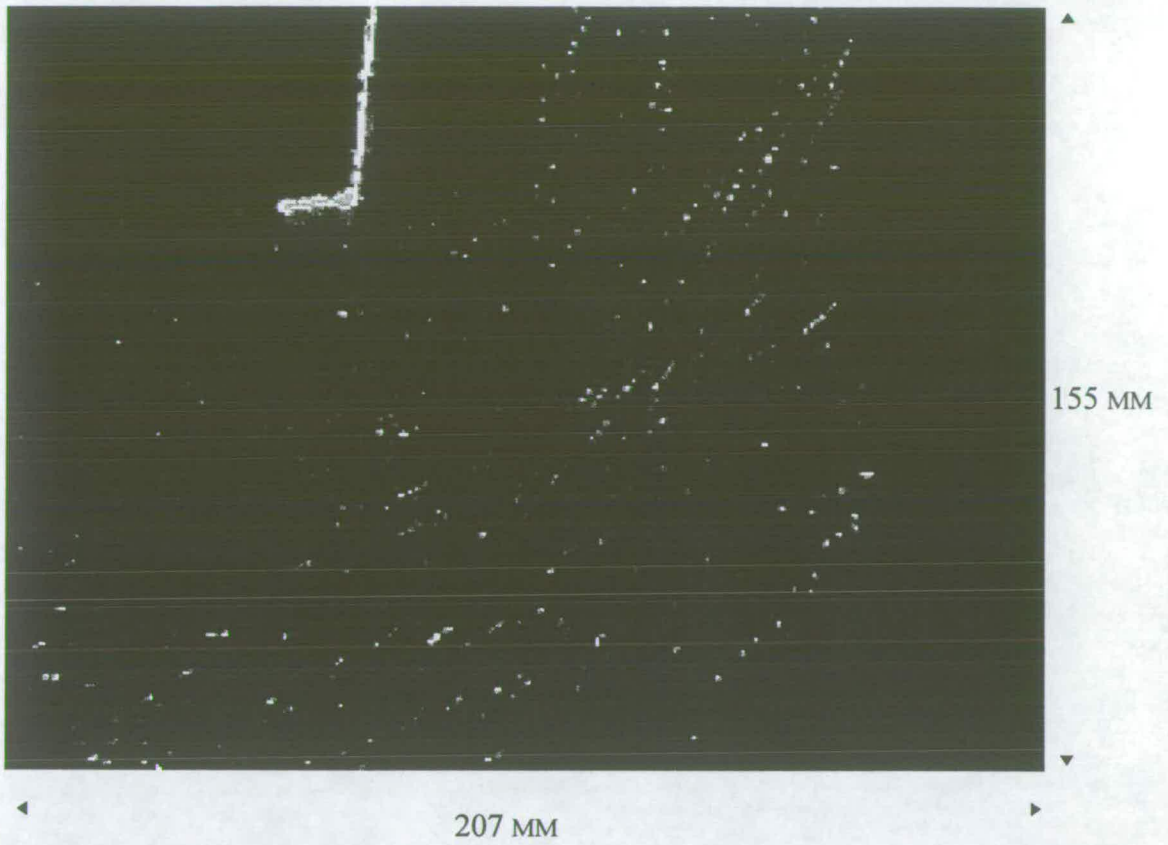


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 25 - 32

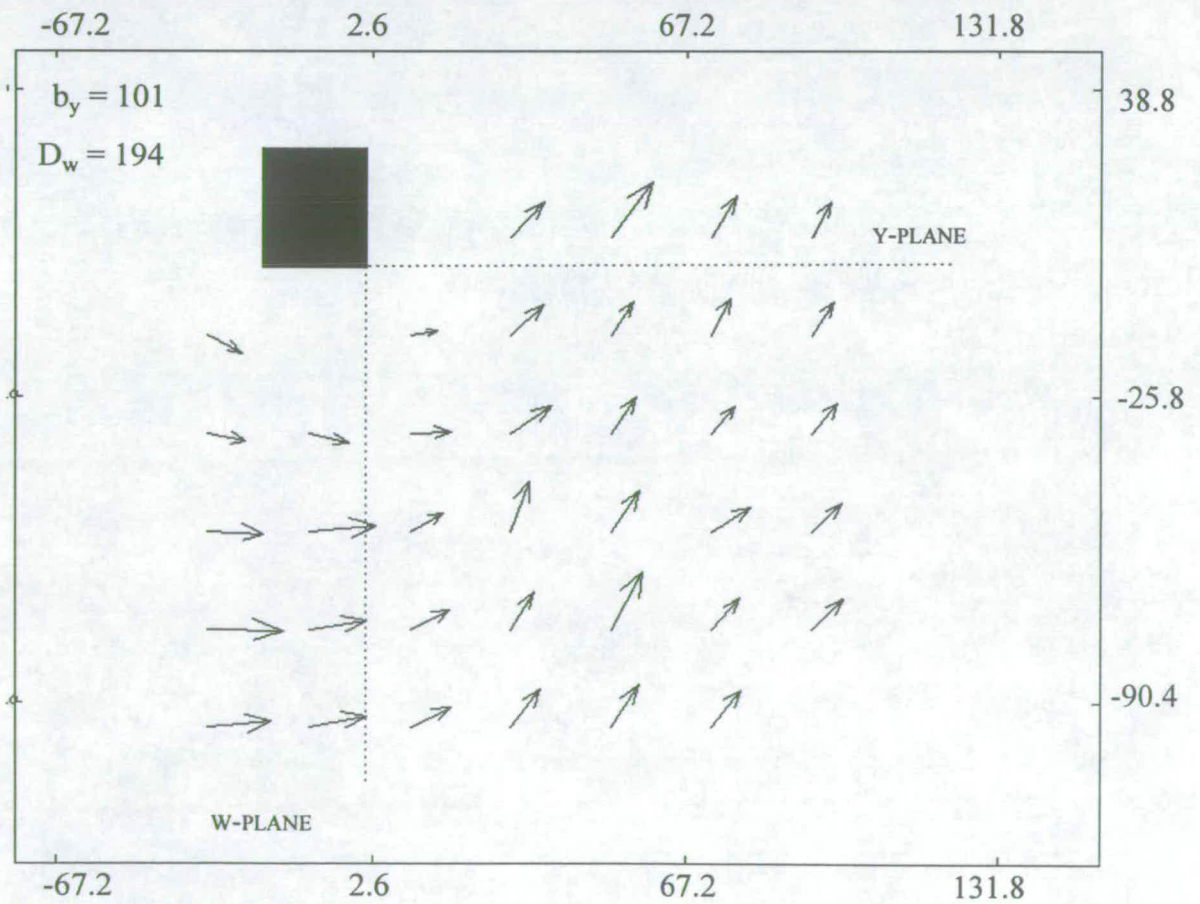
Interrogation areas 20.7 mm x 20.7 mm.

SCALE: 1 PIXEL = 0.646 MM

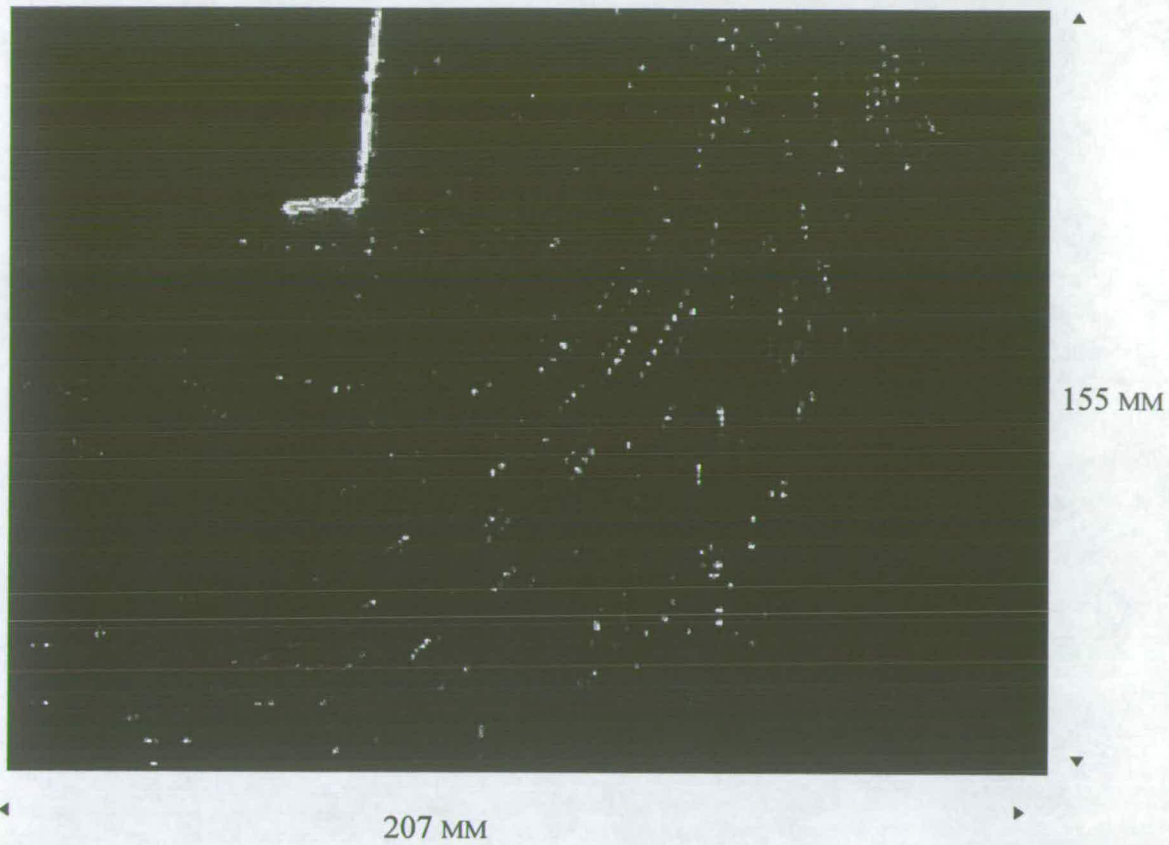
File references: d50w01, d50w02, d50w03, d50w05, d50w07, d50w08, d50w09, d50w10



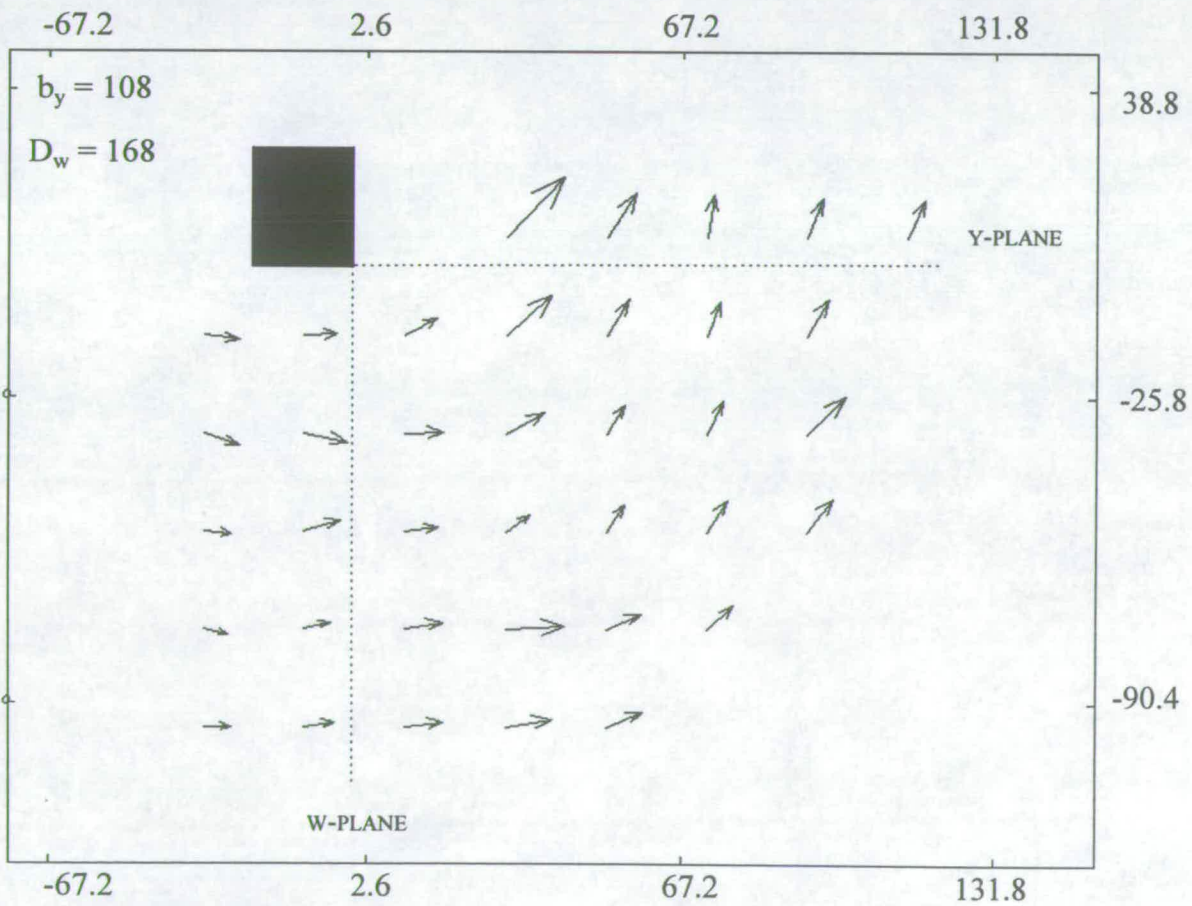
ORIGINAL IMAGE



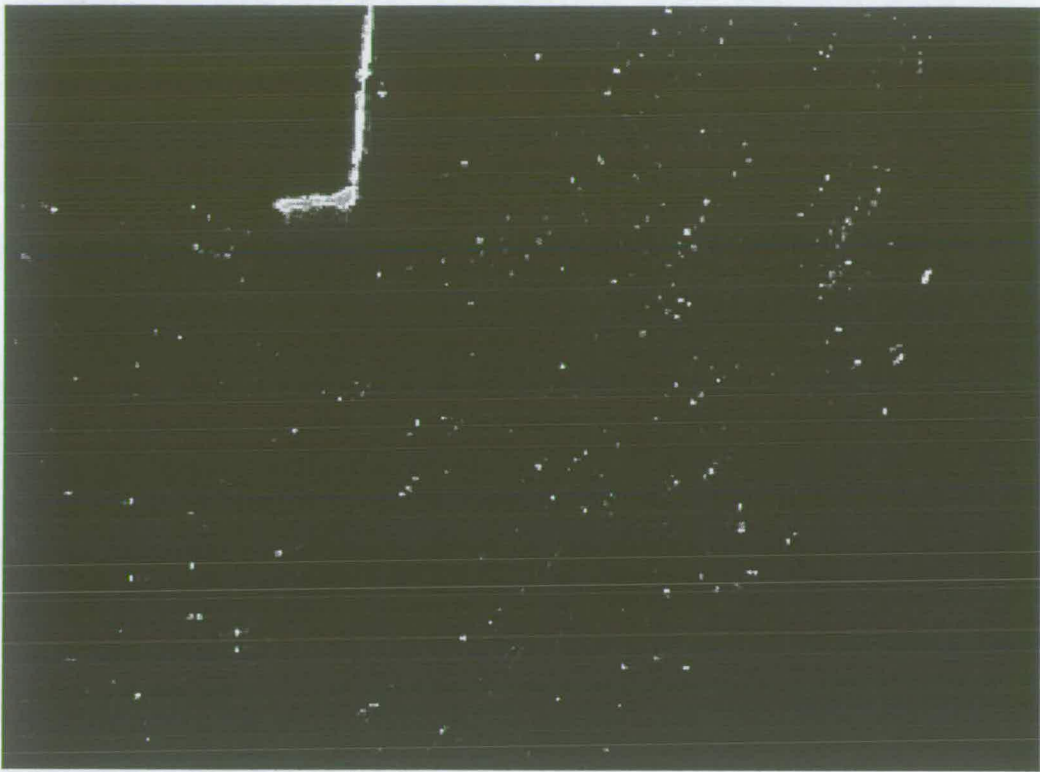
VECTOR MAP



ORIGINAL IMAGE



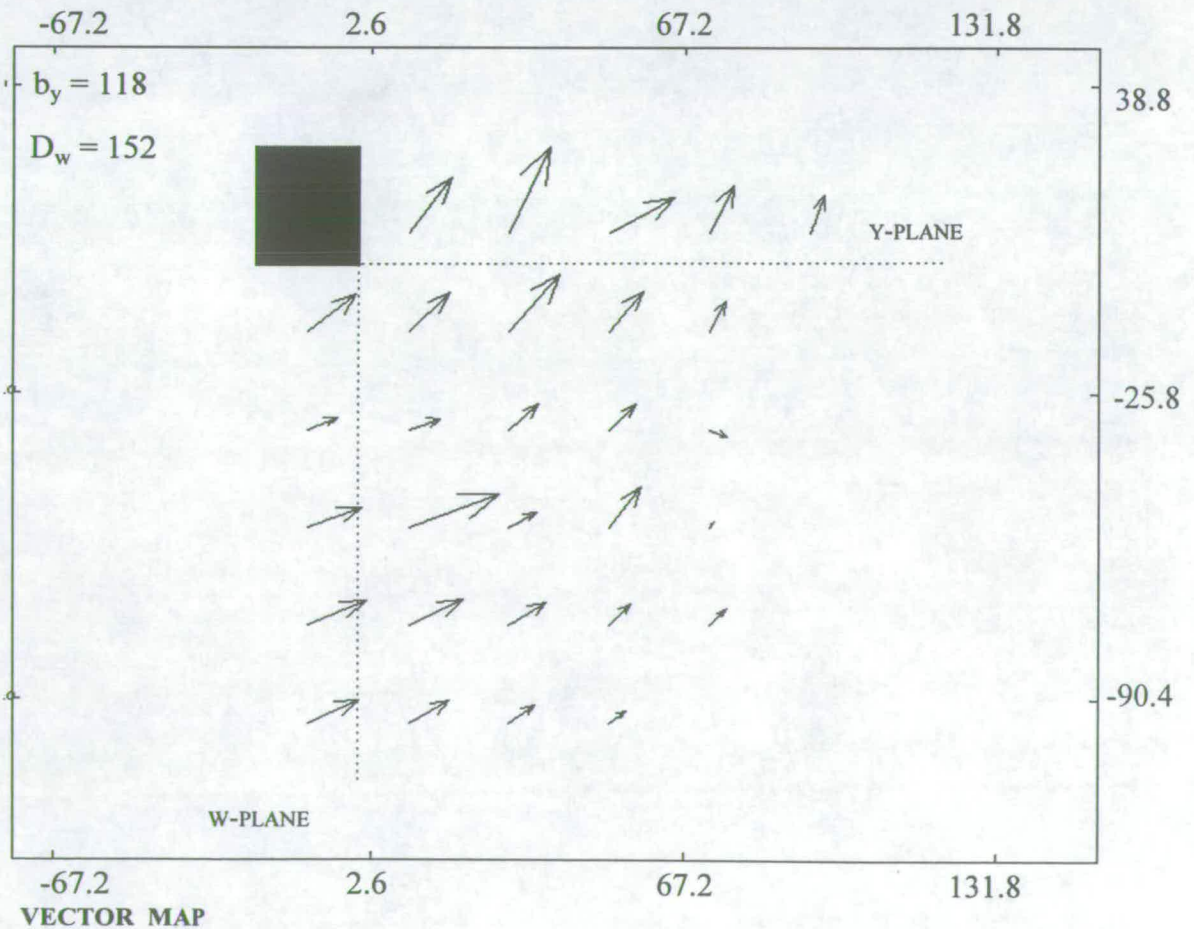
VECTOR MAP



155 MM

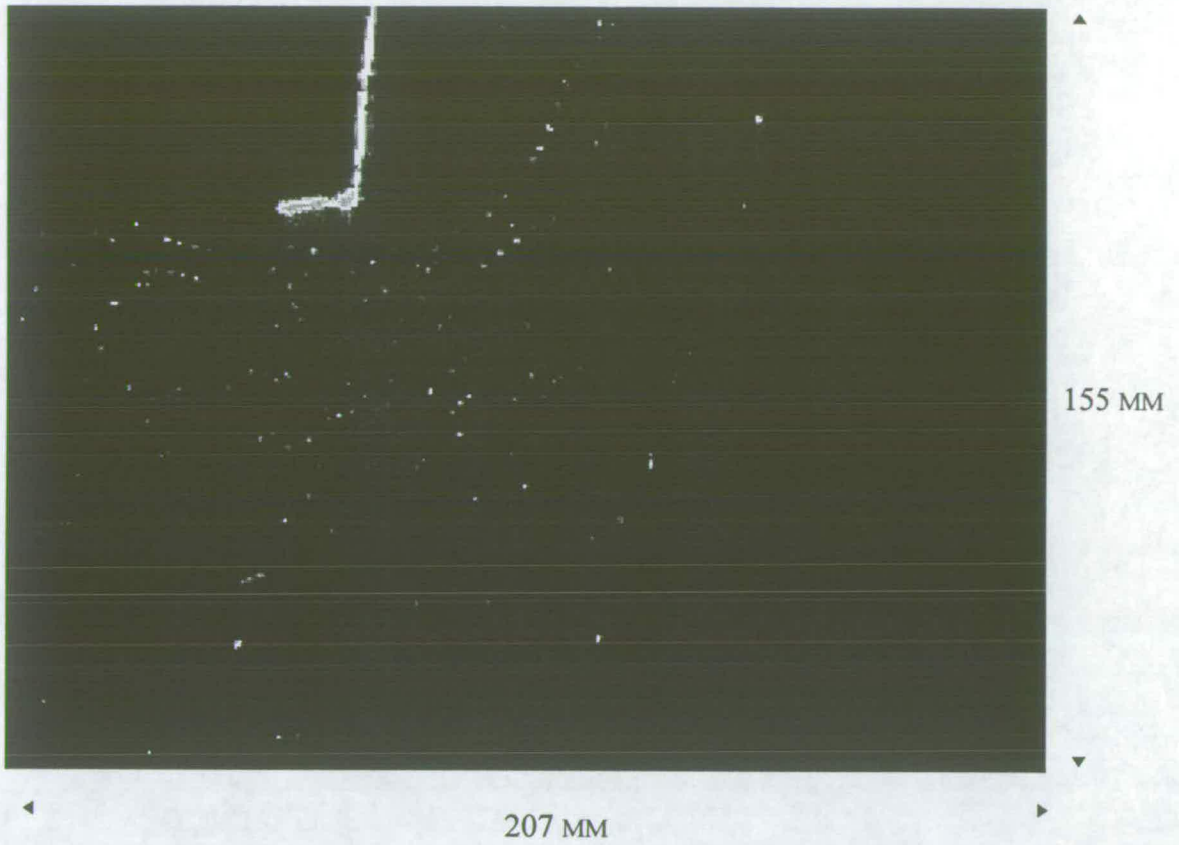
207 MM

**ORIGINAL IMAGE**

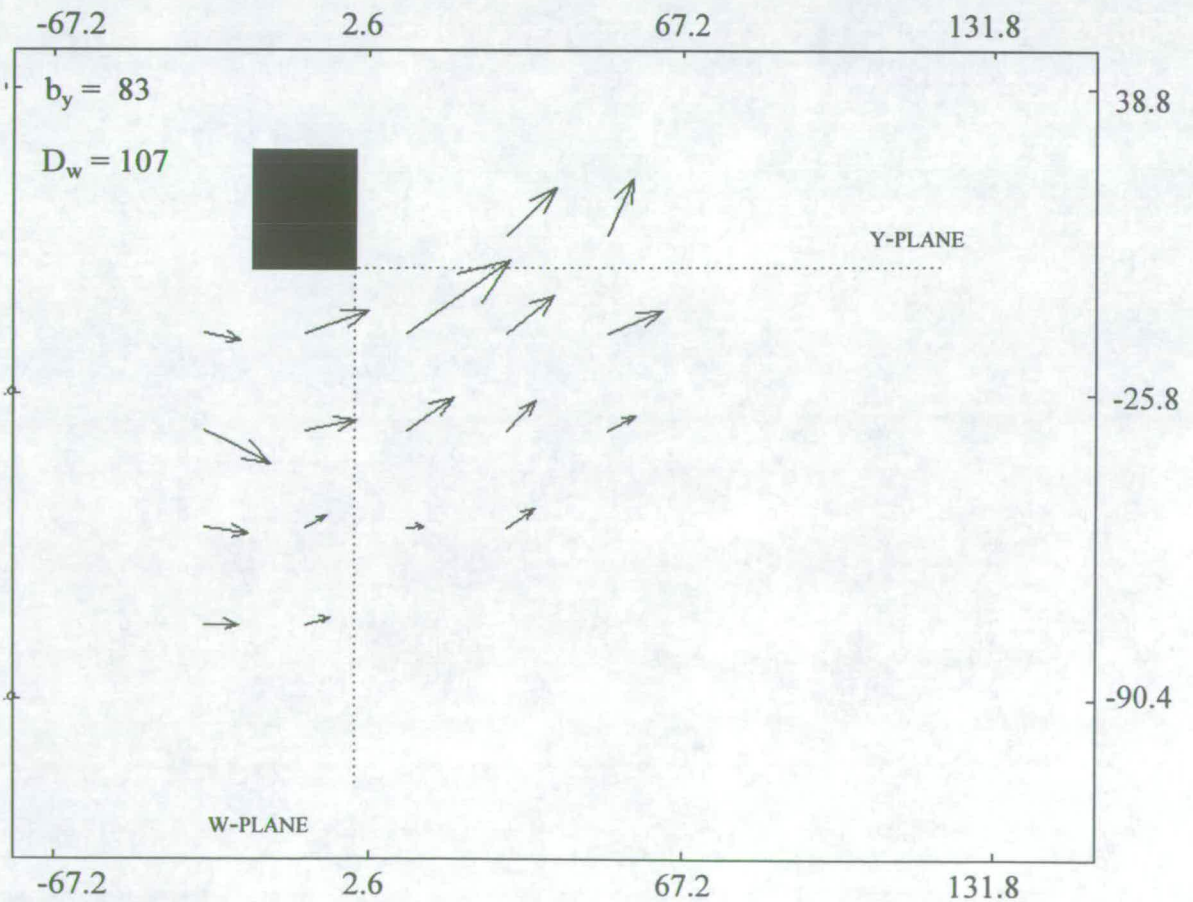


**IMAGE NO. 27**

(REF.: D50W03)



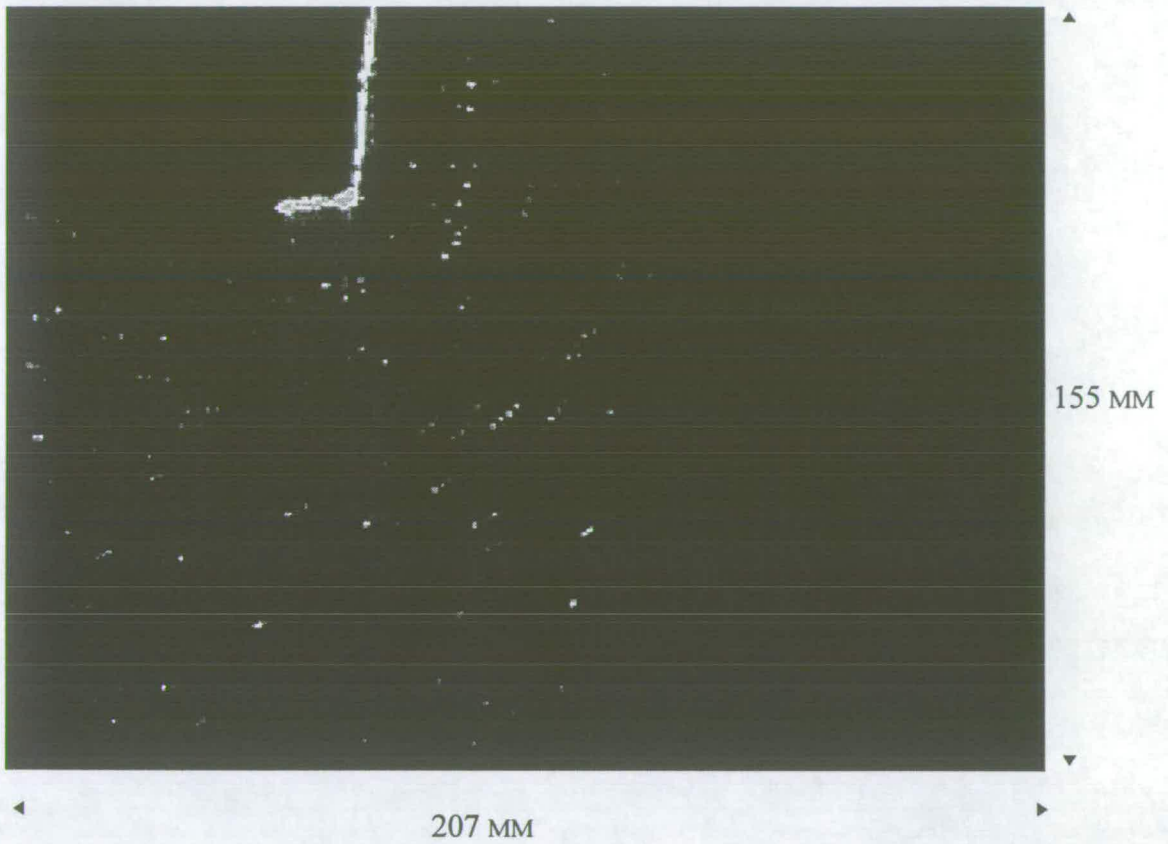
ORIGINAL IMAGE



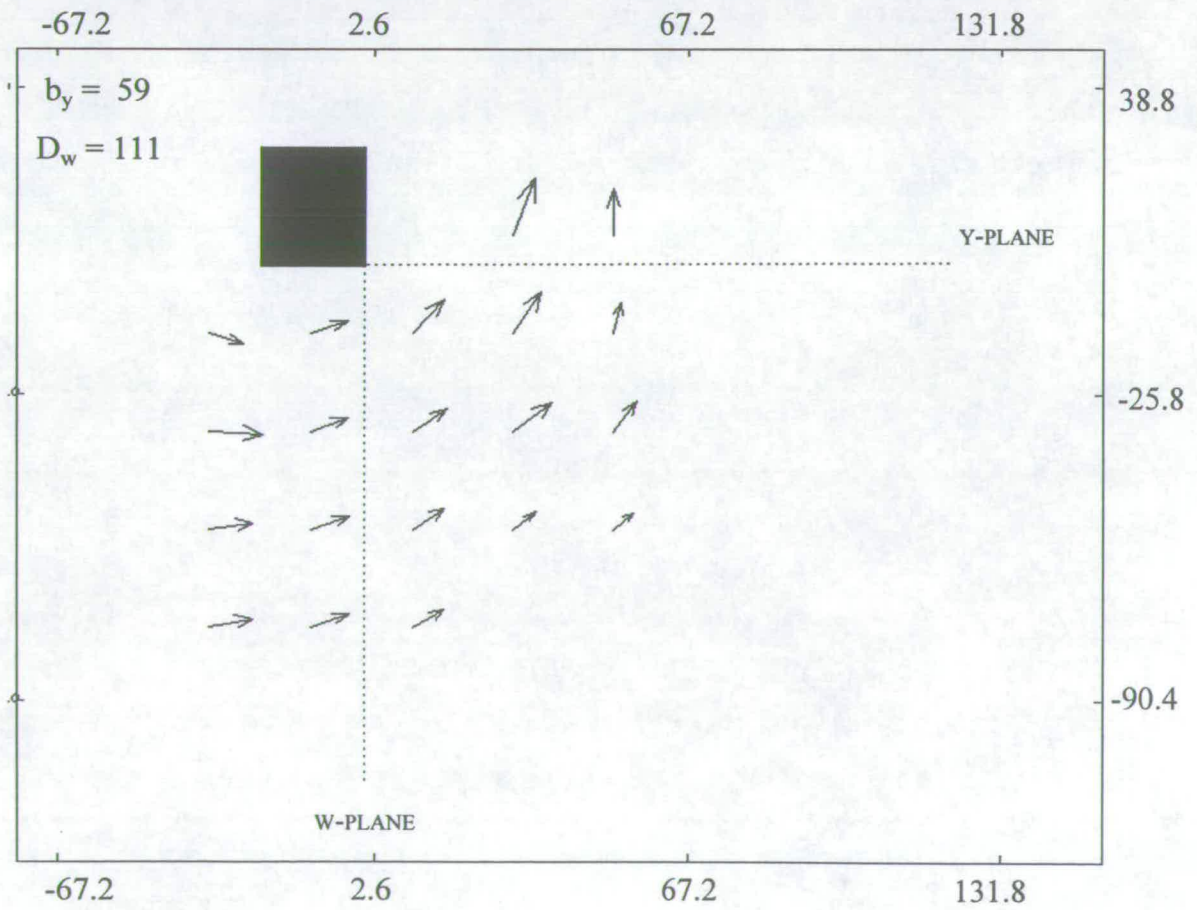
VECTOR MAP

IMAGE NO. 28

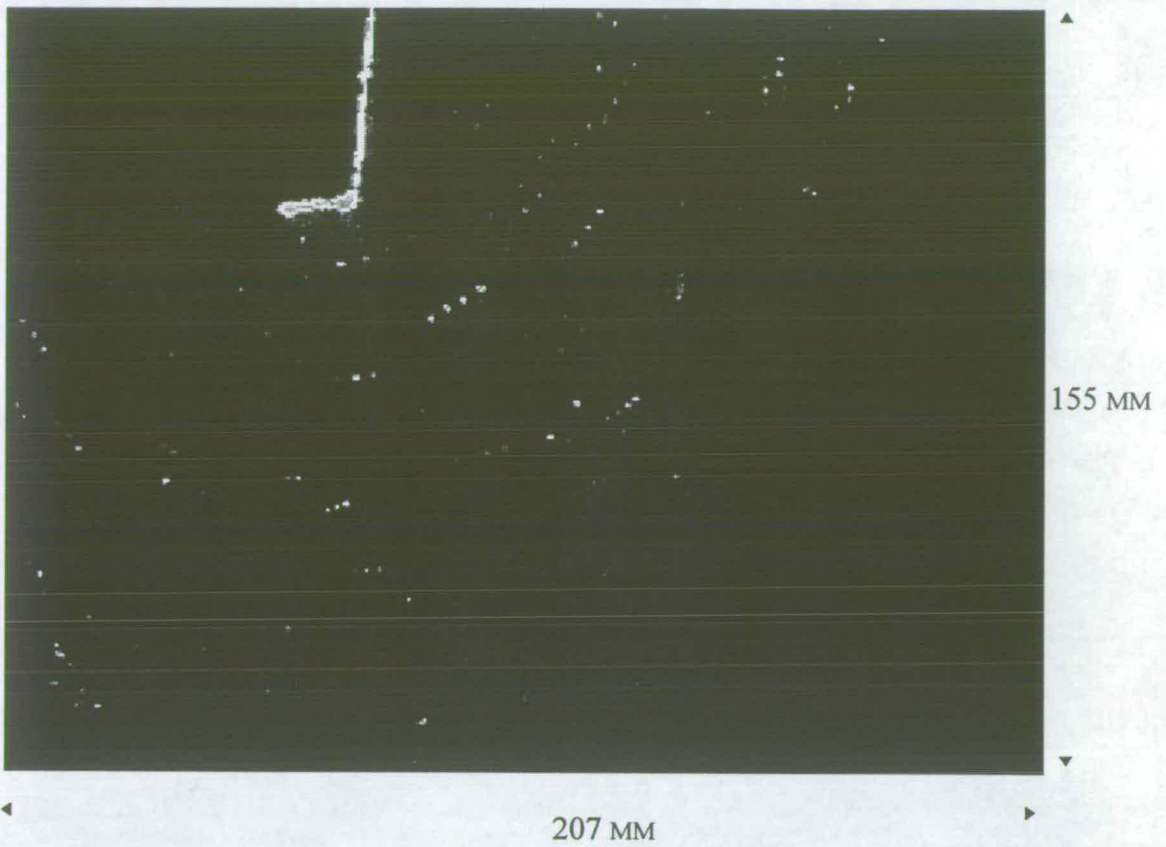
(REF.: D50W05)



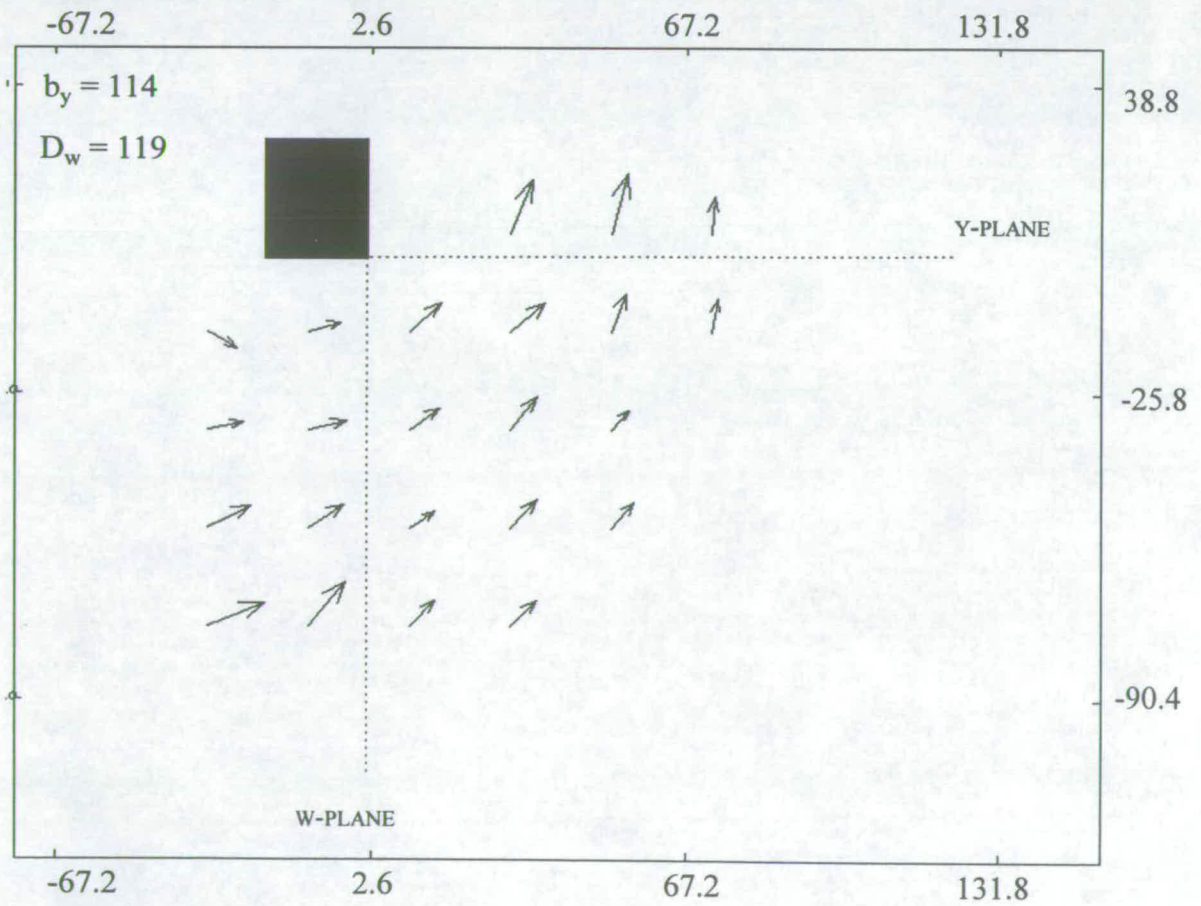
ORIGINAL IMAGE



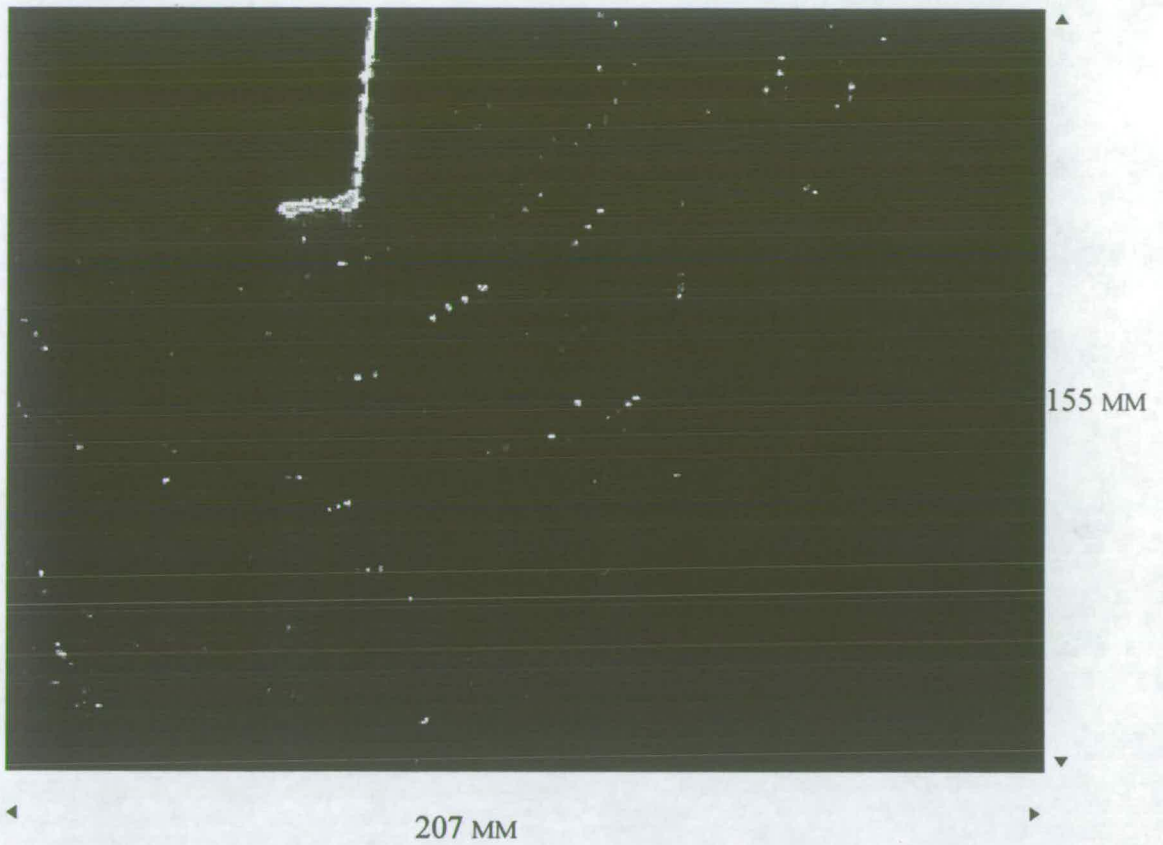
VECTOR MAP



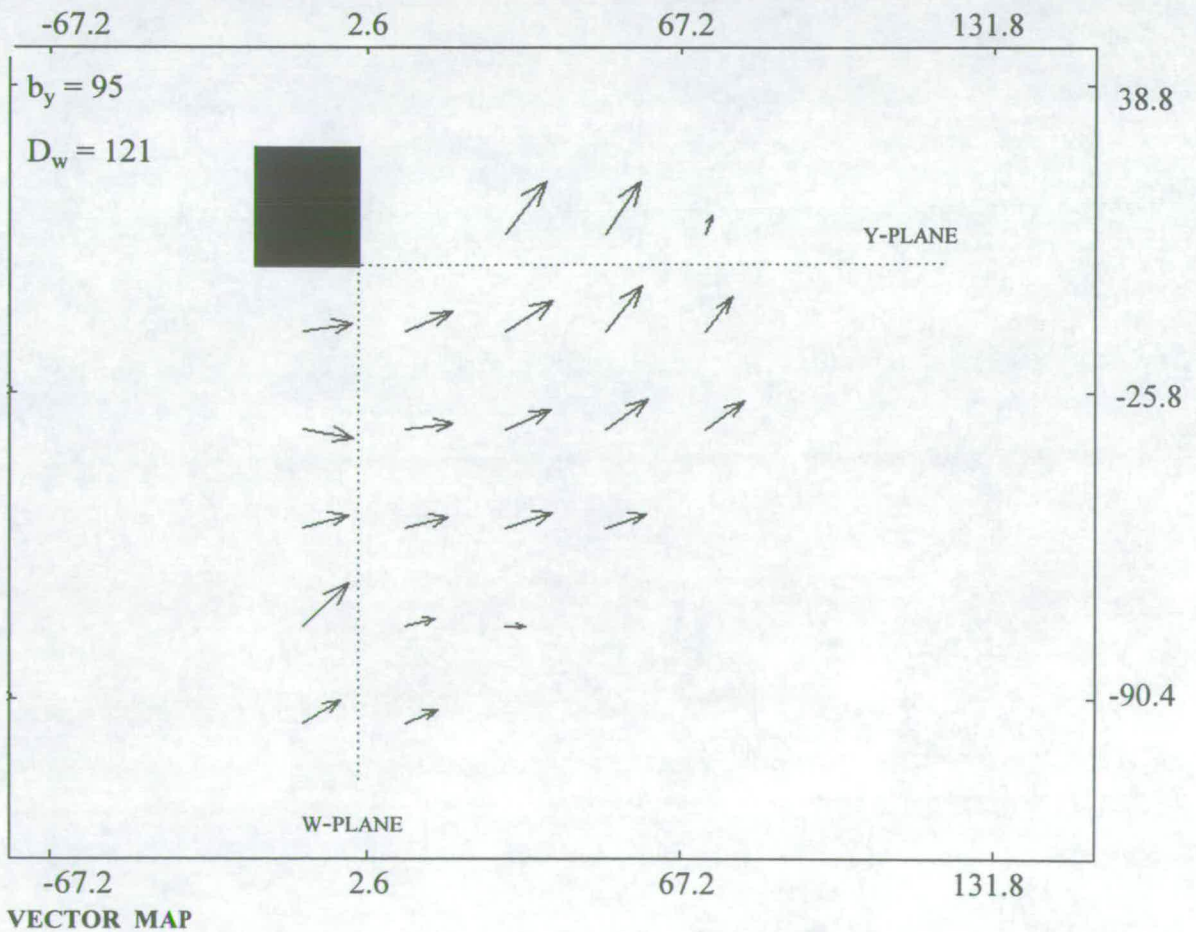
ORIGINAL IMAGE

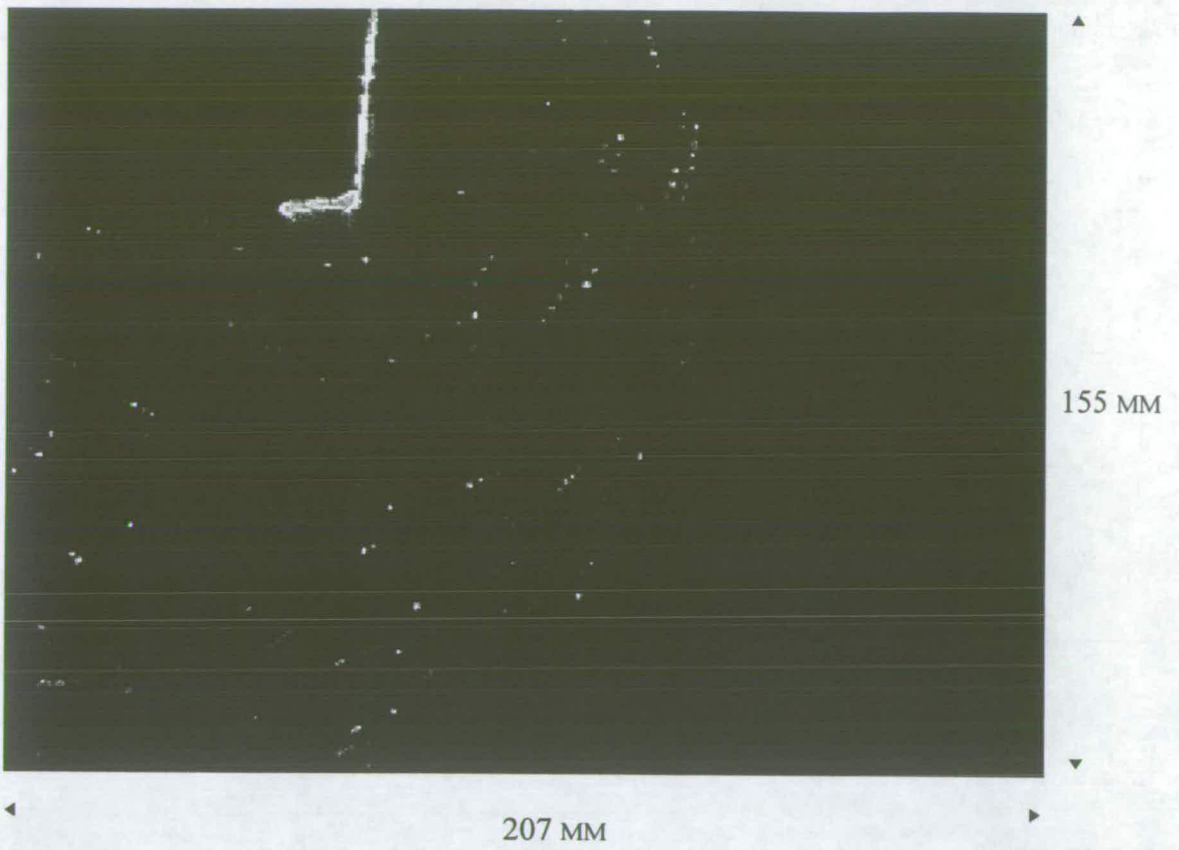


VECTOR MAP

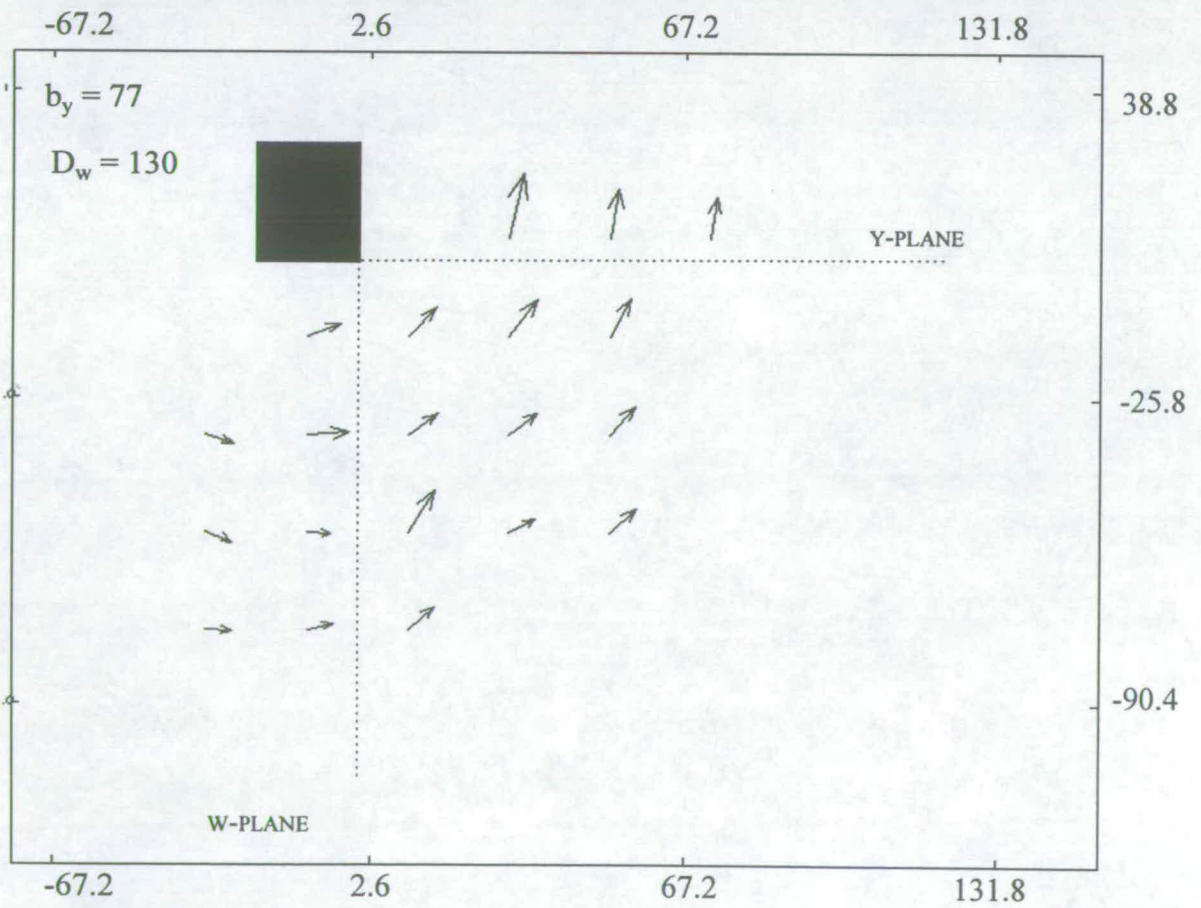


**ORIGINAL IMAGE**





ORIGINAL IMAGE



VECTOR MAP

## image 25 d50w01

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
25.8	7.8	3.611	0.466	-3.777	0.488	1.109
46.5	7.8	4.413	0.570	-5.969	0.771	1.504
67.2	7.8	2.768	0.358	-4.384	0.566	1.023
87.8	7.8	2.024	0.261	-3.757	0.485	1.000
-36.2	-12.9	3.570	0.461	2.035	-0.263	1.145
-15.5	-12.9	0.000	0.000	0.000	0.000	1.000
5.2	-12.9	2.874	0.371	-0.375	0.048	1.838
25.8	-12.9	3.566	0.461	-3.274	0.423	1.174
46.5	-12.9	2.363	0.305	-3.594	0.464	1.327
67.2	-12.9	2.066	0.267	-3.963	0.512	1.000
87.8	-12.9	2.388	0.308	-3.647	0.471	1.056
-36.2	-33.6	3.968	0.513	0.959	-0.124	1.321
-15.5	-33.6	4.186	0.541	1.071	-0.138	1.135
5.2	-33.6	4.415	0.570	-0.088	0.011	1.418
25.8	-33.6	4.410	0.570	-2.857	0.369	1.247
46.5	-33.6	2.691	0.348	-3.985	0.515	1.000
67.2	-33.6	2.606	0.337	-2.957	0.382	1.000
87.8	-33.6	2.811	0.363	-3.201	0.414	1.050
-36.2	-54.2	5.985	0.773	0.372	-0.048	1.115
-15.5	-54.2	7.097	0.917	-0.563	0.073	1.023
5.2	-54.2	3.542	0.458	-1.920	0.248	1.487
25.8	-54.2	2.142	0.277	-5.359	0.692	1.000
46.5	-54.2	3.100	0.401	-4.383	0.566	1.000
67.2	-54.2	4.306	0.556	-2.586	0.334	1.064
87.8	-54.2	3.306	0.427	-3.005	0.388	1.040
-36.2	-74.9	8.003	1.034	0.189	-0.024	1.038
-15.5	-74.9	6.028	0.779	-0.886	0.114	1.153
5.2	-74.9	4.318	0.558	-2.095	0.271	1.000
25.8	-74.9	2.581	0.333	-4.041	0.522	1.000
46.5	-74.9	3.479	0.450	-6.227	0.804	1.160
67.2	-74.9	3.135	0.405	-3.364	0.435	1.134
87.8	-74.9	3.388	0.438	-3.241	0.419	1.015
-36.2	-95.6	6.669	0.862	-0.539	0.070	1.111
-15.5	-95.6	6.013	0.777	-1.020	0.132	1.129
5.2	-95.6	4.411	0.570	-2.146	0.277	1.141
25.8	-95.6	3.241	0.419	-4.049	0.523	1.010
46.5	-95.6	3.029	0.391	-4.508	0.582	1.125
67.2	-95.6	3.313	0.428	-3.913	0.506	1.958

image 26 d50w02

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
5.2	7.8	0.000	0.000	0.000	0.000	1.000
25.8	7.8	6.019	0.778	-6.358	0.821	1.246
46.5	7.8	3.047	0.394	-4.714	0.609	1.173
67.2	7.8	0.684	0.088	-4.645	0.600	1.000
87.8	7.8	1.714	0.221	-4.177	0.540	1.000
108.5	7.8	1.898	0.245	-4.113	0.531	1.086
-36.2	-12.9	3.710	0.479	0.655	-0.085	1.022
-15.5	-12.9	3.459	0.447	-0.020	0.003	1.157
5.2	-12.9	3.490	0.451	-1.726	0.223	1.009
25.8	-12.9	4.810	0.621	-4.223	0.546	1.229
46.5	-12.9	2.364	0.305	-3.849	0.497	1.000
67.2	-12.9	1.460	0.189	-3.575	0.462	1.000
87.8	-12.9	2.340	0.302	-3.912	0.505	1.000
-36.2	-33.6	3.730	0.482	1.498	-0.194	1.771
-15.5	-33.6	4.539	0.586	1.075	-0.139	1.228
5.2	-33.6	4.098	0.530	-0.156	0.020	1.558
25.8	-33.6	4.128	0.533	-2.238	0.289	1.534
46.5	-33.6	1.971	0.255	-3.139	0.405	1.000
67.2	-33.6	1.791	0.231	-3.582	0.463	1.000
87.8	-33.6	4.180	0.540	-4.081	0.527	1.166
-36.2	-54.2	2.961	0.383	0.429	-0.055	1.470
-15.5	-54.2	3.889	0.502	-1.060	0.137	1.476
5.2	-54.2	3.646	0.471	-0.445	0.058	1.673
25.8	-54.2	2.652	0.343	-1.826	0.236	1.598
46.5	-54.2	1.929	0.249	-2.883	0.373	1.000
67.2	-54.2	2.195	0.284	-3.358	0.434	2.425
87.8	-54.2	2.857	0.369	-3.665	0.474	1.005
-36.2	-74.9	2.610	0.337	0.710	-0.092	1.254
-15.5	-74.9	2.869	0.371	-0.596	0.077	1.581
5.2	-74.9	4.025	0.520	-0.664	0.086	1.093
25.8	-74.9	6.218	0.803	-0.268	0.035	1.000
46.5	-74.9	3.737	0.483	-1.649	0.213	1.117
67.2	-74.9	2.903	0.375	-2.507	0.324	1.000
-36.2	-95.6	2.986	0.386	0.032	-0.004	1.065
-15.5	-95.6	3.257	0.421	-0.354	0.046	1.000
5.2	-95.6	4.160	0.537	-0.497	0.064	1.146
25.8	-95.6	4.877	0.630	-0.753	0.097	1.027
46.5	-95.6	3.975	0.514	-1.580	0.204	1.389

**image 27 d50w03**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
5.2	7.8	4.638	0.599	-5.882	0.760	1.000
25.8	7.8	4.367	0.564	-9.188	1.187	1.069
46.5	7.8	6.907	0.892	-3.793	0.490	1.019
67.2	7.8	2.648	0.342	-5.054	0.653	1.000
87.8	7.8	1.641	0.212	-4.050	0.523	1.000
-15.5	-12.9	5.159	0.667	-3.860	0.499	1.000
5.2	-12.9	4.480	0.579	-4.021	0.519	1.417
25.8	-12.9	5.477	0.708	-6.068	0.784	1.178
46.5	-12.9	3.516	0.454	-4.275	0.552	1.555
67.2	-12.9	1.806	0.233	-3.220	0.416	1.000
-15.5	-33.6	3.195	0.413	-1.168	0.151	1.522
5.2	-33.6	3.416	0.441	-1.124	0.145	1.636
25.8	-33.6	3.307	0.427	-2.667	0.345	1.202
46.5	-33.6	2.908	0.376	-2.714	0.351	1.151
67.2	-33.6	1.931	0.250	0.733	-0.095	1.000
-15.5	-54.2	5.733	0.741	-2.132	0.275	1.220
5.2	-54.2	9.777	1.263	-3.573	0.462	1.362
25.8	-54.2	3.089	0.399	-1.641	0.212	1.424
46.5	-54.2	3.359	0.434	-4.425	0.572	1.012
67.2	-54.2	0.619	0.080	-0.509	0.066	1.000
-15.5	-74.9	6.249	0.807	-2.531	0.327	1.000
5.2	-74.9	5.925	0.766	-2.669	0.345	1.000
25.8	-74.9	4.128	0.533	-2.469	0.319	1.000
46.5	-74.9	2.410	0.311	-2.319	0.300	1.234
67.2	-74.9	1.854	0.240	-1.730	0.224	2.021
-15.5	-95.6	5.356	0.692	-2.430	0.314	1.000
5.2	-95.6	4.498	0.581	-2.334	0.302	1.101
25.8	-95.6	2.874	0.371	-1.919	0.248	1.014
46.5	-95.6	1.879	0.243	-1.247	0.161	1.000

**image 28 d50w05**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
25.8	7.8	5.242	0.677	-5.024	0.649	1.048
46.5	7.8	2.830	0.366	-6.079	0.785	1.558
-36.2	-12.9	3.761	0.486	0.863	-0.112	1.830
-15.5	-12.9	6.799	0.878	-2.384	0.308	1.000
5.2	-12.9	11.087	1.432	-7.981	1.031	1.378
25.8	-12.9	5.128	0.662	-4.097	0.529	1.812
46.5	-12.9	5.839	0.754	-2.338	0.302	1.134
-36.2	-33.6	7.106	0.918	3.760	-0.486	1.094
-15.5	-33.6	5.409	0.699	-1.051	0.136	1.069
5.2	-33.6	5.011	0.647	-3.507	0.453	1.176
25.8	-33.6	3.132	0.405	-3.192	0.412	1.140
46.5	-33.6	3.002	0.388	-1.647	0.213	1.000
-36.2	-54.2	4.649	0.601	0.809	-0.105	1.041
-15.5	-54.2	2.350	0.304	-1.216	0.157	1.112
5.2	-54.2	1.924	0.249	-0.090	0.012	1.084
25.8	-54.2	3.074	0.397	-2.023	0.261	1.368
-36.2	-74.9	3.593	0.464	0.023	-0.003	1.273
-15.5	-74.9	2.747	0.355	-0.718	0.093	1.349

**image 29 d50w07**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			snr
mm	mm	pix/per	m/s	pix/per	m/s			
25.8	7.8	2.424	0.313	-6.026	0.779			1.703
46.5	7.8	0.144	0.019	-4.864	0.628			1.000
-36.2	-12.9	3.509	0.453	1.229	-0.159			1.062
-15.5	-12.9	3.868	0.500	-1.177	0.152			2.604
5.2	-12.9	3.352	0.433	-3.580	0.463			1.000
25.8	-12.9	3.086	0.399	-4.360	0.563			1.310
46.5	-12.9	0.902	0.117	-3.278	0.423			1.000
-36.2	-33.6	5.797	0.749	0.420	-0.054			1.007
-15.5	-33.6	3.930	0.508	-1.365	0.176			1.333
5.2	-33.6	3.796	0.490	-2.354	0.304			1.229
25.8	-33.6	4.263	0.551	-3.053	0.395			1.000
46.5	-33.6	2.625	0.339	-3.197	0.413			1.000
-36.2	-54.2	4.666	0.603	-0.631	0.081			1.047
-15.5	-54.2	4.096	0.529	-1.440	0.186			1.000
5.2	-54.2	3.435	0.444	-2.206	0.285			1.003
25.8	-54.2	2.508	0.324	-1.869	0.241			1.407
46.5	-54.2	2.222	0.287	-1.787	0.231			1.000
-36.2	-74.9	4.583	0.592	-0.804	0.104			1.731
-15.5	-74.9	4.051	0.523	-1.390	0.180			1.069
5.2	-74.9	3.476	0.449	-1.902	0.246			1.143

**image 30 d50w08**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			snr
mm	mm	pix/per	m/s	pix/per	m/s			
25.8	7.8	2.404	0.311	-5.679	0.734			1.000
46.5	7.8	1.709	0.221	-6.473	0.836			1.000
67.2	7.8	0.357	0.046	-3.877	0.501			1.000
-36.2	-12.9	3.035	0.392	1.949	-0.252			1.242
-15.5	-12.9	3.445	0.445	-0.951	0.123			1.104
5.2	-12.9	3.349	0.433	-3.164	0.409			1.016
25.8	-12.9	3.777	0.488	-3.092	0.399			1.285
46.5	-12.9	1.570	0.203	-4.111	0.531			1.000
67.2	-12.9	0.693	0.090	-3.581	0.463			1.000
-36.2	-33.6	3.803	0.491	-0.704	0.091			1.031
-15.5	-33.6	4.009	0.518	-0.860	0.111			1.758
5.2	-33.6	3.222	0.416	-2.272	0.293			1.059
25.8	-33.6	2.850	0.368	-3.572	0.461			1.288
46.5	-33.6	1.846	0.238	-2.122	0.274			1.000
-36.2	-54.2	4.547	0.587	-2.333	0.301			1.052
-15.5	-54.2	3.743	0.484	-2.447	0.316			1.075
5.2	-54.2	2.713	0.351	-1.700	0.220			1.560
25.8	-54.2	2.883	0.373	-3.017	0.390			1.000
46.5	-54.2	2.421	0.313	-2.765	0.357			1.000
-36.2	-74.9	6.066	0.784	-2.420	0.313			1.009
-15.5	-74.9	3.912	0.505	-4.673	0.604			1.000
5.2	-74.9	2.778	0.359	-2.719	0.351			1.148
25.8	-74.9	2.867	0.370	-2.805	0.362			1.000

**image 31 d50w09**

location x mm	location y mm	velocity x pix/per	velocity x m/s	velocity y pix/per	velocity y m/s	noise snr
25.8	7.8	4.352	0.562	-5.665	0.732	1.144
46.5	7.8	3.728	0.482	-5.532	0.715	1.698
67.2	7.8	0.744	0.096	-1.941	0.251	1.000
-15.5	-12.9	5.120	0.662	-0.675	0.087	1.000
5.2	-12.9	5.022	0.649	-2.003	0.259	1.604
25.8	-12.9	5.109	0.660	-3.214	0.415	2.058
46.5	-12.9	3.844	0.497	-4.912	0.635	1.886
67.2	-12.9	2.960	0.382	-3.695	0.477	1.012
-15.5	-33.6	5.253	0.679	1.011	-0.131	1.085
5.2	-33.6	5.163	0.667	-0.500	0.065	1.442
25.8	-33.6	4.935	0.638	-2.024	0.262	1.000
46.5	-33.6	4.574	0.591	-3.239	0.418	1.037
67.2	-33.6	4.168	0.539	-3.065	0.396	1.000
-15.5	-54.2	4.746	0.613	-1.333	0.172	1.065
5.2	-54.2	4.635	0.599	-1.097	0.142	1.185
25.8	-54.2	5.141	0.664	-1.503	0.194	1.519
46.5	-54.2	4.388	0.567	-1.492	0.193	1.035
-15.5	-74.9	4.822	0.623	-4.554	0.588	1.019
5.2	-74.9	3.251	0.420	-0.698	0.090	1.096
25.8	-74.9	2.207	0.285	0.000	0.000	1.051
-15.5	-95.6	3.983	0.515	-2.427	0.314	1.000
5.2	-95.6	3.511	0.454	-1.408	0.182	1.339

**image 32 d50w10**

location x mm	location y mm	velocity x pix/per	velocity x m/s	velocity y pix/per	velocity y m/s	noise snr
25.8	7.8	1.518	0.196	-6.924	0.895	1.000
46.5	7.8	0.910	0.118	-5.307	0.686	1.000
67.2	7.8	0.777	0.100	-4.493	0.580	1.000
-15.5	-12.9	3.515	0.454	-1.236	0.160	1.185
5.2	-12.9	3.100	0.400	-3.099	0.400	1.491
25.8	-12.9	3.005	0.388	-3.925	0.507	1.497
46.5	-12.9	2.242	0.290	-4.144	0.535	1.000
-36.2	-33.6	2.899	0.375	1.097	-0.142	1.738
-15.5	-33.6	4.411	0.570	-0.173	0.022	1.606
5.2	-33.6	3.312	0.428	-2.218	0.287	1.000
25.8	-33.6	3.102	0.401	-2.323	0.300	1.342
46.5	-33.6	2.685	0.347	-3.165	0.409	1.000
-36.2	-54.2	2.804	0.362	1.192	-0.154	1.390
-15.5	-54.2	2.614	0.338	0.305	-0.039	2.280
5.2	-54.2	2.860	0.369	-4.514	0.583	1.111
25.8	-54.2	2.978	0.385	-1.429	0.185	1.547
46.5	-54.2	2.847	0.368	-2.505	0.324	1.000
-36.2	-74.9	2.793	0.361	0.193	-0.025	1.087
-15.5	-74.9	2.836	0.366	-0.616	0.080	1.028
5.2	-74.9	2.860	0.370	-2.486	0.321	2.095

**Velocity Data for Images 25-32**

**Horizontal Velocities**

**50 Downstand**

**660 long Compartment**

location		d50w01	d50w02	d50w03	d50w05	d50w07	d50w08	d50w09	d50w10
mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
108.5	7.8	0.000	0.245	0.000	0.000	0.000	0.000	0.000	0.388

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
87.8	-74.9	0.438	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.8	-54.2	0.427	0.369	0.000	0.000	0.000	0.000	0.000	0.000
87.8	-33.6	0.363	0.540	0.000	0.304	0.000	0.000	0.000	0.370
87.8	-12.9	0.308	0.302	0.000	0.699	0.000	0.000	0.000	0.362
87.8	7.8	0.261	0.221	0.212	0.878	0.000	0.000	0.000	0.400

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
67.2	-95.6	0.428	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.2	-74.9	0.405	0.375	0.240	0.000	0.000	0.000	0.454	0.000
67.2	-54.2	0.556	0.284	0.080	0.000	0.000	0.000	0.000	0.000
67.2	-33.6	0.337	0.231	0.250	0.601	0.000	0.000	0.539	0.366
67.2	-12.9	0.267	0.189	0.233	0.918	0.000	0.090	0.382	0.347
67.2	7.8	0.358	0.088	0.342	0.486	0.000	0.046	0.096	0.454

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
46.5	-95.6	0.391	0.514	0.243	0.000	0.000	0.000	0.000	0.000
46.5	-74.9	0.450	0.483	0.311	0.000	0.000	0.000	0.515	0.000
46.5	-54.2	0.401	0.249	0.434	0.000	0.287	0.313	0.567	0.000
46.5	-33.6	0.348	0.255	0.376	0.388	0.339	0.238	0.591	0.361
46.5	-12.9	0.305	0.305	0.454	0.754	0.117	0.203	0.497	0.401
46.5	7.8	0.570	0.394	0.892	0.366	0.019	0.221	0.482	0.100

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
25.8	-95.6	0.419	0.630	0.371	0.000	0.000	0.000	0.000	0.000
25.8	-74.9	0.333	0.803	0.533	0.000	0.000	0.370	0.285	0.000
25.8	-54.2	0.277	0.343	0.399	0.397	0.324	0.373	0.664	0.000
25.8	-33.6	0.570	0.533	0.427	0.405	0.551	0.368	0.638	0.368
25.8	-12.9	0.461	0.621	0.708	0.662	0.399	0.488	0.660	0.428
25.8	7.8	0.466	0.778	0.564	0.677	0.313	0.311	0.562	0.118

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
5.2	-95.6	0.570	0.537	0.581	0.000	0.000	0.000	0.000	0.000
5.2	-74.9	0.558	0.520	0.766	0.000	0.449	0.359	0.420	0.000
5.2	-54.2	0.458	0.471	1.263	0.249	0.444	0.351	0.599	0.000
5.2	-33.6	0.570	0.530	0.441	0.647	0.490	0.416	0.667	0.385
5.2	-12.9	0.371	0.451	0.579	1.432	0.433	0.433	0.649	0.570
5.2	7.8	0.000	0.000	0.599	0.000	0.000	0.000	0.000	0.196

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
-15.5	-95.6	0.777	0.421	0.692	0.000	0.000	0.000	0.000	0.000
-15.5	-74.9	0.779	0.371	0.807	0.355	0.523	0.505	0.623	0.000
-15.5	-54.2	0.917	0.502	0.741	0.000	0.529	0.484	0.613	0.000
-15.5	-33.6	0.541	0.586	0.413	0.000	0.508	0.518	0.679	0.369
-15.5	-12.9	0.000	0.447	0.667	0.000	0.500	0.445	0.662	0.375

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
-36.2	-95.6	0.862	0.386	0.000	0.000	0.000	0.000	0.000	0.000
-36.2	-74.9	1.034	0.337	0.000	0.464	0.592	0.784	0.000	0.000
-36.2	-54.2	0.773	0.383	0.000	0.000	0.603	0.587	0.000	0.000
-36.2	-33.6	0.513	0.482	0.000	0.000	0.749	0.491	0.000	0.338
-36.2	-12.9	0.461	0.479	0.000	0.000	0.453	0.392	0.000	0.290

**Velocity Data for Images 25-32**

**Vertical Velocities**

**50 Downstand**

**660 long Compartment**

location		d50w01	d50w02	d50w03	d50w05	d50w07	d50w08	d50w09	d50w10
mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
108.5	7.8	0.000	0.531	0.000	0.000	0.000	0.000	0.000	0.507

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
87.8	-74.9	0.419	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.8	-54.2	0.388	0.474	0.000	0.000	0.000	0.000	0.000	0.000
87.8	-33.6	0.414	0.527	0.000	0.157	0.000	0.000	0.000	0.321
87.8	-12.9	0.471	0.505	0.000	0.136	0.000	0.000	0.000	-0.154
87.8	7.8	0.485	0.540	0.523	0.308	0.000	0.000	0.000	0.400

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
67.2	-95.6	0.506	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67.2	-74.9	0.435	0.324	0.224	0.000	0.000	0.000	0.182	0.000
67.2	-54.2	0.334	0.434	0.066	0.000	0.000	0.000	0.000	0.000
67.2	-33.6	0.382	0.463	-0.095	-0.105	0.000	0.000	0.396	0.080
67.2	-12.9	0.512	0.462	0.416	-0.486	0.000	0.463	0.477	0.409
67.2	7.8	0.566	0.600	0.653	-0.112	0.000	0.501	0.251	0.160

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
46.5	-95.6	0.582	0.204	0.161	0.000	0.000	0.000	0.000	0.000
46.5	-74.9	0.804	0.213	0.300	0.000	0.000	0.000	0.314	0.000
46.5	-54.2	0.566	0.373	0.572	0.000	0.231	0.357	0.193	0.000
46.5	-33.6	0.515	0.405	0.351	0.213	0.413	0.274	0.418	-0.025
46.5	-12.9	0.464	0.497	0.552	0.302	0.423	0.531	0.635	0.300
46.5	7.8	0.771	0.609	0.490	0.785	0.628	0.836	0.715	0.580

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
25.8	-95.6	0.523	0.097	0.248	0.000	0.000	0.000	0.000	0.000
25.8	-74.9	0.522	0.035	0.319	0.000	0.000	0.362	0.000	0.000
25.8	-54.2	0.692	0.236	0.212	0.261	0.241	0.390	0.194	0.000
25.8	-33.6	0.369	0.289	0.345	0.412	0.395	0.461	0.262	0.324
25.8	-12.9	0.423	0.546	0.784	0.529	0.563	0.399	0.415	0.287
25.8	7.8	0.488	0.821	1.187	0.649	0.779	0.734	0.732	0.686

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
5.2	-95.6	0.277	0.064	0.302	0.000	0.000	0.000	0.000	0.000
5.2	-74.9	0.271	0.086	0.345	0.000	0.246	0.351	0.090	0.000
5.2	-54.2	0.248	0.058	0.462	0.012	0.285	0.220	0.142	0.000
5.2	-33.6	0.011	0.020	0.145	0.453	0.304	0.293	0.065	0.185
5.2	-12.9	0.048	0.223	0.519	1.031	0.463	0.409	0.259	0.022
5.2	7.8	0.000	0.000	0.760	0.000	0.000	0.000	0.000	0.895

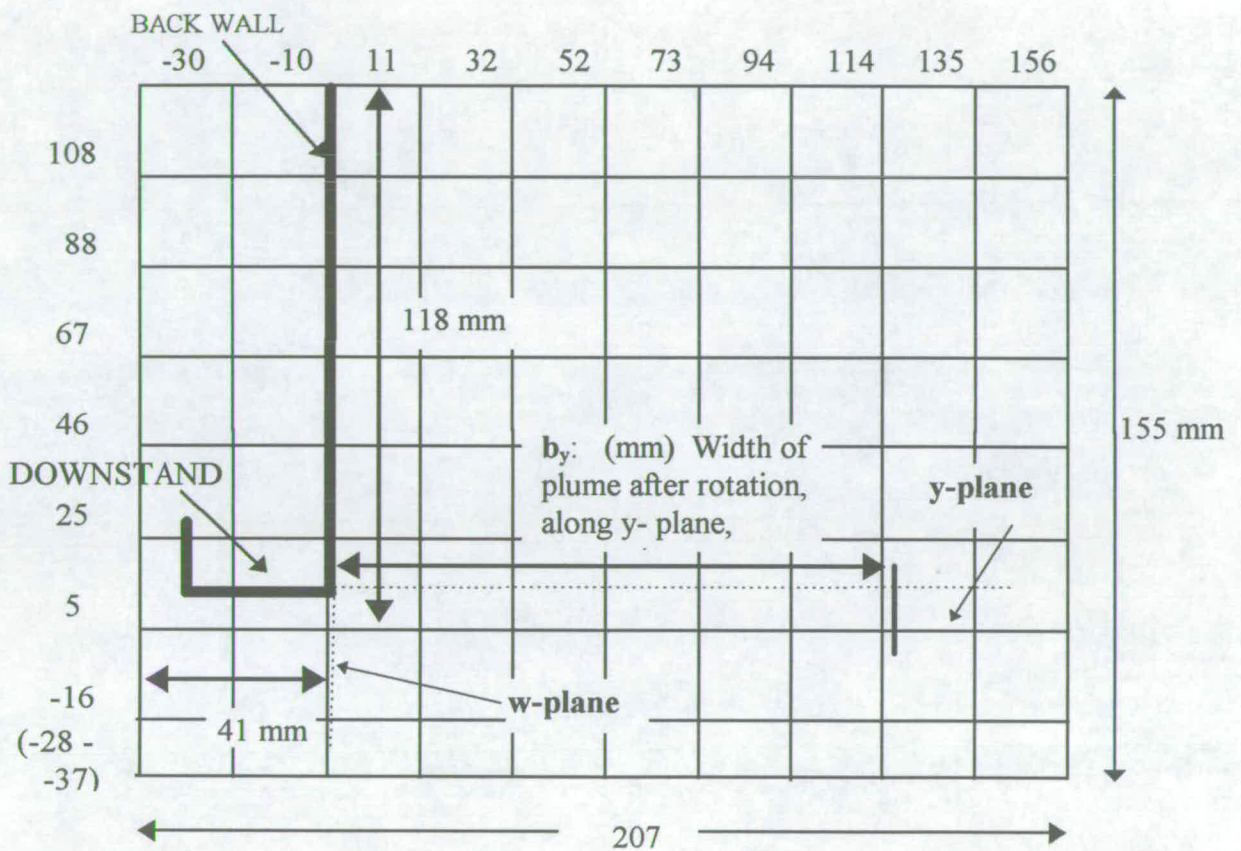
mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
-15.5	-95.6	0.132	0.046	0.314	0.000	0.000	0.000	0.000	0.000
-15.5	-74.9	0.114	0.077	0.327	0.093	0.180	0.604	0.588	0.000
-15.5	-54.2	0.073	0.137	0.275	0.000	0.186	0.316	0.172	0.000
-15.5	-33.6	-0.138	-0.139	0.151	0.000	0.176	0.111	-0.131	0.583
-15.5	-12.9	0.000	0.003	0.499	0.000	0.152	0.123	0.087	-0.142

mm	mm	im25	im26	im27	im28	im29	im30	im31	im32
-36.2	-95.6	0.070	-0.004	0.000	0.000	0.000	0.000	0.000	0.000
-36.2	-74.9	-0.024	-0.092	0.000	-0.003	0.104	0.313	0.000	0.000
-36.2	-54.2	-0.048	-0.055	0.000	0.000	0.081	0.301	0.000	0.000
-36.2	-33.6	-0.124	-0.194	0.000	0.000	-0.054	0.091	0.000	-0.039
-36.2	-12.9	-0.263	-0.085	0.000	0.000	-0.159	-0.252	0.000	0.535

# IMAGES 33 TO 40:

## FLOW FROM FIRE COMPARTMENT (Y-PLANE)

660 mm long compartment; 50 mm downstand;  
no balcony; 4.61 kw heat source

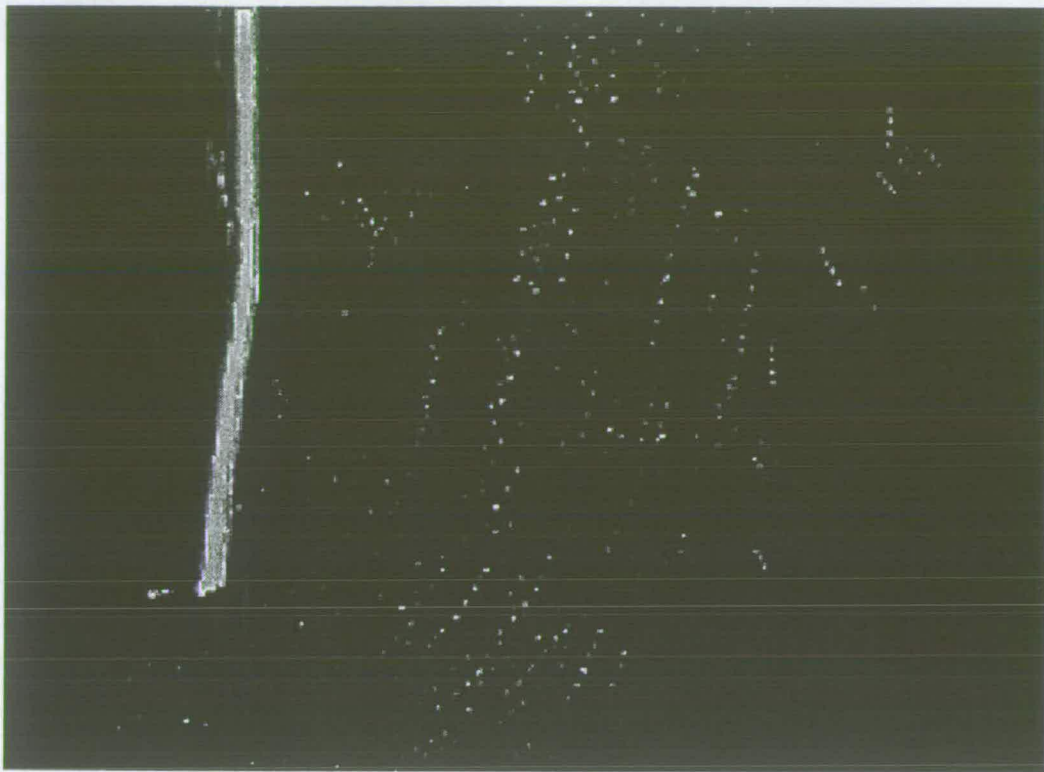


## INTERROGATION AREAS AND LOCATIONS FOR IMAGES 33 - 40

Interrogation areas 20.7 mm x 20.7 mm.

SCALE: 1 PIXEL = 0.646 MM

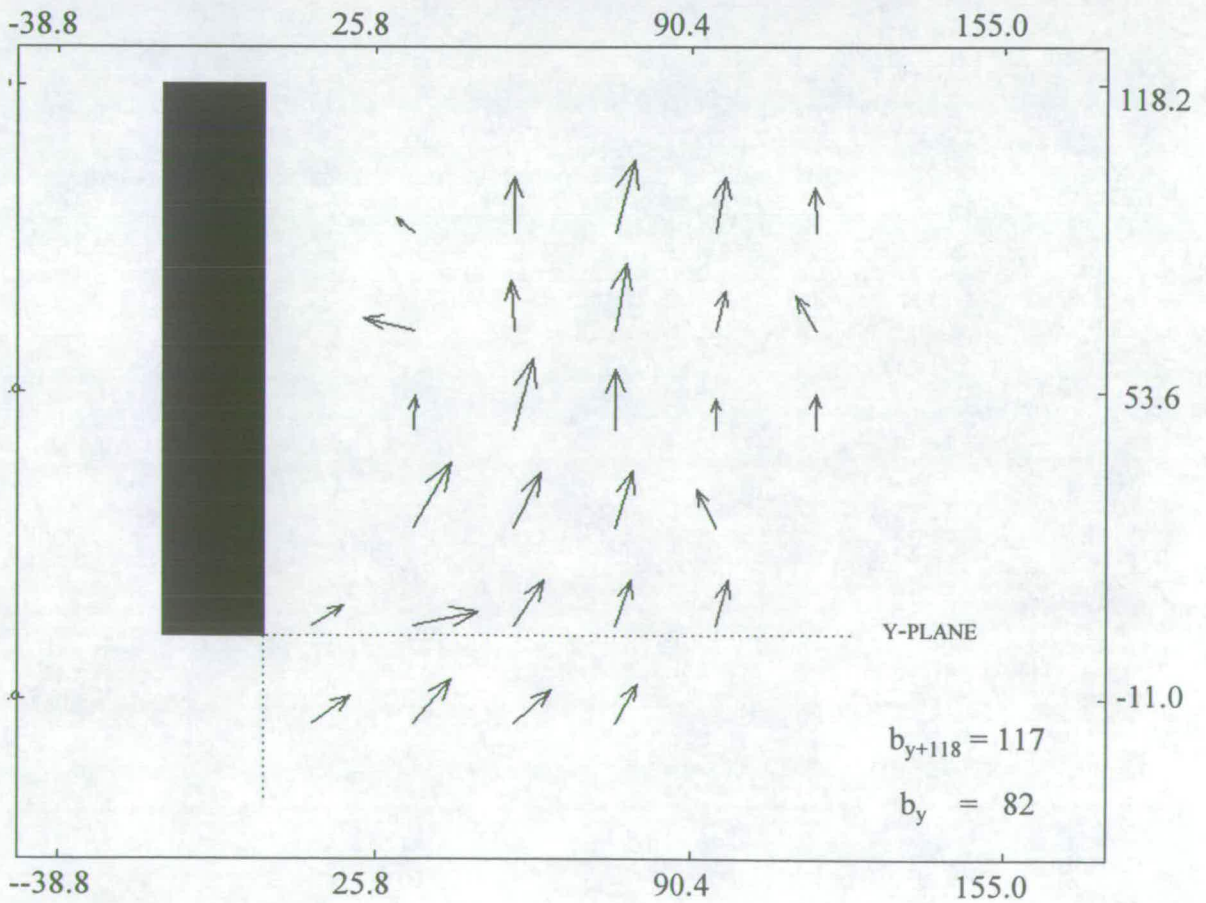
File references: d50y01, d50y02, d50y03, d50y05, d50y06, d50y07, d50y09, d50y13.



155 MM

207 MM

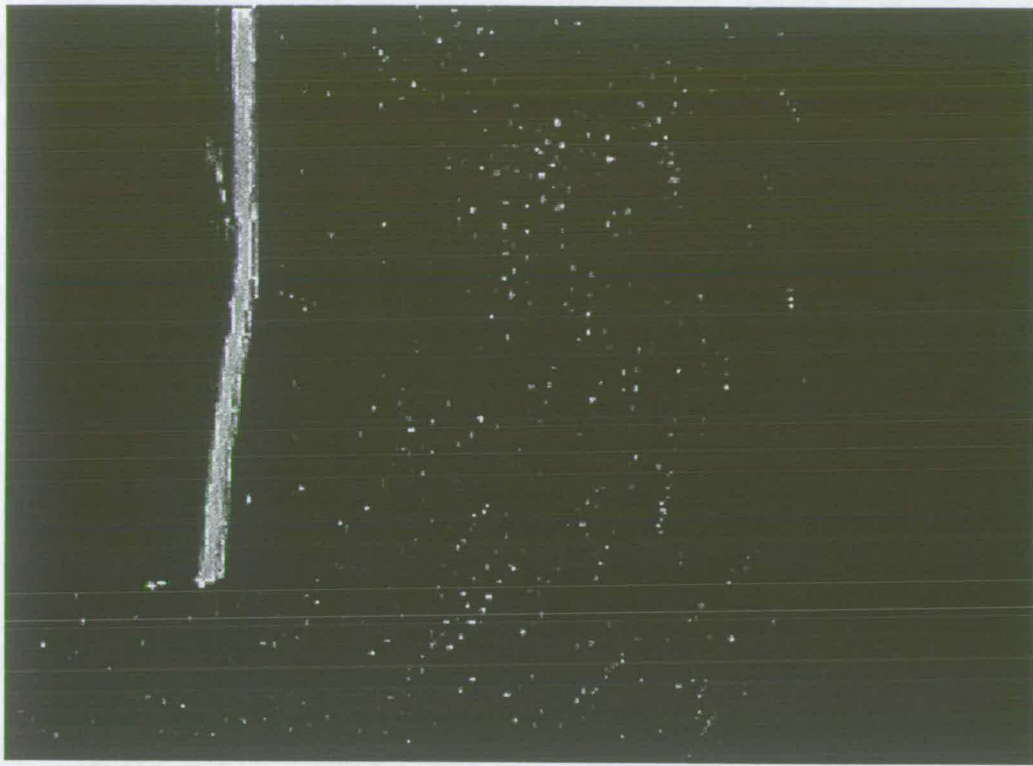
ORIGINAL IMAGE



VECTOR MAP

IMAGE No. 33

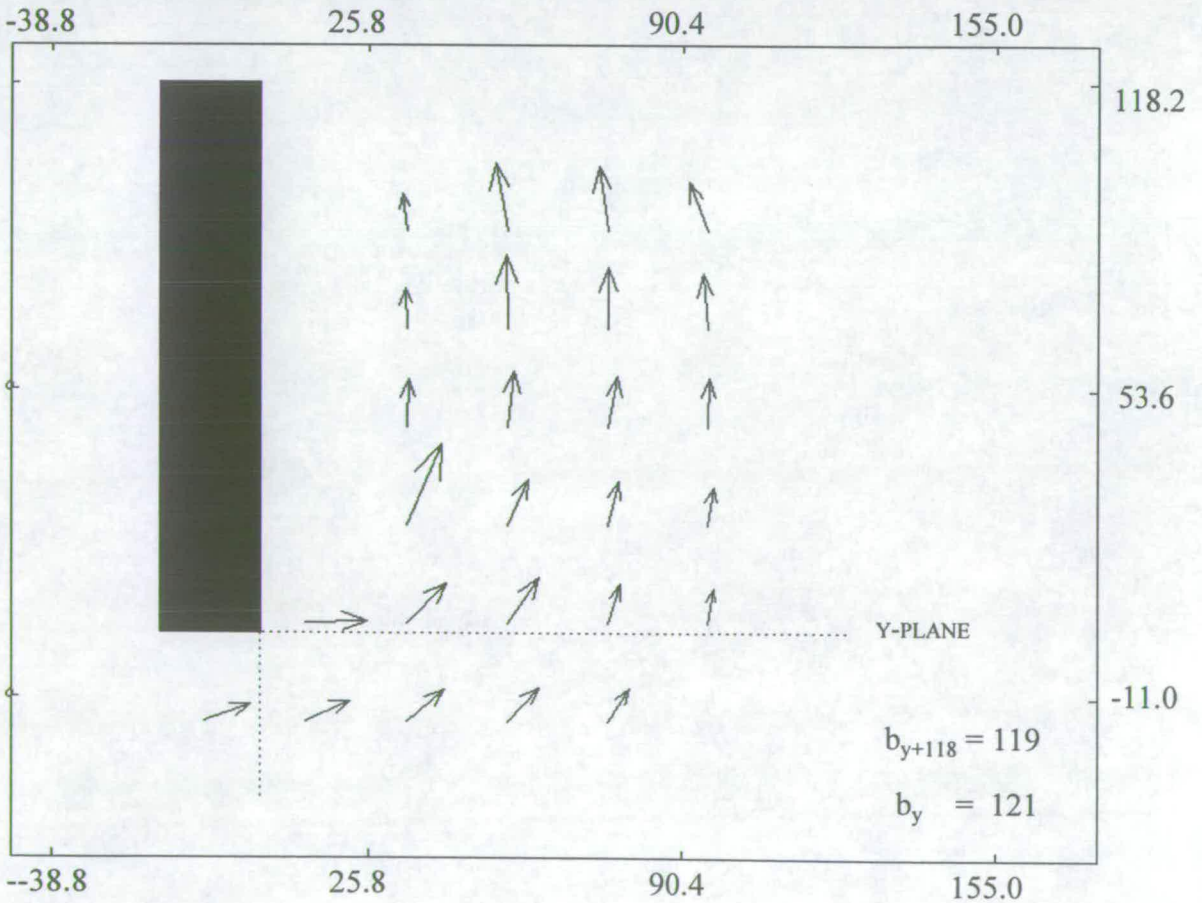
(REF.: D50Y01)



155 MM

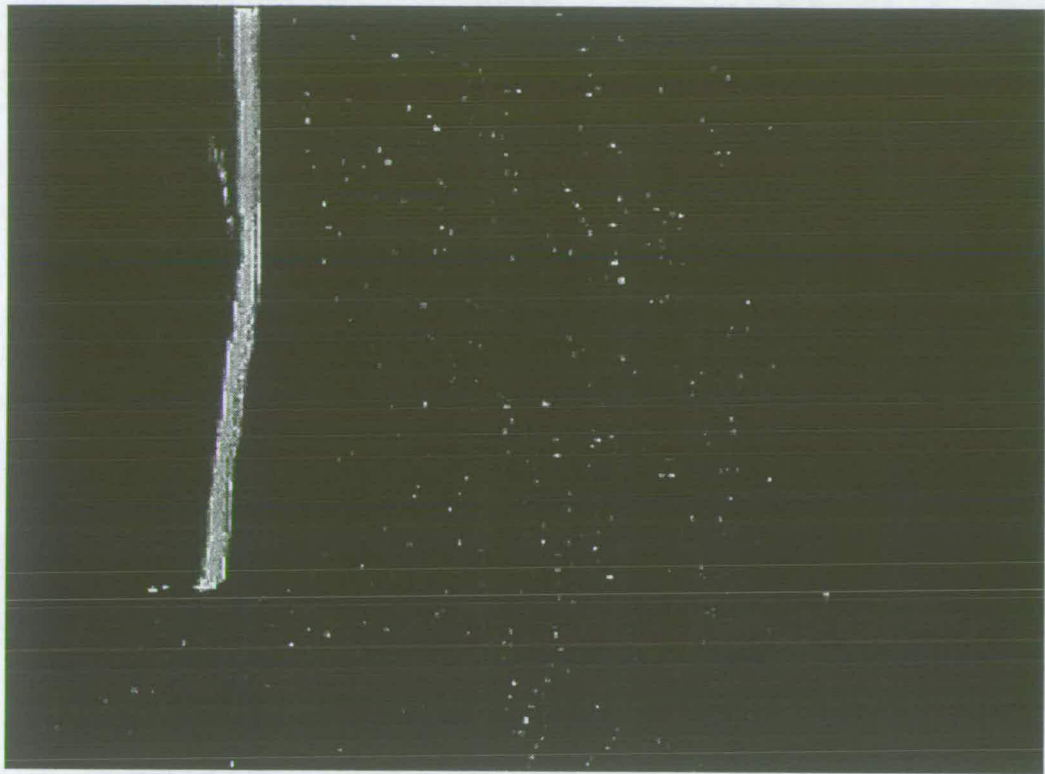
207 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 34

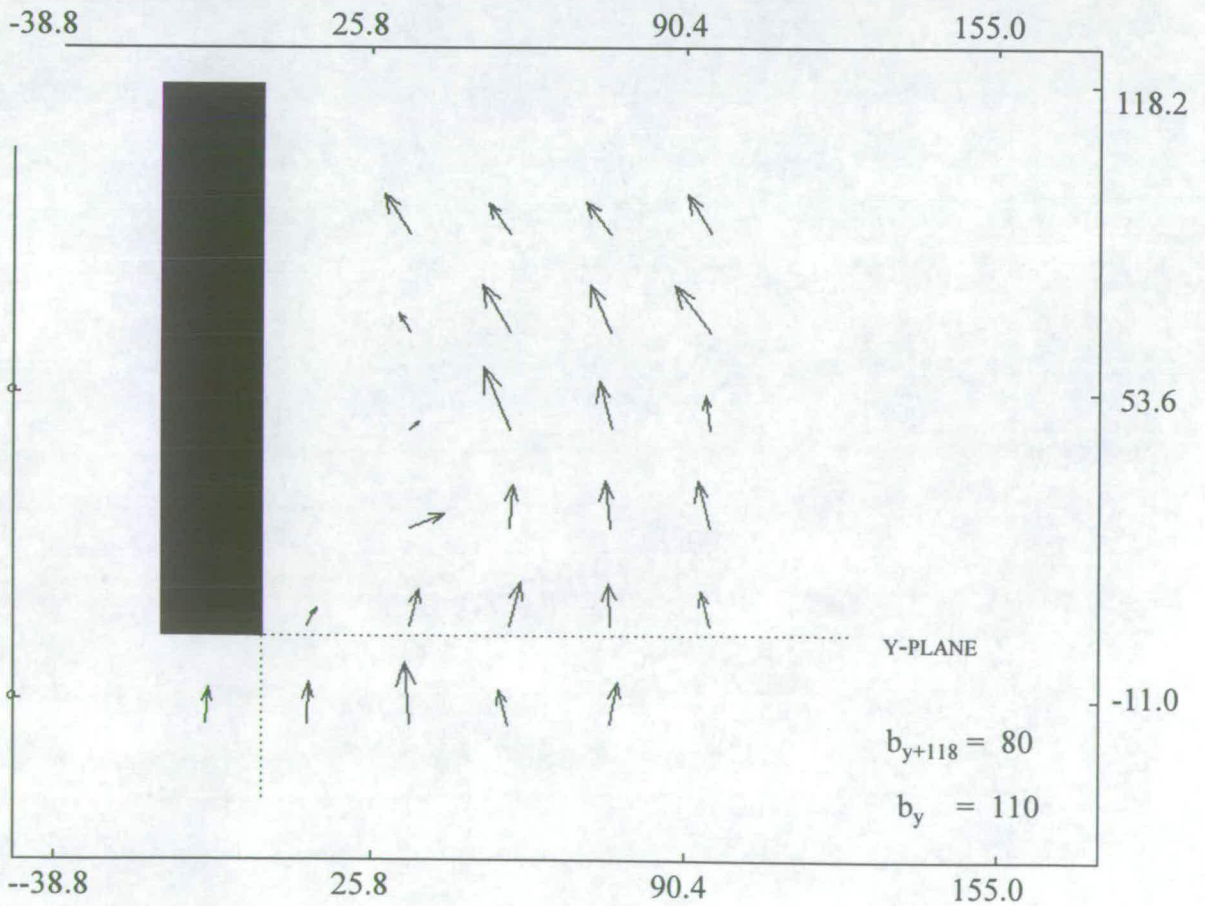
(REF.: D50Y02)



155 MM

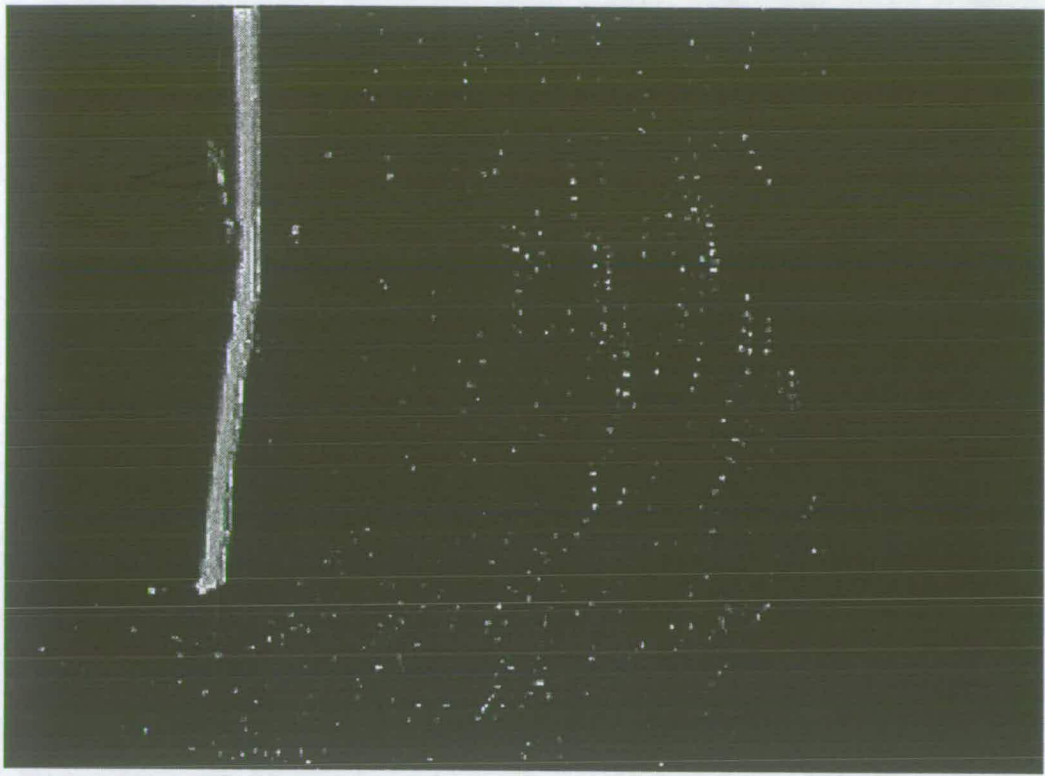
207 MM

ORIGINAL IMAGE



VECTOR MAP  
 IMAGE NO. 35

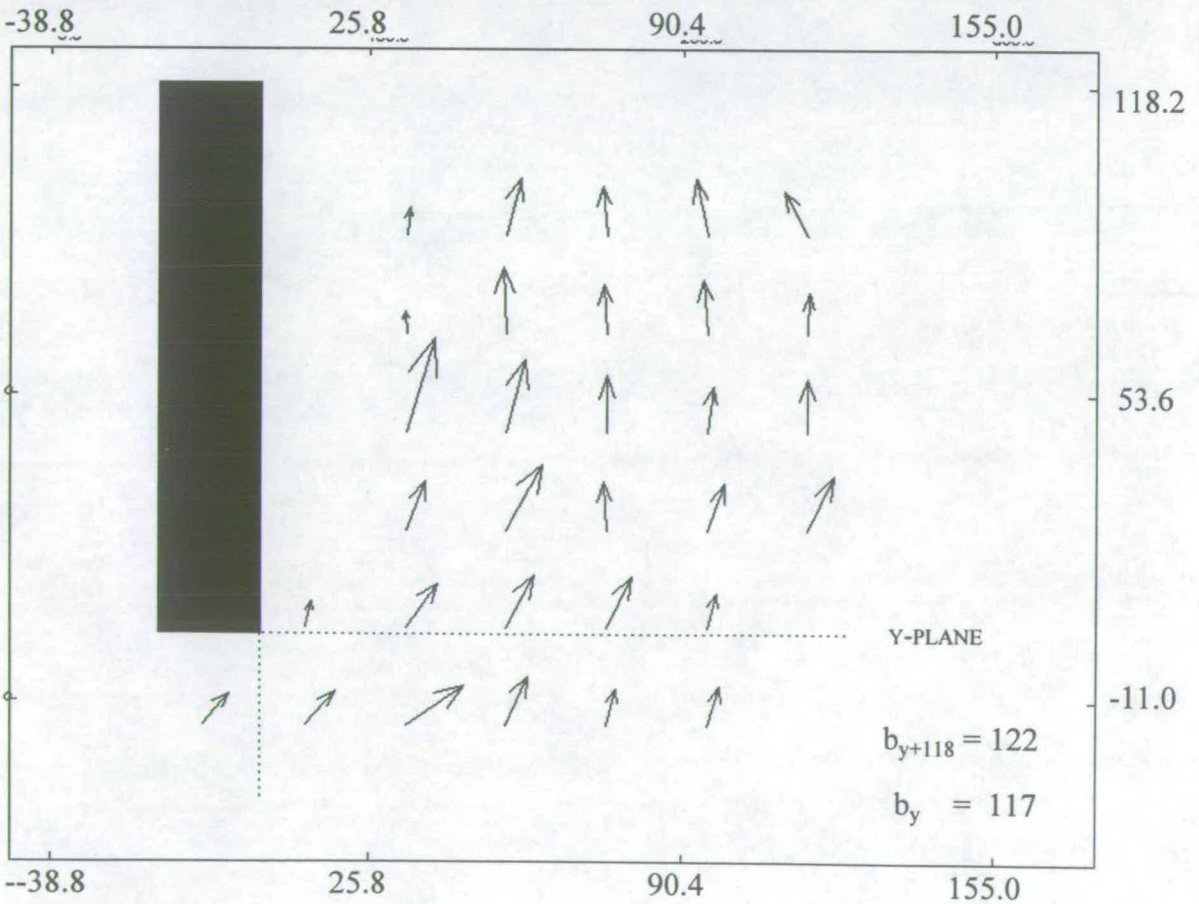
(REF.: D50Y03)



155 MM

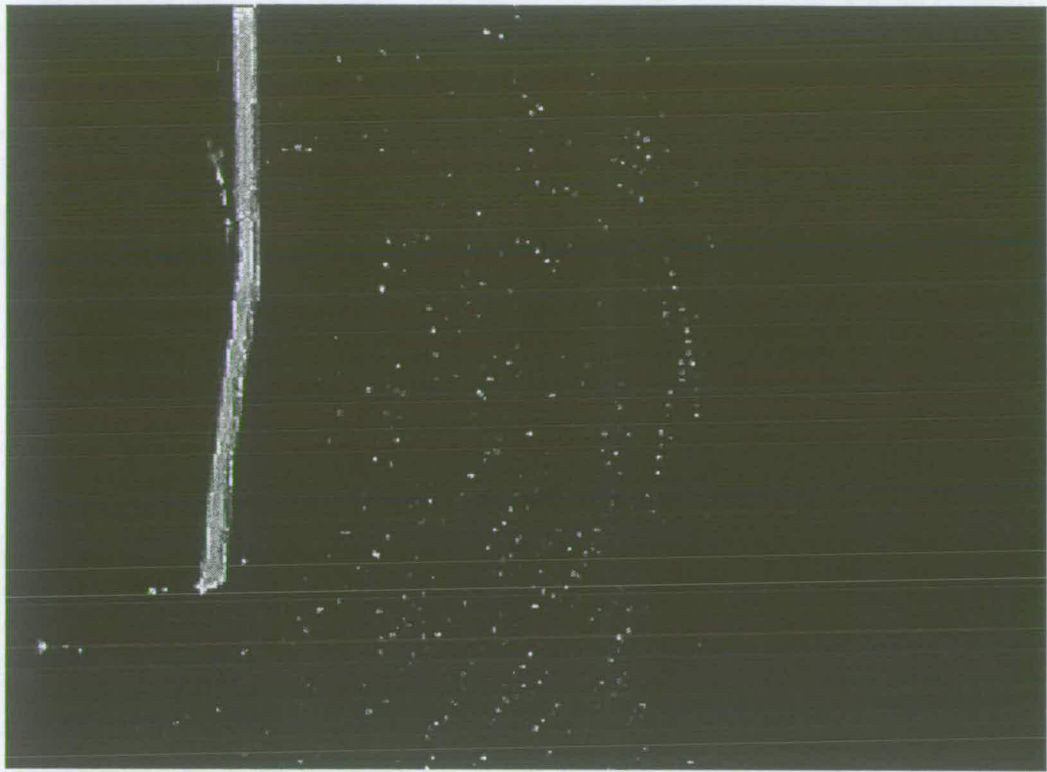
207 MM

**ORIGINAL IMAGE**



**VECTOR MAP  
IMAGE NO. 36**

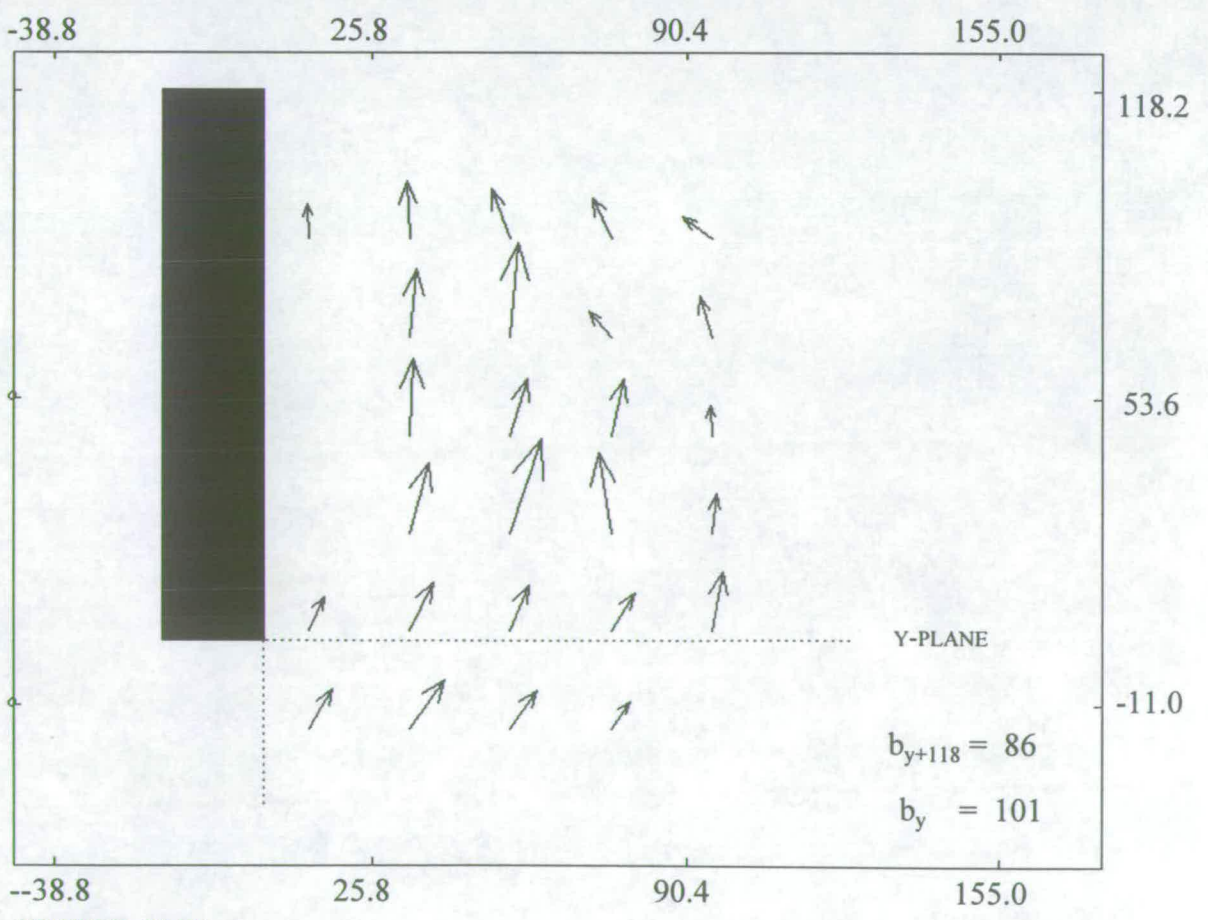
(REF.: D50Y05)



155 MM

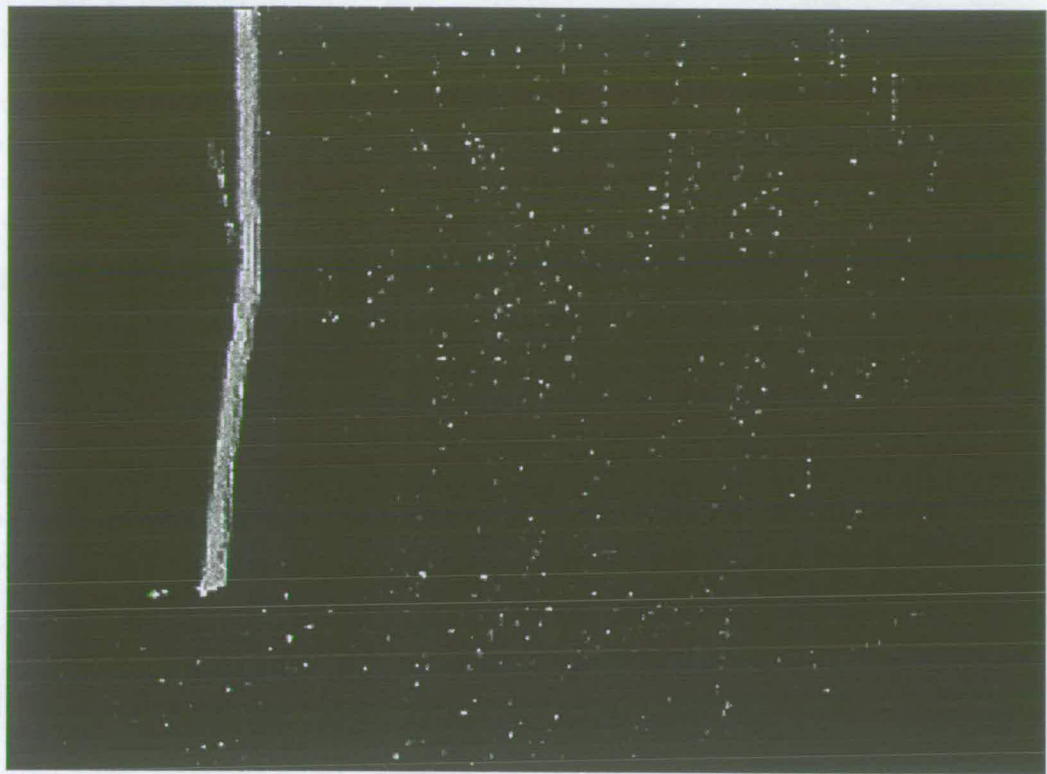
207 MM

ORIGINAL IMAGE



VECTOR MAP  
 IMAGE NO. 38

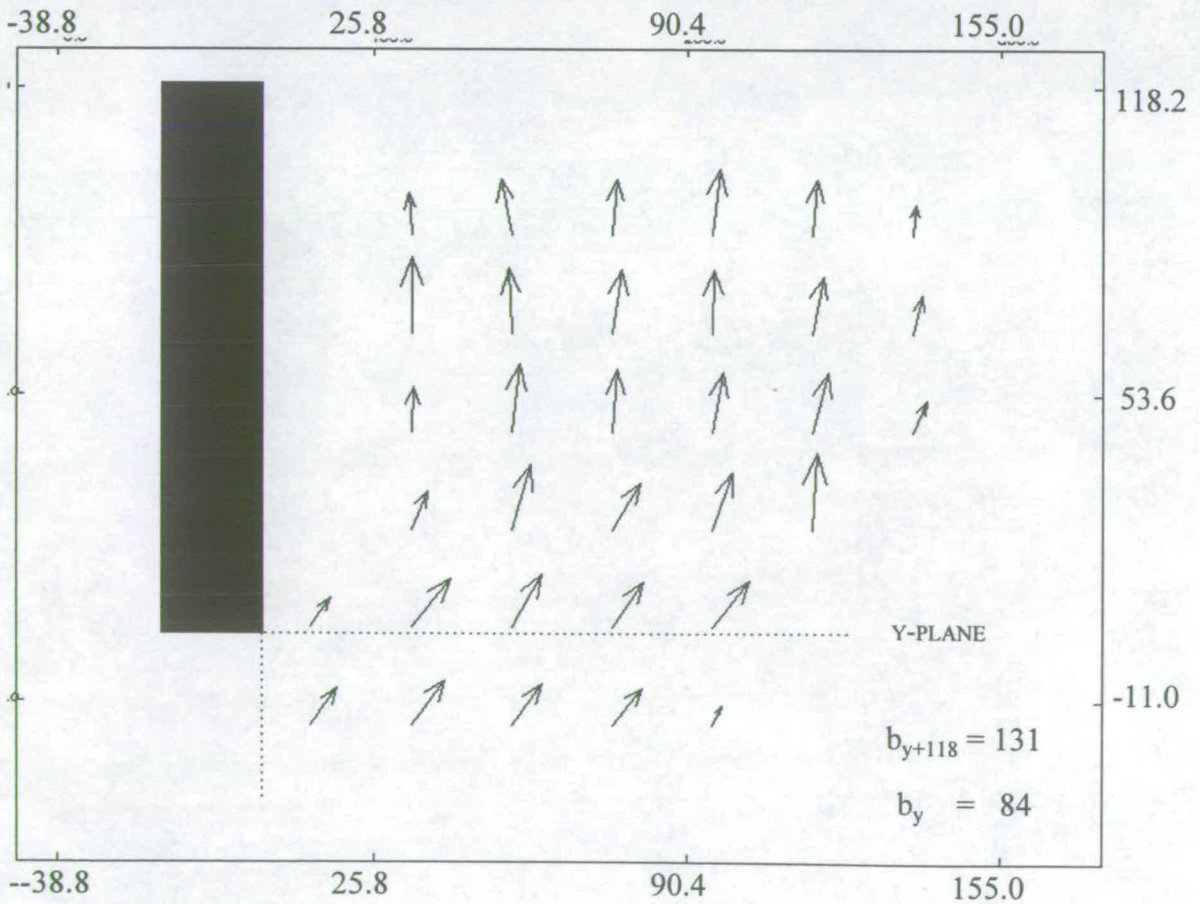
(REF.: D50Y07)



207 MM

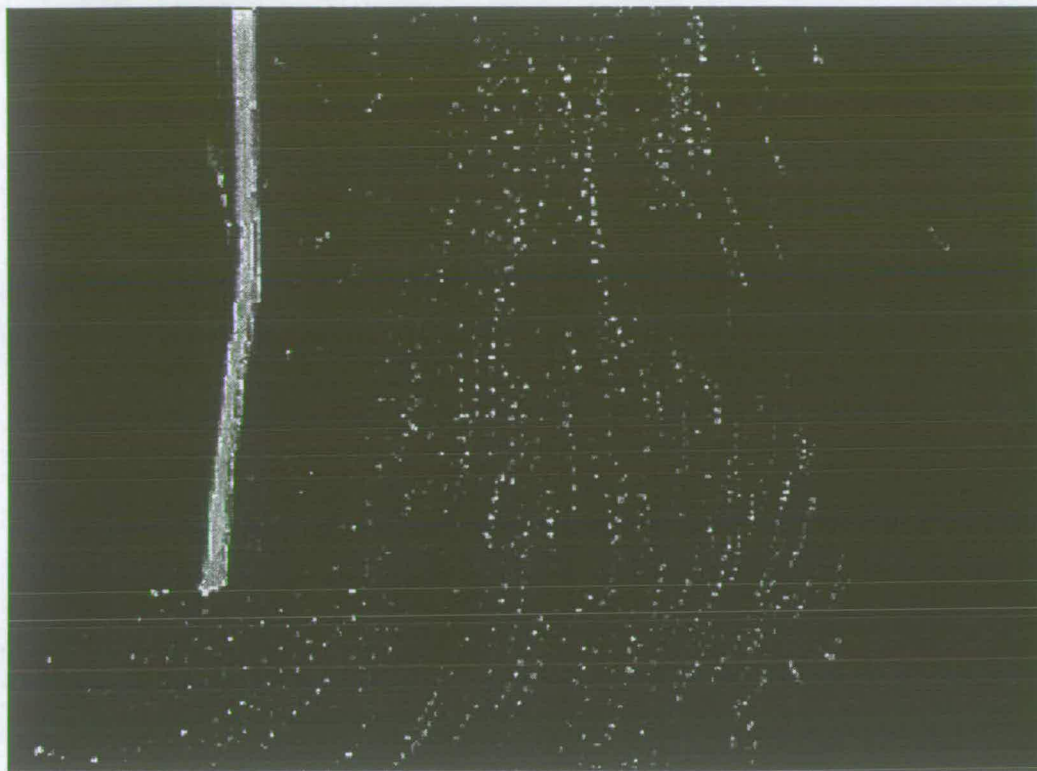
155 MM

ORIGINAL IMAGE



VECTOR MAP  
 IMAGE NO. 37

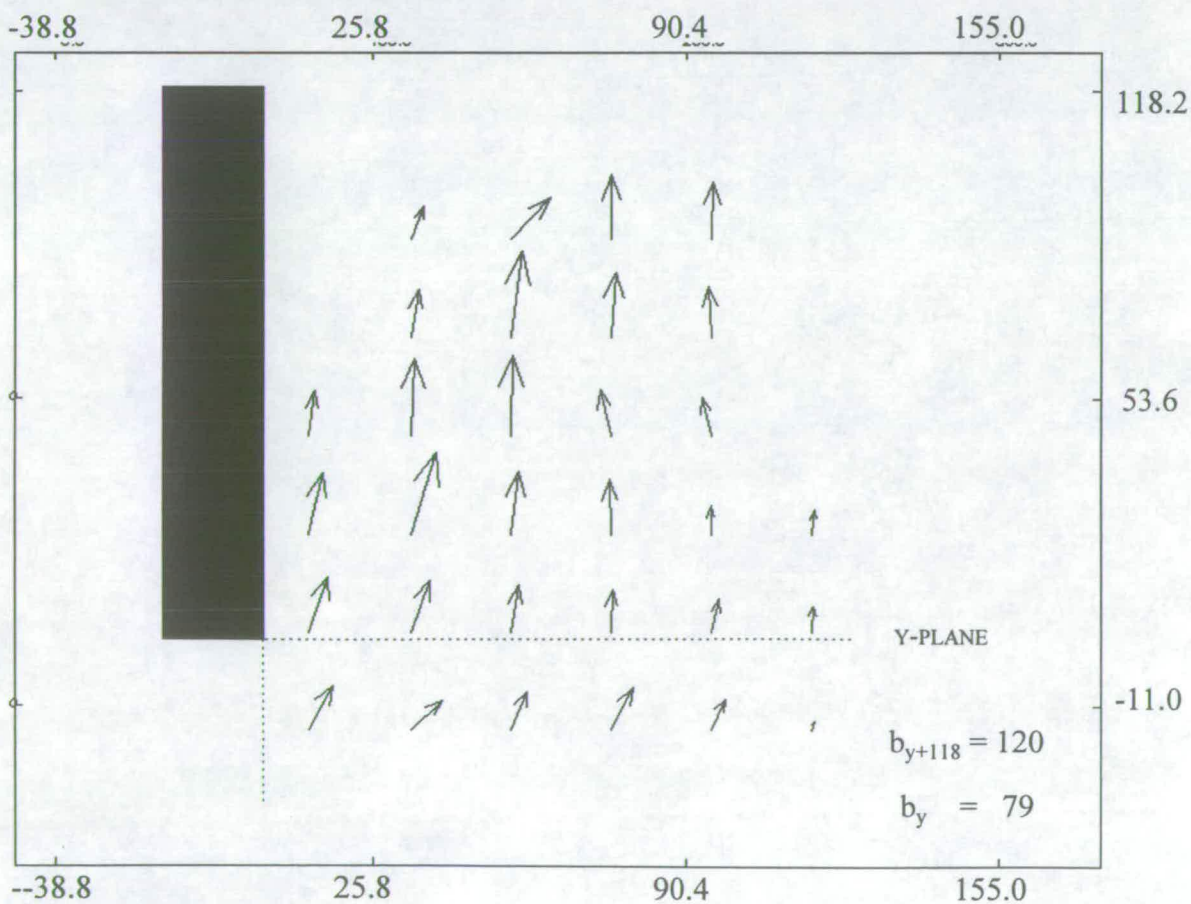
(REF.: D50Y06)



155 MM

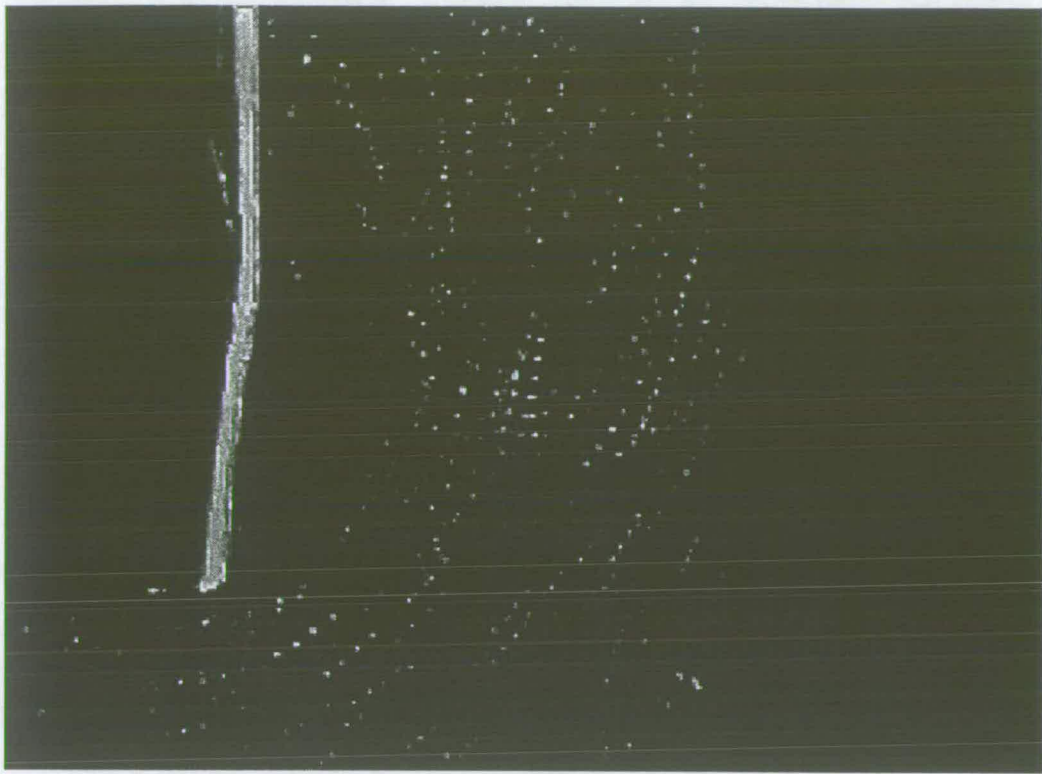
207 MM

ORIGINAL IMAGE



VECTOR MAP  
 IMAGE NO. 39

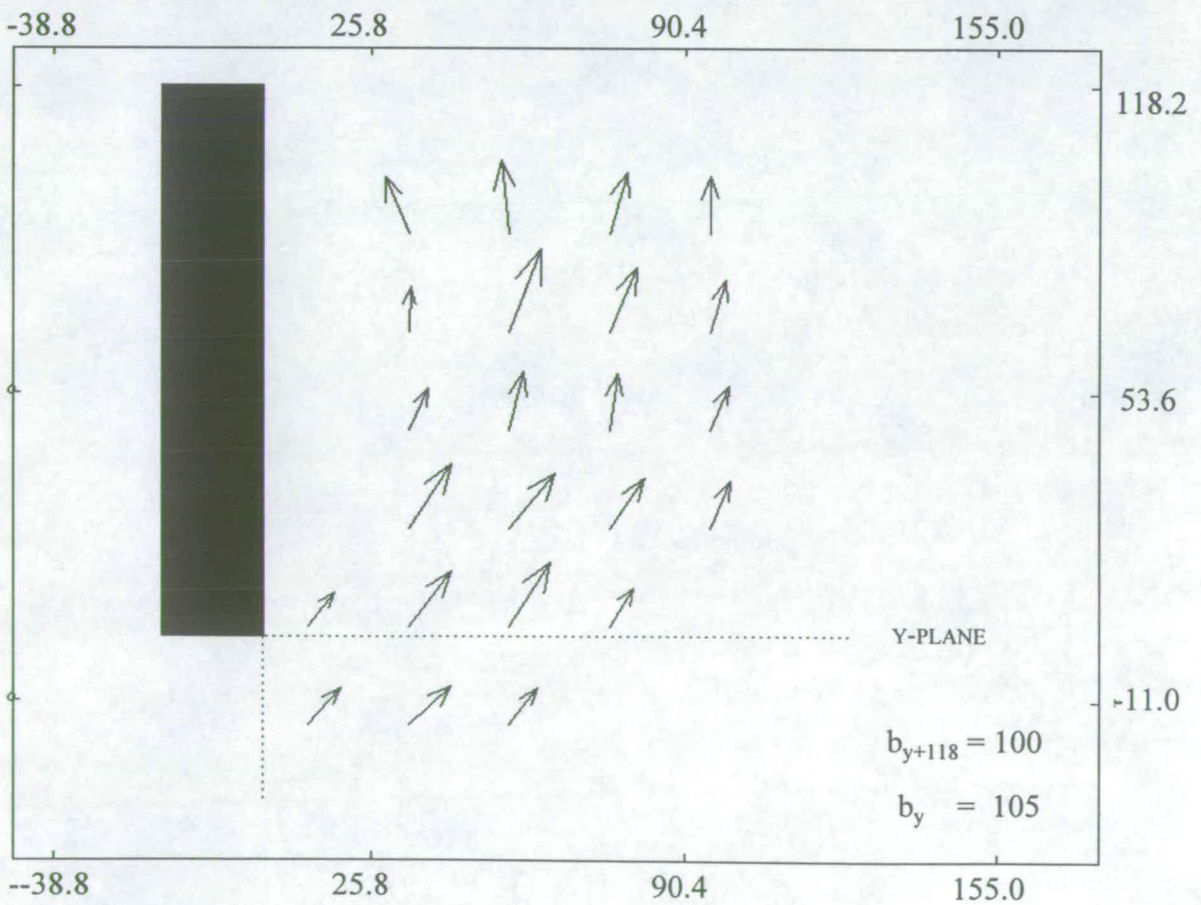
(REF.: D50Y09)



155 MM

207 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 40

(REF.: D50Y13)

image 33 d50y01

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			snr
mm	mm	pix/per	m/s	pix/per	m/s			
10.7	87.0	0.000	0.000	0.000	0.000			1.000
31.4	87.0	-1.762	-0.228	-1.392	0.180			1.126
52.0	87.0	0.084	0.011	-5.989	0.774			1.018
72.7	87.0	2.001	0.258	-7.799	1.008			1.000
93.4	87.0	1.072	0.138	-5.884	0.760			1.000
114.0	87.0	-0.078	-0.010	-4.817	0.622			1.017
10.7	66.3	0.000	0.000	0.000	0.000			1.000
31.4	66.3	-5.214	-0.674	-1.331	0.172			1.236
52.0	66.3	-0.263	-0.034	-5.441	0.703			1.000
72.7	66.3	1.180	0.152	-7.287	0.941			1.000
93.4	66.3	1.059	0.137	-4.253	0.549			1.000
114.0	66.3	-2.024	-0.262	-3.729	0.482			1.000
10.7	45.6	0.000	0.000	0.000	0.000			1.000
31.4	45.6	0.211	0.027	-3.544	0.458			1.007
52.0	45.6	2.050	0.265	-7.506	0.970			1.000
72.7	45.6	0.148	0.019	-6.473	0.836			1.000
93.4	45.6	0.163	0.021	-3.207	0.414			1.000
114.0	45.6	0.062	0.008	-3.807	0.492			1.000
10.7	25.0	0.000	0.000	0.000	0.000			1.000
31.4	25.0	4.101	0.530	-6.885	0.890			1.042
52.0	25.0	2.931	0.379	-5.926	0.766			1.442
72.7	25.0	1.923	0.248	-6.065	0.784			1.000
93.4	25.0	-1.983	-0.256	-4.136	0.534			1.000
31.4	4.3	6.842	0.884	-1.358	0.175			1.059
52.0	4.3	3.262	0.421	-4.900	0.633			1.627
72.7	4.3	1.832	0.237	-4.920	0.636			1.023
93.4	4.3	1.425	0.184	-4.841	0.625			1.000
10.7	-16.4	4.126	0.533	-2.952	0.381			1.022
31.4	-16.4	4.166	0.538	-4.773	0.617			1.279
52.0	-16.4	4.006	0.518	-3.554	0.459			1.690
72.7	-16.4	2.385	0.308	-4.215	0.545			1.450

image 34 d50y02

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
10.7	87.0	0.000	0.000	0.000	0.000	1.000
31.4	87.0	-0.371	-0.048	-3.865	0.499	1.000
52.0	87.0	-1.296	-0.167	-7.317	0.945	1.000
72.7	87.0	-0.931	-0.120	-6.991	0.903	1.000
93.4	87.0	-1.913	-0.247	-5.290	0.683	1.000
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	-0.113	-0.015	-4.184	0.541	1.134
52.0	66.3	-0.064	-0.008	-7.947	1.027	1.000
72.7	66.3	0.028	0.004	-6.625	0.856	1.000
93.4	66.3	-0.388	-0.050	-5.847	0.755	1.229
10.7	45.6	0.000	0.000	0.000	0.000	1.000
31.4	45.6	0.193	0.025	-5.065	0.654	1.000
52.0	45.6	0.815	0.105	-5.916	0.764	1.132
72.7	45.6	1.147	0.148	-5.451	0.704	1.000
93.4	45.6	0.286	0.037	-5.301	0.685	1.000
10.7	25.0	0.000	0.000	0.000	0.000	1.000
31.4	25.0	3.730	0.482	-8.686	1.122	1.193
52.0	25.0	2.329	0.301	-4.892	0.632	1.000
72.7	25.0	1.287	0.166	-4.737	0.612	1.014
93.4	25.0	0.703	0.091	-4.145	0.536	1.000
10.7	4.3	6.548	0.846	-0.080	0.010	1.025
31.4	4.3	4.236	0.547	-4.306	0.556	1.000
52.0	4.3	3.419	0.442	-4.835	0.625	1.271
72.7	4.3	1.408	0.182	-4.215	0.545	1.000
93.4	4.3	0.711	0.092	-3.802	0.491	1.000
-10.0	-16.4	4.910	0.634	-1.726	0.223	1.206
10.7	-16.4	4.779	0.617	-2.150	0.278	1.238
31.4	-16.4	4.079	0.527	-3.366	0.435	1.106
52.0	-16.4	3.406	0.440	-3.652	0.472	1.414
72.7	-16.4	2.400	0.310	-3.555	0.459	1.000

image 35 d50y03

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			
mm	mm	pix/per	m/s	pix/per	m/s			snr
31.4	87.0	-2.575	-0.333	-4.230	0.547			1.184
52.0	87.0	-2.230	-0.288	-3.315	0.428			1.000
72.7	87.0	-2.506	-0.324	-3.466	0.448			1.000
93.4	87.0	-2.585	-0.334	-4.186	0.541			1.195
10.7	66.3	0.000	0.000	0.000	0.000			1.000
31.4	66.3	-1.010	-0.130	-1.954	0.253			1.009
52.0	66.3	-2.915	-0.377	-5.028	0.650			1.030
72.7	66.3	-2.081	-0.269	-5.089	0.657			1.000
93.4	66.3	-3.801	-0.491	-5.132	0.663			1.120
10.7	45.6	0.000	0.000	0.000	0.000			1.000
31.4	45.6	1.137	0.147	-0.687	0.089			1.076
52.0	45.6	-2.823	-0.365	-6.821	0.881			1.013
72.7	45.6	-3.690	-0.477	-5.509	0.712			1.153
93.4	45.6	-0.432	-0.056	-3.791	0.490			1.000
10.7	25.0	0.000	0.000	0.000	0.000			1.000
31.4	25.0	3.770	0.487	-1.496	0.193			1.111
52.0	25.0	0.355	0.046	-4.666	0.603			1.007
72.7	25.0	-0.457	-0.059	-5.011	0.647			1.000
93.4	25.0	-1.266	-0.164	-5.015	0.648			1.102
10.7	4.3	1.079	0.139	-1.939	0.251			1.030
31.4	4.3	1.114	0.144	-3.960	0.512			1.213
52.0	4.3	1.187	0.153	-4.709	0.608			1.000
72.7	4.3	-0.016	-0.002	-4.534	0.586			1.000
93.4	4.3	-0.890	-0.115	-3.767	0.487			1.000
-10.0	-16.4	0.457	0.059	-3.700	0.478			1.178
10.7	-16.4	0.280	0.036	-4.362	0.564			1.016
31.4	-16.4	-0.367	-0.047	-6.633	0.857			1.115
52.0	-16.4	-1.0863	-0.17123	-4.59516	0.724307			1.000
72.7	-16.4	0.912	0.118	-4.418	0.571			1.000

image 36 d50y05

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
10.7	87.0	0.000	0.000	0.000	0.000	1.000
31.4	87.0	0.344	0.044	-2.946	0.381	1.047
52.0	87.0	1.509	0.195	-6.058	0.783	1.000
72.7	87.0	-0.484	-0.062	-5.205	0.673	1.000
93.4	87.0	-1.247	-0.161	-6.047	0.781	1.000
114.0	87.0	-2.341	-0.302	-4.787	0.619	1.000
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	-0.037	-0.005	-2.279	0.294	1.000
52.0	66.3	-0.320	-0.041	-7.037	0.909	1.000
72.7	66.3	-0.267	-0.034	-5.286	0.683	1.000
93.4	66.3	-0.491	-0.063	-5.765	0.745	1.000
114.0	66.3	0.260	0.034	-4.334	0.560	1.000
10.7	45.6	0.000	0.000	0.000	0.000	1.000
31.4	45.6	3.026	0.391	-10.018	1.294	1.094
52.0	45.6	2.077	0.268	-7.829	1.011	1.000
72.7	45.6	0.143	0.018	-6.046	0.781	1.000
93.4	45.6	0.680	0.088	-4.974	0.643	1.000
114.0	45.6	0.138	0.018	-5.690	0.735	1.000
10.7	25.0	0.000	0.000	0.000	0.000	1.000
31.4	25.0	2.043	0.264	-5.316	0.687	1.012
52.0	25.0	3.981	0.514	-7.154	0.924	1.316
72.7	25.0	-0.287	-0.037	-5.194	0.671	1.000
93.4	25.0	1.953	0.252	-5.047	0.652	1.000
114.0	25.0	2.958	0.382	-5.899	0.762	1.356
31.4	4.3	3.354	0.433	-4.755	0.614	1.276
52.0	4.3	3.010	0.389	-5.733	0.741	1.000
72.7	4.3	2.724	0.352	-5.649	0.730	1.230
93.4	4.3	1.147	0.148	-3.722	0.481	1.000
-10.0	-16.4	2.718	0.351	-3.325	0.430	1.005
10.7	-16.4	3.252	0.420	-3.613	0.467	1.231
31.4	-16.4	6.198	0.801	-4.245	0.548	1.102
52.0	-16.4	2.374	0.307	-5.282	0.682	1.000
72.7	-16.4	1.067	0.138	-3.933	0.508	1.000
93.4	-16.4	1.474	0.190	-4.255	0.550	1.000

image 37 d50y06

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
10.7	87.0	0.000	0.000	0.000	0.000	1.000
31.4	87.0	-0.280	-0.036	-4.401	0.569	1.000
52.0	87.0	-1.102	-0.142	-5.859	0.757	1.000
72.7	87.0	0.545	0.070	-5.986	0.773	1.000
93.4	87.0	0.885	0.114	-7.041	0.910	1.000
114.0	87.0	0.562	0.073	-5.877	0.759	1.000
134.7	87.0	0.438	0.057	-3.268	0.422	1.000
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	0.108	0.014	-8.162	1.055	1.000
52.0	66.3	-0.205	-0.026	-6.933	0.896	1.000
72.7	66.3	1.138	0.147	-6.827	0.882	1.000
93.4	66.3	0.283	0.037	-6.766	0.874	1.000
114.0	66.3	1.233	0.159	-6.147	0.794	1.000
134.7	66.3	1.050	0.136	-4.147	0.536	1.000
10.7	45.6	0.000	0.000	0.000	0.000	1.000
31.4	45.6	0.244	0.032	-4.781	0.618	1.142
52.0	45.6	0.927	0.120	-7.329	0.947	1.000
72.7	45.6	0.664	0.086	-6.688	0.864	1.000
93.4	45.6	1.185	0.153	-6.392	0.826	1.007
114.0	45.6	1.760	0.227	-6.393	0.826	1.000
134.7	45.6	1.557	0.201	-3.390	0.438	1.000
10.7	25.0	0.000	0.000	0.000	0.000	1.000
31.4	25.0	1.735	0.224	-4.013	0.518	1.027
52.0	25.0	2.088	0.270	-7.154	0.924	1.000
72.7	25.0	3.078	0.398	-5.100	0.659	1.196
93.4	25.0	2.286	0.295	-6.262	0.809	1.104
114.0	25.0	0.658	0.085	-8.439	1.090	1.000
10.7	4.3	2.183	0.282	-3.000	0.388	1.015
31.4	4.3	4.229	0.546	-5.188	0.670	1.044
52.0	4.3	3.174	0.410	-5.788	0.748	1.382
72.7	4.3	3.372	0.436	-4.896	0.633	1.109
93.4	4.3	4.059	0.524	-5.004	0.647	1.127
10.7	-16.4	2.990	0.386	-3.928	0.508	1.000
31.4	-16.4	3.624	0.468	-4.778	0.617	1.163
52.0	-16.4	3.245	0.419	-4.360	0.563	1.080
72.7	-16.4	3.231	0.417	-3.927	0.507	1.174
93.4	-16.4	1.104	0.143	-2.094	0.271	1.000

image 38 d50y07

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
10.7	87.0	-0.035	-0.004	-3.659	0.473	1.000
31.4	87.0	-0.200	-0.026	-6.013	0.777	1.242
52.0	87.0	-1.887	-0.244	-5.321	0.688	1.000
72.7	87.0	-1.871	-0.242	-4.275	0.552	1.026
93.4	87.0	-3.009	-0.389	-2.247	0.290	1.408
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	0.827	0.107	-7.267	0.939	1.000
52.0	66.3	0.918	0.119	-10.025	1.295	1.000
72.7	66.3	-2.192	-0.283	-2.706	0.350	1.000
93.4	66.3	-1.281	-0.166	-4.366	0.564	1.000
10.7	45.6	0.000	0.000	0.000	0.000	1.000
31.4	45.6	0.424	0.055	-8.318	1.075	1.000
52.0	45.6	1.838	0.237	-6.067	0.784	1.000
72.7	45.6	1.417	0.183	-6.132	0.792	1.000
93.4	45.6	-0.154	-0.020	-3.245	0.419	1.000
10.7	25.0	0.000	0.000	0.000	0.000	1.000
31.4	25.0	2.042	0.264	-7.596	0.981	1.000
52.0	25.0	3.354	0.433	-10.188	1.316	1.036
72.7	25.0	-1.301	-0.168	-8.776	1.134	1.000
93.4	25.0	0.515	0.067	-4.266	0.551	1.000
10.7	4.3	1.693	0.219	-3.603	0.466	1.074
31.4	4.3	2.558	0.330	-5.266	0.680	1.086
52.0	4.3	2.073	0.268	-4.968	0.642	1.000
72.7	4.3	2.508	0.324	-4.144	0.535	1.000
93.4	4.3	1.189	0.154	-6.413	0.829	1.000
10.7	-16.4	2.577	0.333	-4.295	0.555	1.000
31.4	-16.4	3.766	0.487	-5.171	0.668	1.052
52.0	-16.4	2.960	0.382	-4.099	0.530	1.350
72.7	-16.4	2.038	0.263	-2.880	0.372	1.000

image 39 d50y09

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
10.7	87.0	0.000	0.000	0.000	0.000	1.000
31.4	87.0	1.463	0.189	-3.459	0.447	1.072
52.0	87.0	4.184	0.541	-4.336	0.560	1.006
72.7	87.0	0.120	0.016	-6.908	0.893	1.000
93.4	87.0	0.210	0.027	-6.112	0.790	1.000
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	0.920	0.119	-5.024	0.649	1.103
52.0	66.3	1.290	0.167	-9.246	1.195	1.000
72.7	66.3	0.559	0.072	-6.903	0.892	1.000
93.4	66.3	-0.246	-0.032	-5.492	0.710	1.000
31.4	45.6	0.446	0.058	-8.322	1.075	1.000
52.0	45.6	0.180	0.023	-8.617	1.113	1.000
72.7	45.6	-1.149	-0.148	-4.927	0.637	1.000
93.4	45.6	-0.854	-0.110	-4.041	0.522	1.000
31.4	25.0	2.832	0.366	-8.773	1.133	1.165
52.0	25.0	0.855	0.110	-6.699	0.866	1.000
72.7	25.0	-0.107	-0.014	-5.925	0.766	1.000
93.4	25.0	0.023	0.003	-3.036	0.392	1.000
114.0	25.0	0.385	0.050	-2.621	0.339	1.000
31.4	4.3	2.149	0.278	-5.589	0.722	1.280
52.0	4.3	0.958	0.124	-5.035	0.651	1.000
72.7	4.3	0.196	0.025	-4.602	0.595	1.000
93.4	4.3	0.897	0.116	-3.524	0.455	1.000
114.0	4.3	0.282	0.036	-2.811	0.363	1.000
10.7	-16.4	2.558	0.331	-4.795	0.619	1.000
31.4	-16.4	3.374	0.436	-3.139	0.406	1.285
52.0	-16.4	1.798	0.232	-4.068	0.526	1.000
72.7	-16.4	2.426	0.313	-4.653	0.601	1.000
93.4	-16.4	1.586	0.205	-3.302	0.427	1.000
114.0	-16.4	0.425	0.055	-0.969	0.125	1.000

image 40 d50y10

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
10.7	87.0	0.000	0.000	0.000	0.000	1.000
31.4	87.0	-2.464	-0.318	-6.131	0.792	1.000
52.0	87.0	-0.697	-0.090	-7.943	1.026	1.000
72.7	87.0	1.888	0.244	-6.602	0.853	1.000
93.4	87.0	0.054	0.007	-6.226	0.804	1.000
10.7	66.3	0.000	0.000	0.000	0.000	1.000
31.4	66.3	0.172	0.022	-4.763	0.615	1.000
52.0	66.3	3.435	0.444	-8.849	1.143	1.167
72.7	66.3	2.886	0.373	-6.868	0.887	1.085
93.4	66.3	1.784	0.230	-5.587	0.722	1.000
10.7	45.6	0.000	0.000	0.000	0.000	1.000
31.4	45.6	2.001	0.259	-4.365	0.564	1.000
52.0	45.6	1.624	0.210	-6.205	0.802	1.000
72.7	45.6	0.931	0.120	-6.073	0.785	1.000
93.4	45.6	2.000	0.258	-4.723	0.610	1.000
10.7	25.0	0.000	0.000	0.000	0.000	1.000
31.4	25.0	4.626	0.598	-6.840	0.884	1.097
52.0	25.0	4.928	0.637	-5.880	0.760	1.002
72.7	25.0	3.816	0.493	-5.420	0.700	1.380
93.4	25.0	2.291	0.296	-5.147	0.665	1.000
10.7	4.3	2.860	0.370	-3.553	0.459	1.003
31.4	4.3	4.568	0.590	-5.910	0.764	1.095
52.0	4.3	4.394	0.568	-6.885	0.890	1.270
72.7	4.3	2.649	0.342	-4.163	0.538	1.493
10.7	-16.4	3.656	0.472	-3.979	0.514	1.023
31.4	-16.4	4.619	0.597	-4.105	0.530	1.421
52.0	-16.4	3.139	0.406	-3.933	0.508	1.550

**Velocity Data for Images 33-40. Vertical Velocities**  
**50 Downstand 660 long compartment**

velocities; m/s

x	y	d50y01	d50y02	d50y03	d50y05	d50y06	d50y07	d50y09	d50y10	
mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	87.0	0.000	0.000	0.000	0.000	0.000	0.473	0.000	0.000	0.059
31.4	87.0	0.180	0.499	0.547	0.381	0.569	0.777	0.447	0.792	0.524
52.0	87.0	0.774	0.945	0.428	0.783	0.757	0.688	0.560	1.026	0.745
72.7	87.0	1.008	0.903	0.448	0.673	0.773	0.552	0.893	0.853	0.763
93.4	87.0	0.760	0.683	0.541	0.781	0.910	0.290	0.790	0.804	0.695
114.0	87.0	0.622	0.000	0.000	0.619	0.759	0.000	0.000	0.000	0.250
134.7	87.0	0.000	0.000	0.000	0.000	0.422	0.000	0.000	0.000	0.053

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	66.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	66.3	0.172	0.541	0.253	0.294	1.055	0.939	0.649	0.615	0.565
52.0	66.3	0.703	1.027	0.650	0.909	0.896	1.295	1.195	1.143	0.977
72.7	66.3	0.941	0.856	0.657	0.683	0.882	0.350	0.892	0.887	0.769
93.4	66.3	0.549	0.755	0.663	0.745	0.874	0.564	0.710	0.722	0.698
114.0	66.3	0.482	0.000	0.000	0.560	0.794	0.000	0.000	0.000	0.230
134.7	66.3	0.000	0.000	0.000	0.000	0.536	0.000	0.000	0.000	0.067

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	45.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	45.6	0.458	0.654	0.089	1.294	0.618	1.075	1.075	0.564	0.728
52.0	45.6	0.970	0.764	0.881	1.011	0.947	0.784	1.113	0.802	0.909
72.7	45.6	0.836	0.704	0.712	0.781	0.864	0.792	0.637	0.785	0.764
93.4	45.6	0.414	0.685	0.490	0.643	0.826	0.419	0.522	0.610	0.576
114.0	45.6	0.492	0.000	0.000	0.735	0.826	0.000	0.000	0.000	0.257
134.7	45.6	0.000	0.000	0.000	0.000	0.438	0.000	0.000	0.000	0.055

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	25.0	0.890	1.122	0.193	0.687	0.518	0.981	1.133	0.884	0.801
52.0	25.0	0.766	0.632	0.603	0.924	0.924	1.316	0.866	0.760	0.849
72.7	25.0	0.784	0.612	0.647	0.671	0.659	1.134	0.766	0.700	0.747
93.4	25.0	0.534	0.536	0.648	0.652	0.809	0.551	0.392	0.665	0.598
114.0	25.0	0.000	0.000	0.000	0.762	1.090	0.000	0.339	0.000	0.274

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	4.3	0.000	0.010	0.251	0.000	0.388	0.466	0.000	0.459	0.197
31.4	4.3	0.175	0.556	0.512	0.614	0.670	0.680	0.722	0.764	0.587
52.0	4.3	0.633	0.625	0.608	0.741	0.748	0.642	0.651	0.890	0.692
72.7	4.3	0.636	0.545	0.586	0.730	0.633	0.535	0.595	0.538	0.600
93.4	4.3	0.625	0.491	0.487	0.481	0.647	0.829	0.455	0.000	0.502
114.0	4.3	0.000	0.000	0.000	0.000	0.000	0.000	0.363	0.000	0.045

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
-10.0	-16.4	0.000	0.223	0.478	0.430	0.000	0.000	0.000	0.000	0.141
10.7	-16.4	0.381	0.278	0.564	0.467	0.508	0.555	0.619	0.514	0.486
31.4	-16.4	0.617	0.435	0.857	0.548	0.617	0.668	0.406	0.530	0.585
52.0	-16.4	0.459	0.472	0.724	0.682	0.563	0.530	0.526	0.508	0.558
72.7	-16.4	0.545	0.459	0.571	0.508	0.507	0.372	0.601	0.000	0.445
93.4	-16.4	0.000	0.000	0.000	0.550	0.271	0.000	0.427	0.000	0.156
114.0	-16.4	0.000	0.000	0.000	0.000	0.000	0.000	0.125	0.000	0.016

**Velocity Data for Images 33-40. Horizontal Velocities**  
**50 Downstand 660 long compartment**

velocities; m/s

x	y	d50y01	d50y02	d50y03	d50y05	d50y06	d50y07	d50y09	d50y10	mean
mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	
10.7	87.0	0.000	0.000	0.000	0.000	0.000	-0.004	0.000	0.000	-0.001
31.4	87.0	-0.228	-0.048	-0.333	0.044	-0.036	-0.026	0.189	-0.318	-0.094
52.0	87.0	0.011	-0.167	-0.288	0.195	-0.142	-0.244	0.541	-0.090	-0.023
72.7	87.0	0.258	-0.120	-0.324	-0.062	0.070	-0.242	0.016	0.244	-0.020
93.4	87.0	0.138	-0.247	-0.334	-0.161	0.114	-0.389	0.027	0.007	-0.106
114.0	87.0	-0.010	0.000	0.000	-0.302	0.073	0.000	0.000	0.000	-0.030
134.7	87.0	0.000	0.000	0.000	0.000	0.057	0.000	0.000	0.000	0.007

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	66.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	66.3	-0.674	-0.015	-0.130	-0.005	0.014	0.107	0.119	0.022	-0.070
52.0	66.3	-0.034	-0.008	-0.377	-0.041	-0.026	0.119	0.167	0.444	0.030
72.7	66.3	0.152	0.004	-0.269	-0.034	0.147	-0.283	0.072	0.373	0.020
93.4	66.3	0.137	-0.050	-0.491	-0.063	0.037	-0.166	-0.032	0.230	-0.050
114.0	66.3	-0.262	0.000	0.000	0.034	0.159	0.000	0.000	0.000	-0.009
134.7	66.3	0.000	0.000	0.000	0.000	0.136	0.000	0.000	0.000	0.017

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	45.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	45.6	0.027	0.025	0.147	0.391	0.032	0.055	0.058	0.259	0.124
52.0	45.6	0.265	0.105	-0.365	0.268	0.120	0.237	0.023	0.210	0.108
72.7	45.6	0.019	0.148	-0.477	0.018	0.086	0.183	-0.148	0.120	-0.006
93.4	45.6	0.021	0.037	-0.056	0.088	0.153	-0.020	-0.110	0.258	0.046
114.0	45.6	0.008	0.000	0.000	0.018	0.227	0.000	0.000	0.000	0.032
134.7	45.6	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.000	0.025

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	25.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31.4	25.0	0.530	0.482	0.487	0.264	0.224	0.264	0.366	0.598	0.402
52.0	25.0	0.379	0.301	0.046	0.514	0.270	0.433	0.110	0.637	0.336
72.7	25.0	0.248	0.166	-0.059	-0.037	0.398	-0.168	-0.014	0.493	0.128
93.4	25.0	-0.256	0.091	-0.164	0.252	0.295	0.067	0.003	0.296	0.073
114.0	25.0	0.000	0.000	0.000	0.382	0.085	0.000	0.050	0.000	0.065

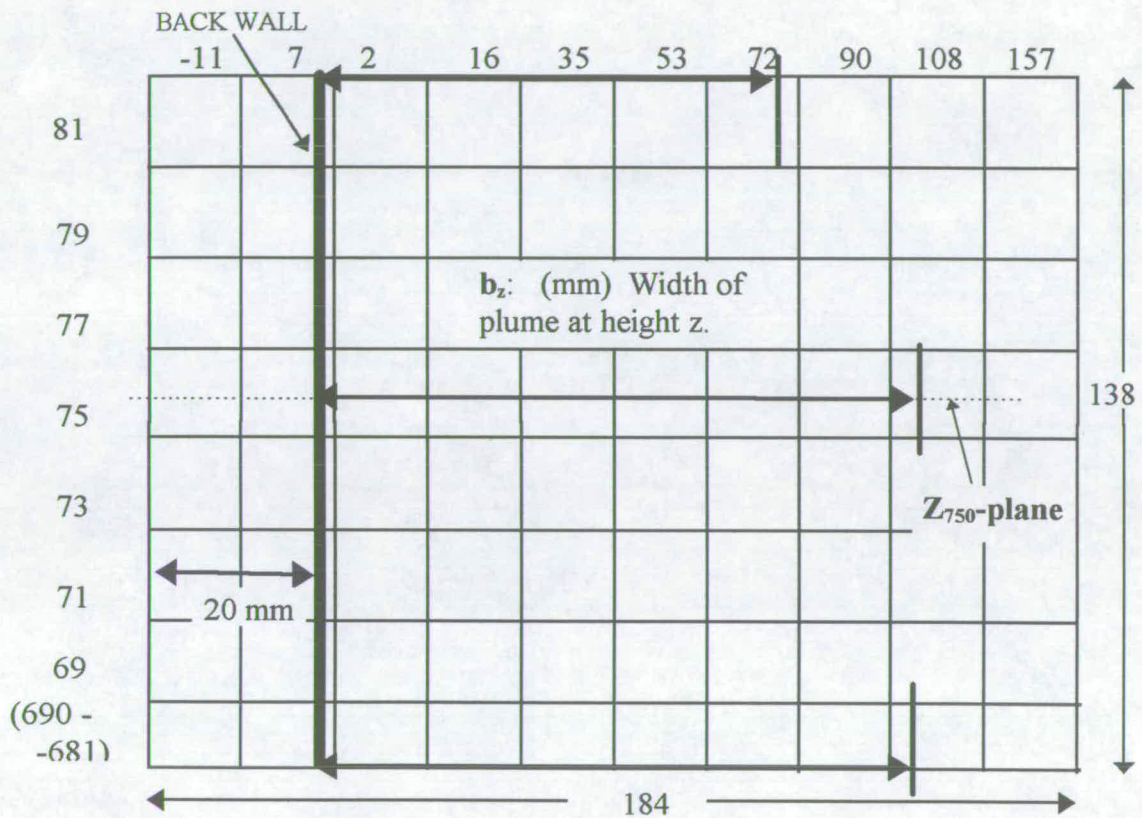
mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
10.7	4.3	0.000	0.846	0.139	0.000	0.282	0.219	0.000	0.370	0.232
31.4	4.3	0.884	0.547	0.144	0.433	0.546	0.330	0.278	0.590	0.469
52.0	4.3	0.421	0.442	0.153	0.389	0.410	0.268	0.124	0.568	0.347
72.7	4.3	0.237	0.182	-0.002	0.352	0.436	0.324	0.025	0.342	0.237
93.4	4.3	0.184	0.092	-0.115	0.148	0.524	0.154	0.116	0.000	0.138
114.0	4.3	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.000	0.005

mm	mm	im33	im34	im35	im36	im37	im38	im39	im40	mean
-10.0	-16.4	0.000	0.634	0.059	0.351	0.000	0.000	0.000	0.000	0.131
10.7	-16.4	0.533	0.617	0.036	0.420	0.386	0.333	0.331	0.472	0.391
31.4	-16.4	0.538	0.527	-0.047	0.801	0.468	0.487	0.436	0.597	0.476
52.0	-16.4	0.518	0.440	-0.171	0.307	0.419	0.382	0.232	0.406	0.317
72.7	-16.4	0.308	0.310	0.118	0.138	0.417	0.263	0.313	0.000	0.234
93.4	-16.4	0.000	0.000	0.000	0.190	0.143	0.000	0.205	0.000	0.067
114.0	-16.4	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.000	0.007

# IMAGES 41 TO 48:

## FLOW FROM FIRE COMPARTMENT (Z-PLANE)

660 mm long compartment; 50 mm deep downstand;  
no balcony; 4.61 kw heat source

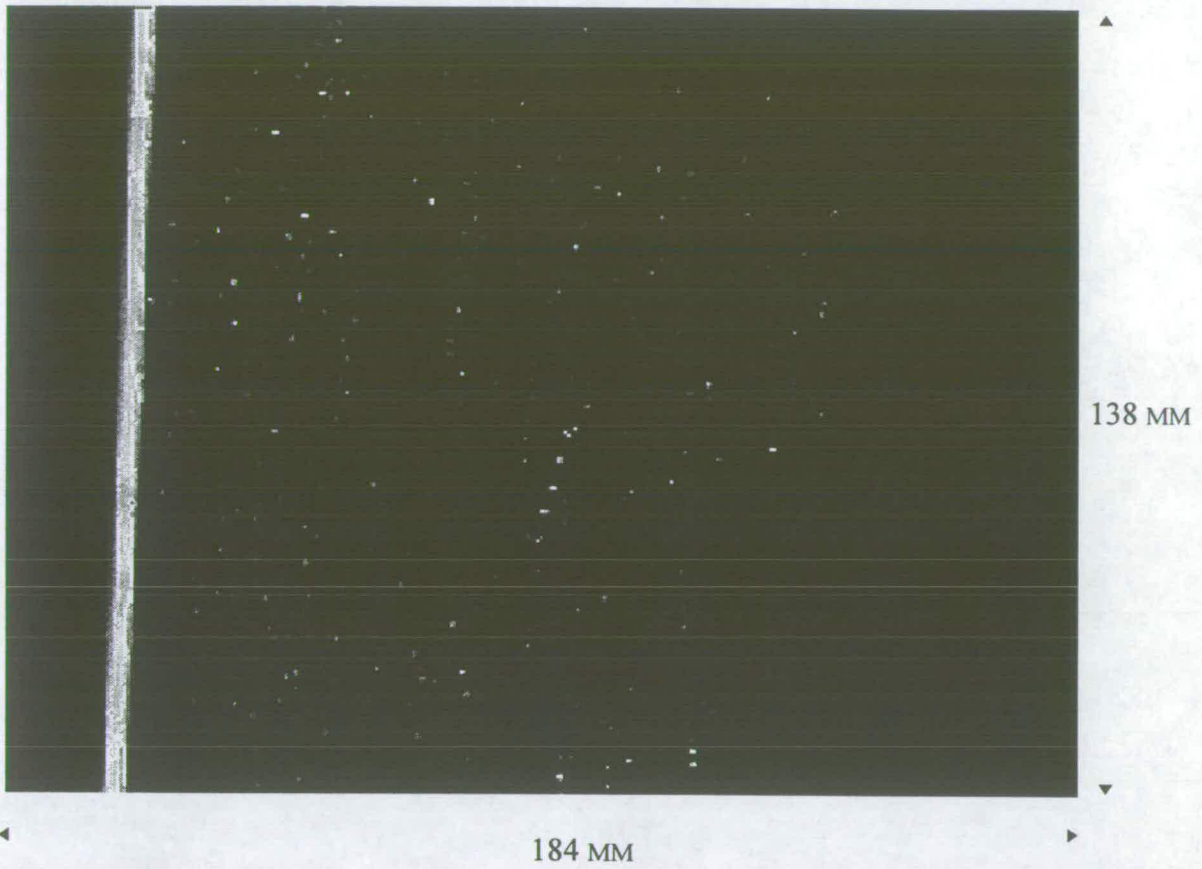


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 41 - 48

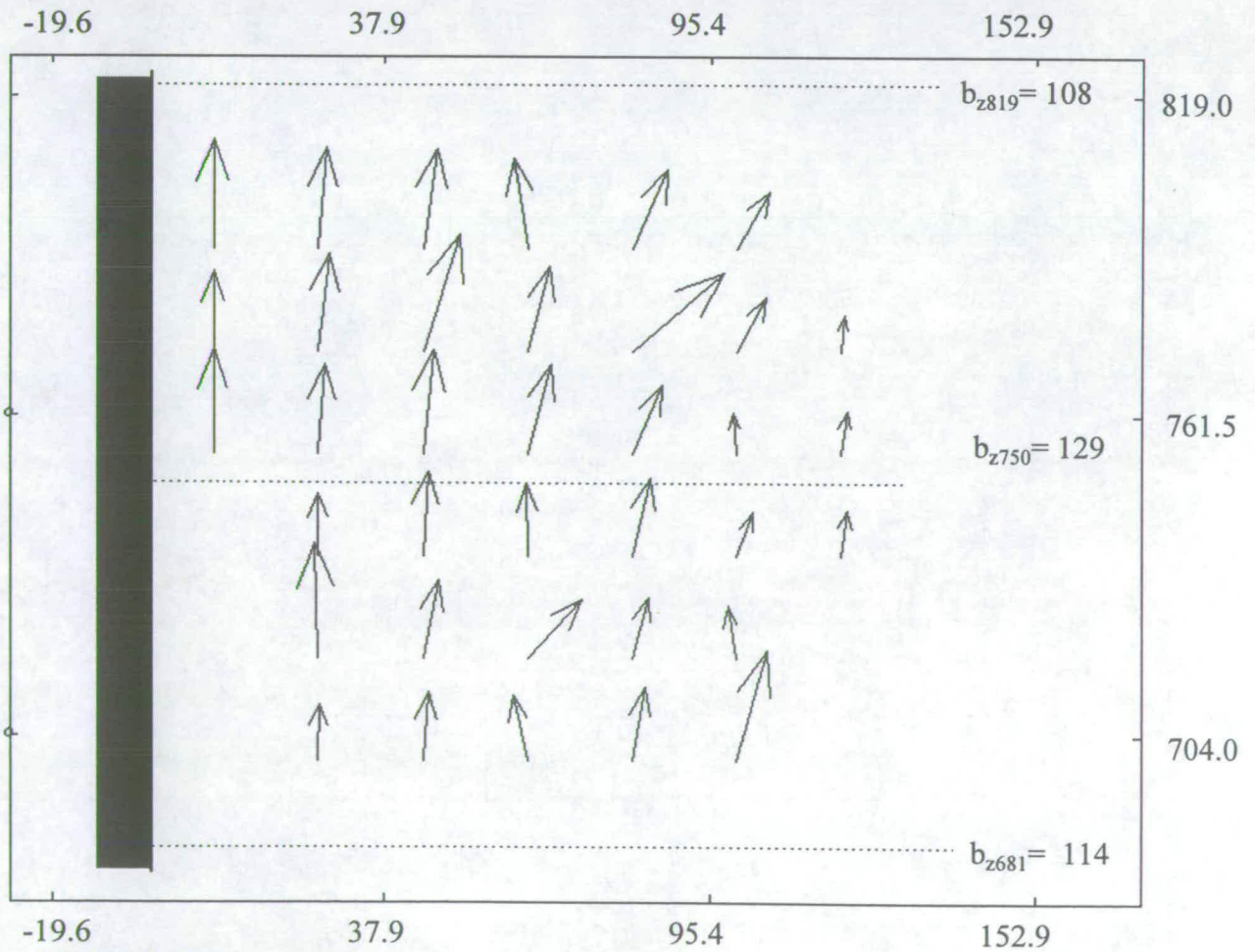
Interrogation areas 18.4 mm x 18.4 mm.

SCALE: 1 PIXEL = 0.575 MM

File references: d50h0 to d50h20

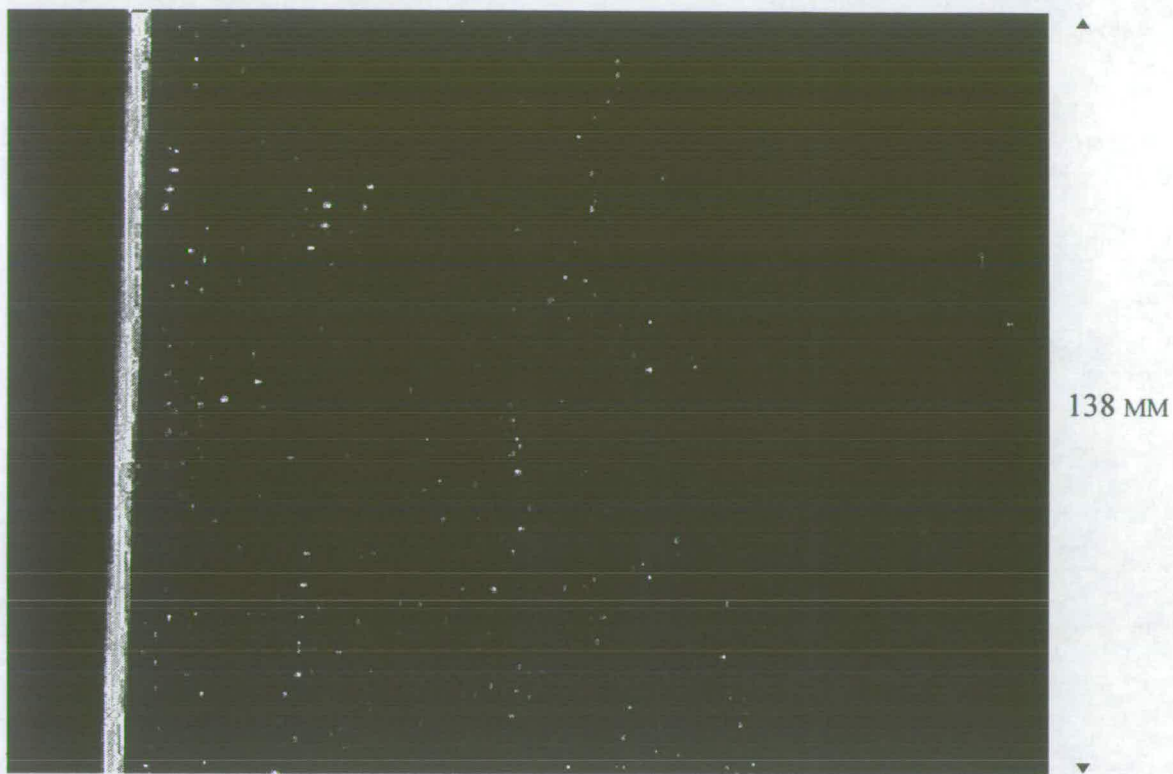


ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 41

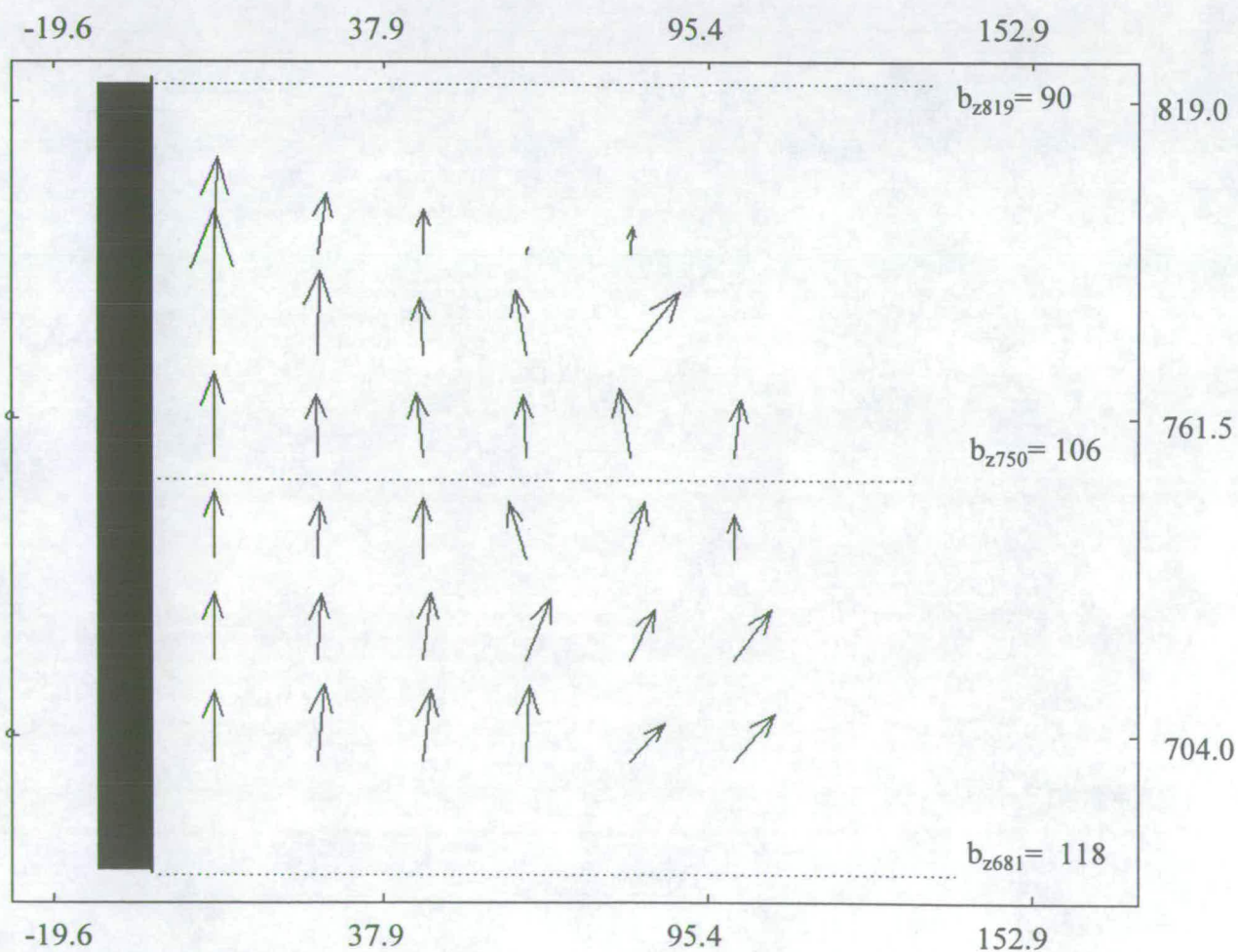
(REF.: D50H01)



ORIGINAL IMAGE

184 MM

138 MM



-19.6

37.9

95.4

152.9

$b_{z819} = 90$

819.0

$b_{z750} = 106$

761.5

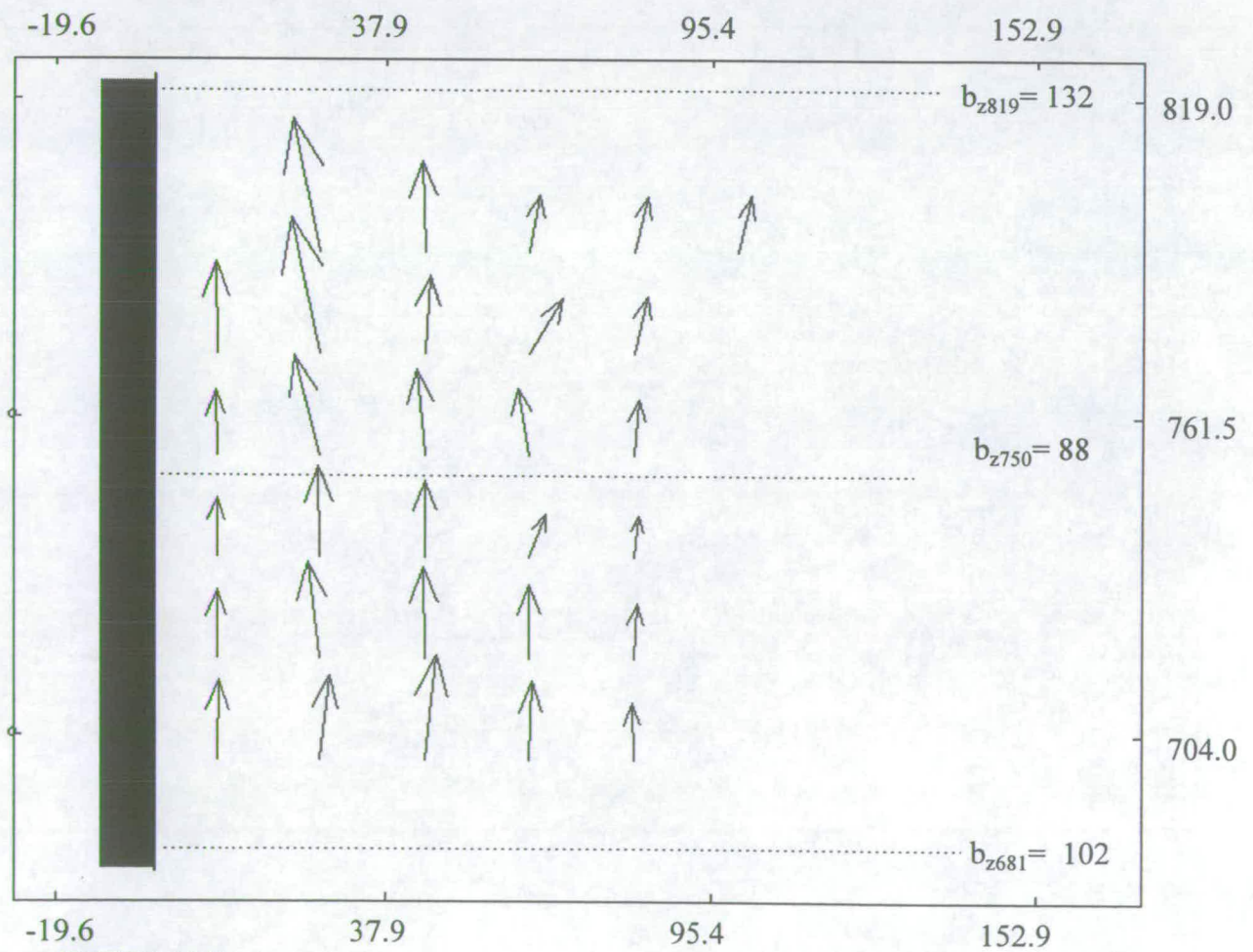
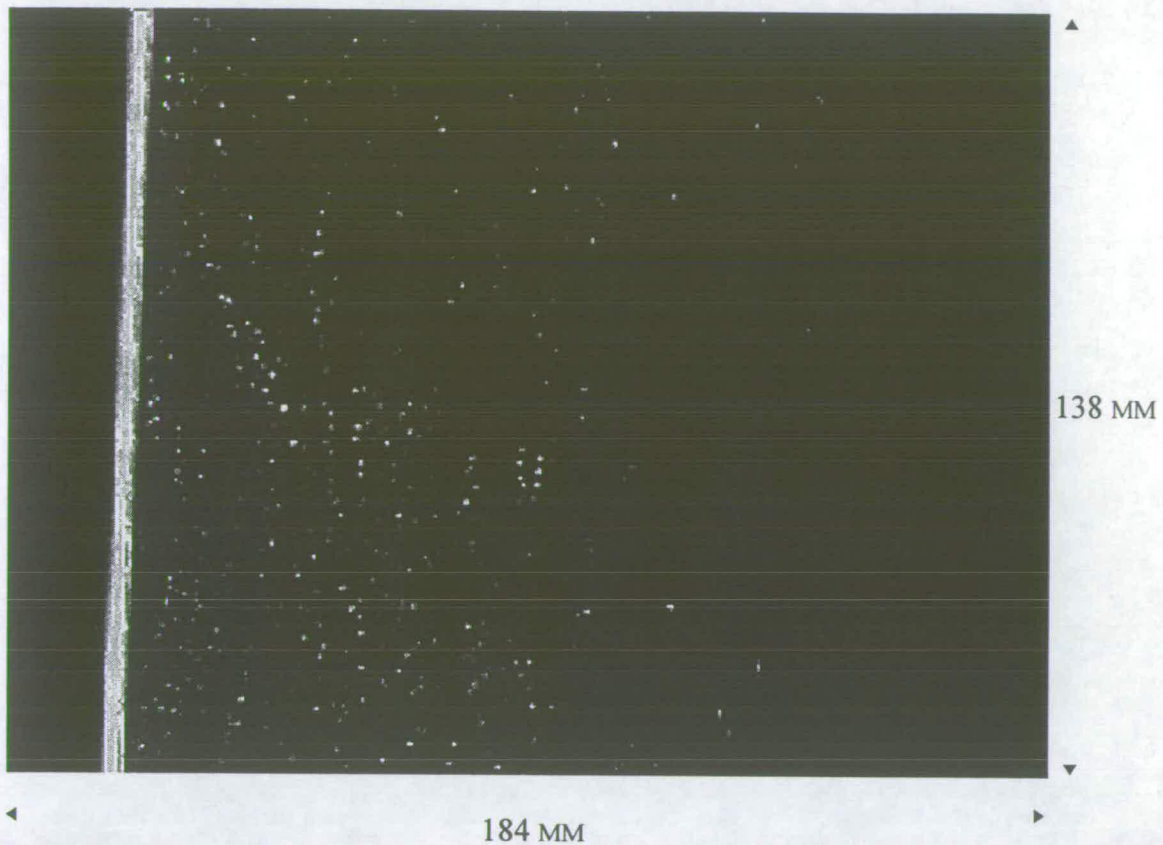
$b_{z681} = 118$

704.0

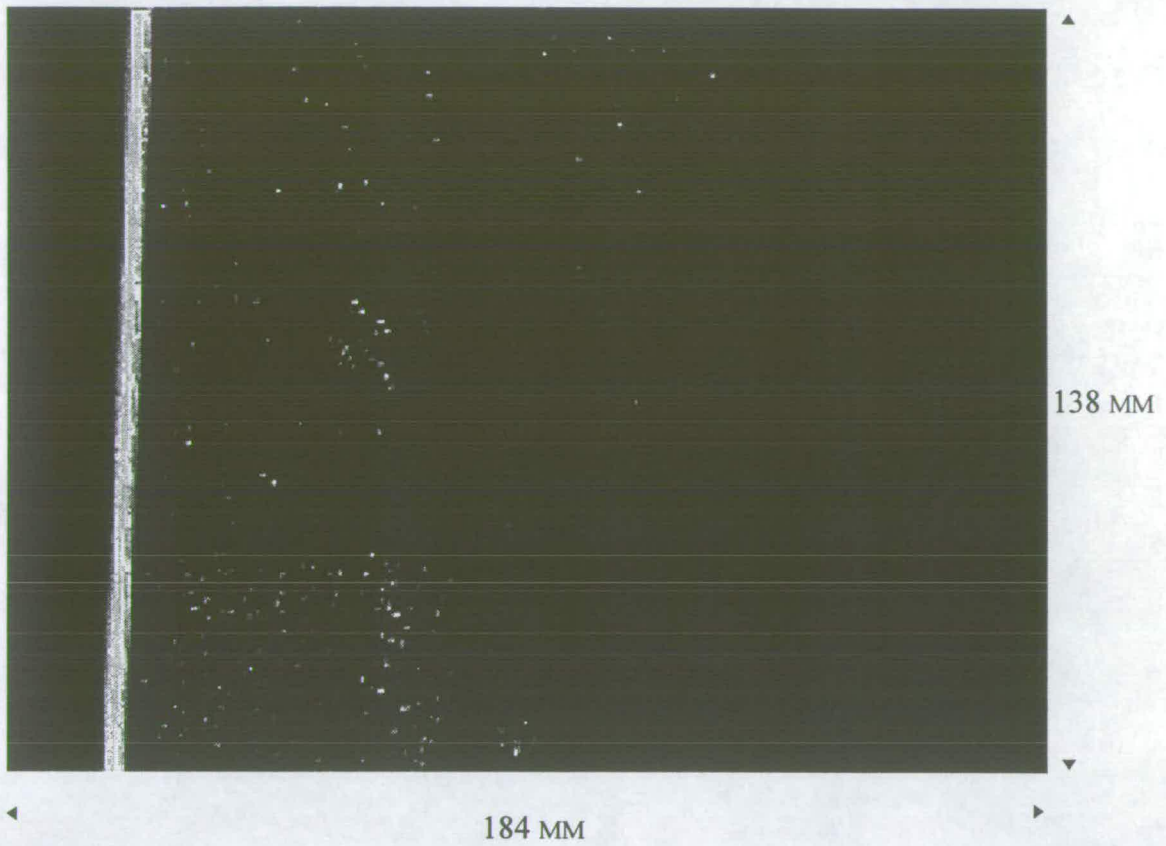
VECTOR MAP

IMAGE NO. 42

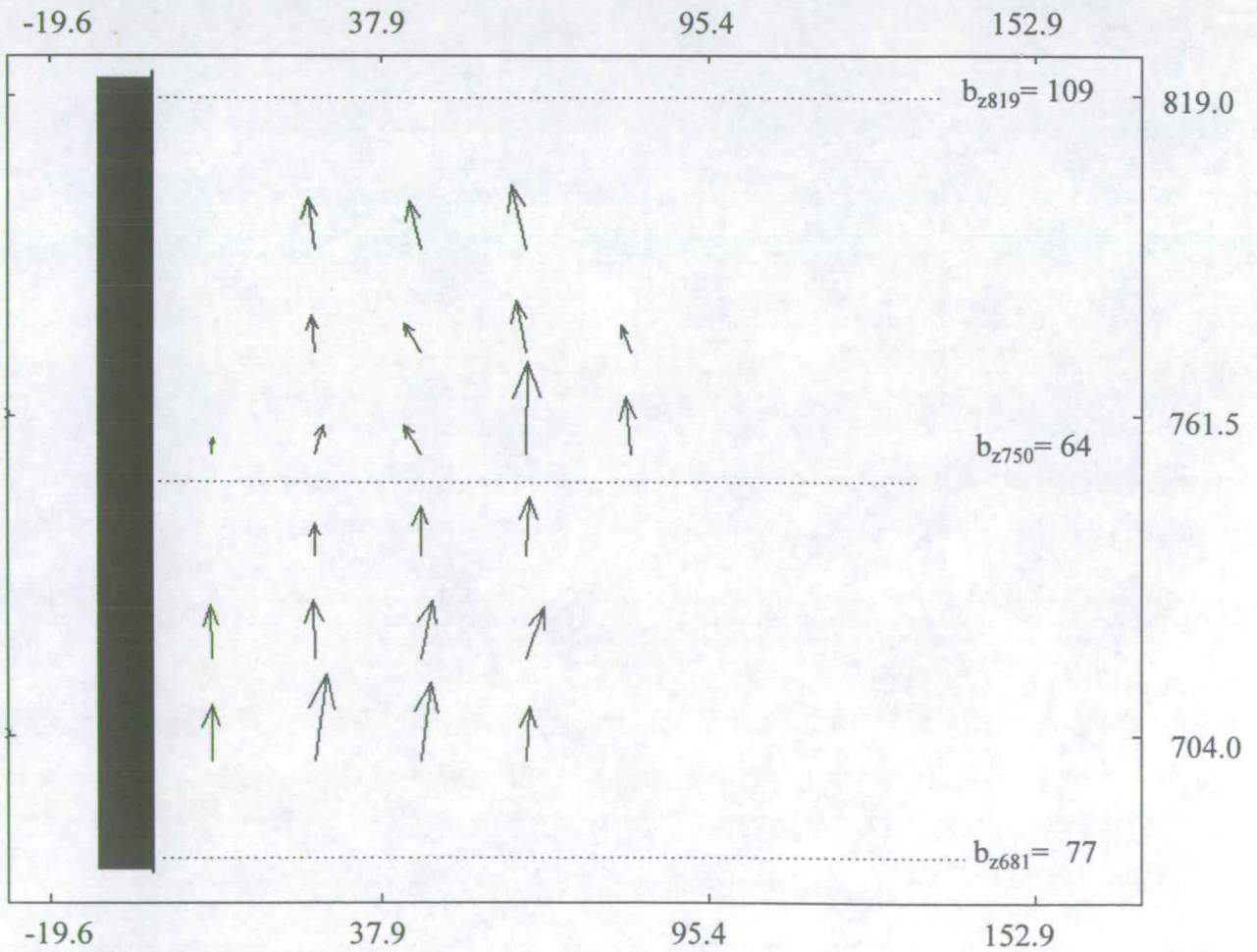
(REF.: D50H03)



(REF.: D50H04)

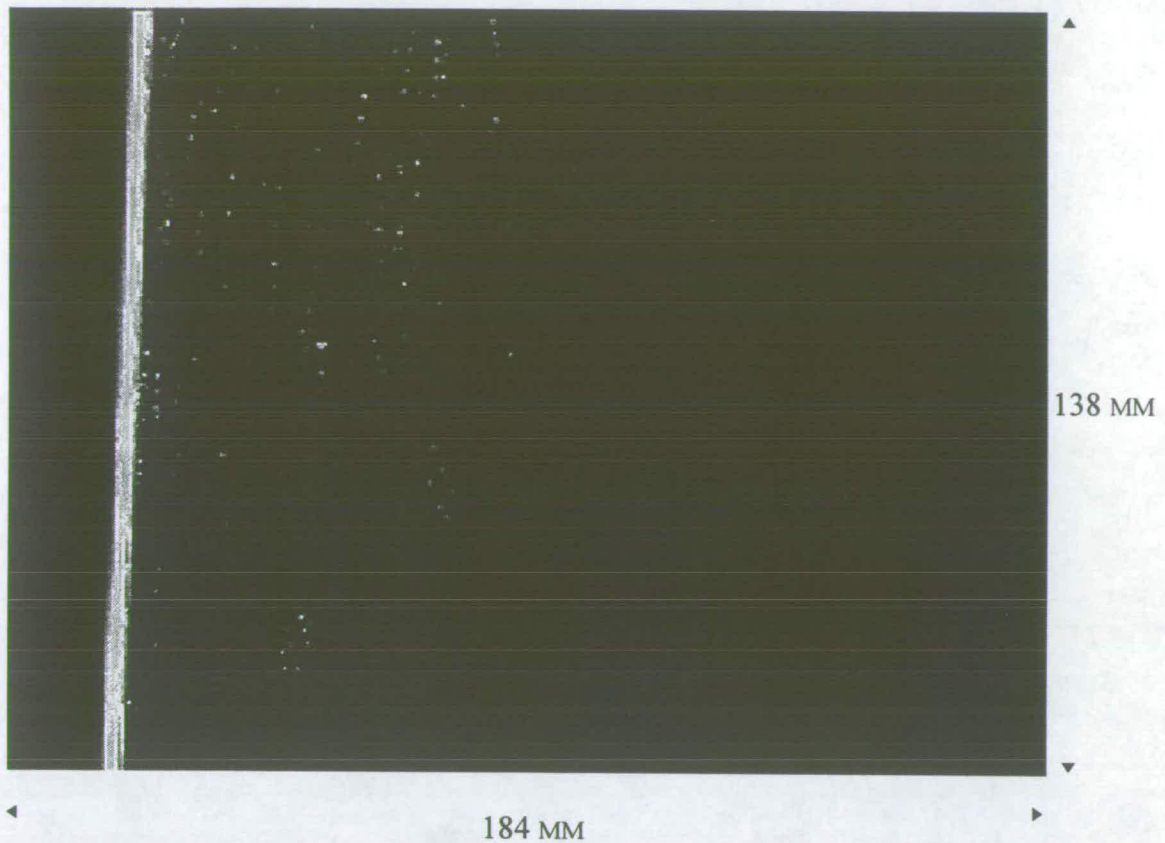


ORIGINAL IMAGE

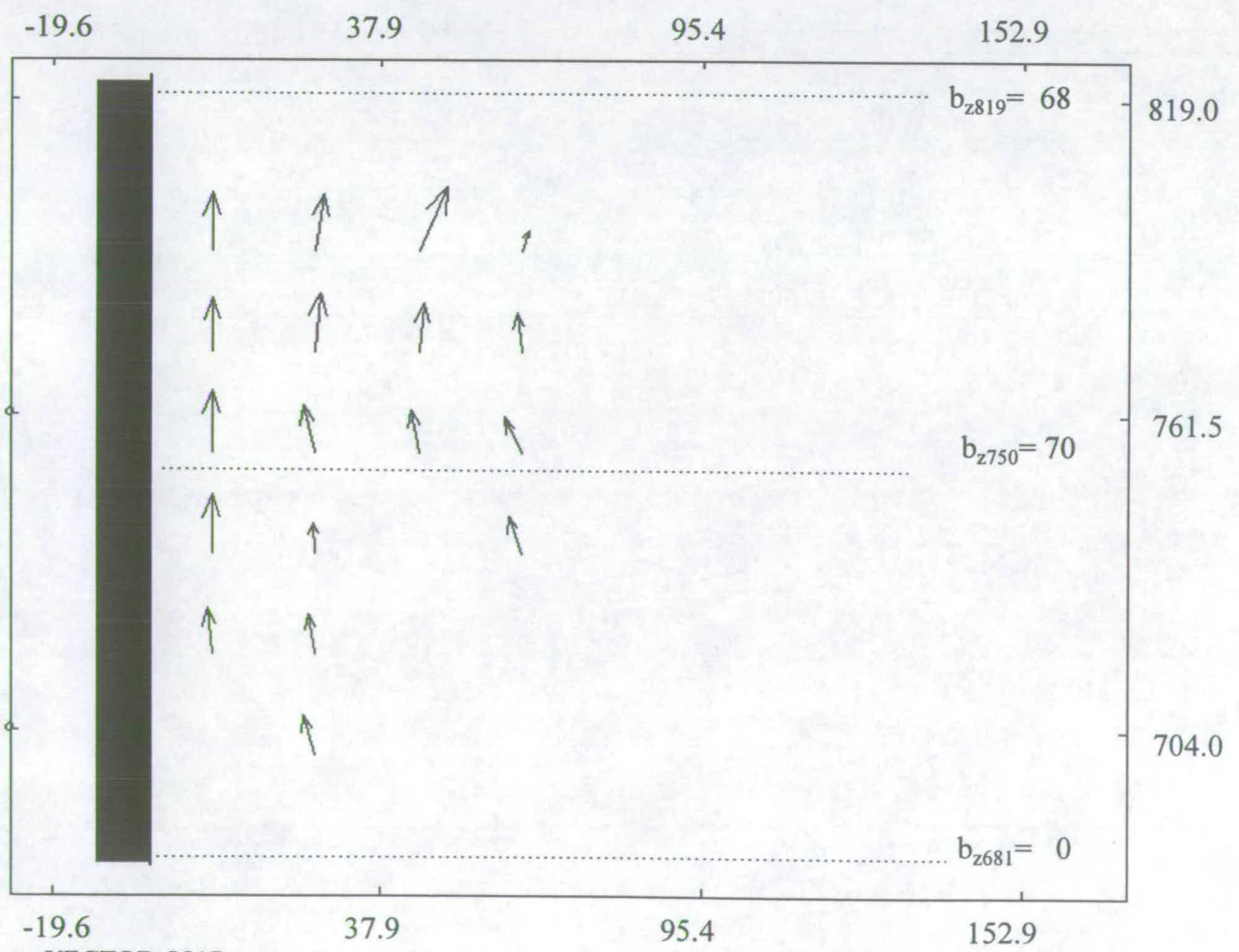


VECTOR MAP  
IMAGE NO. 44

(REF.: D50H05)

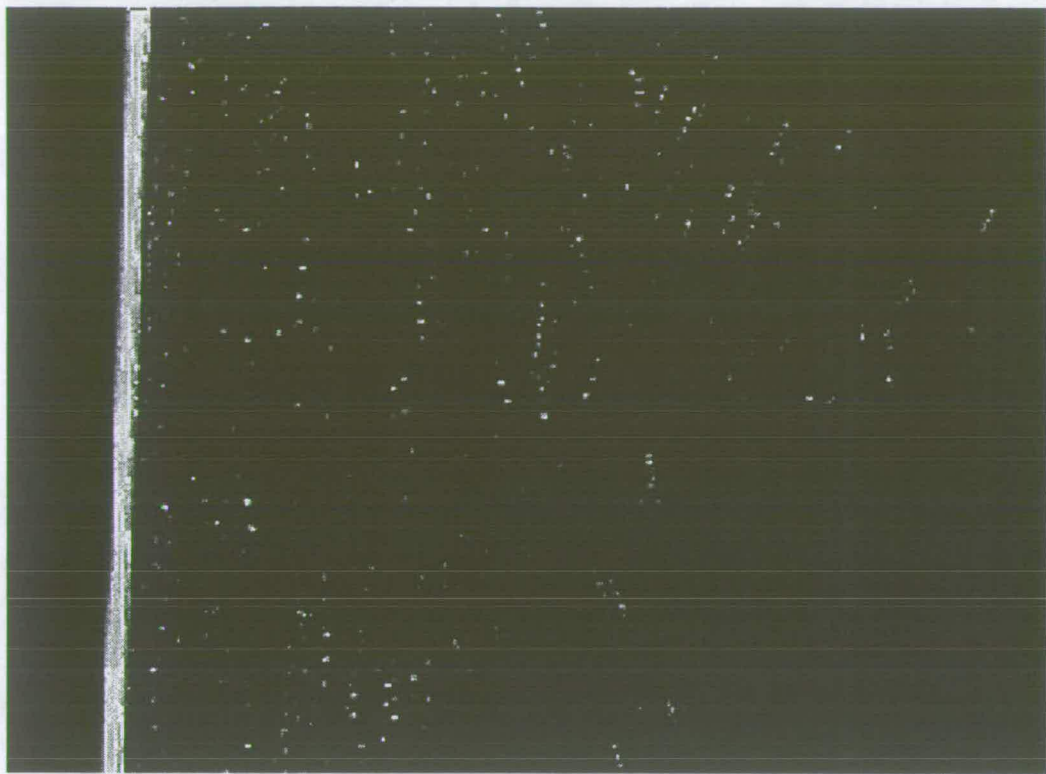


ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 45

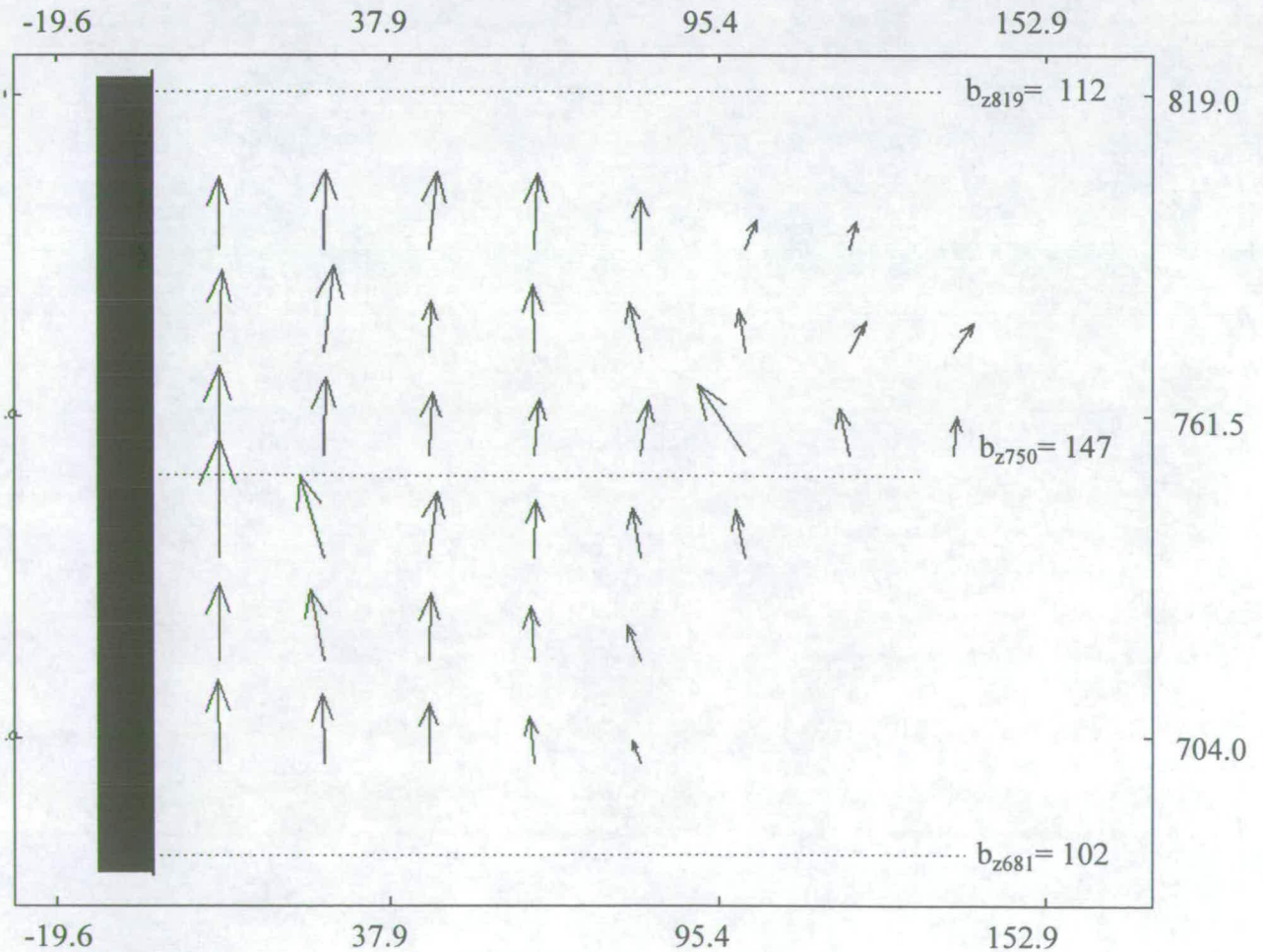
(REF.: D50H20)



138 MM

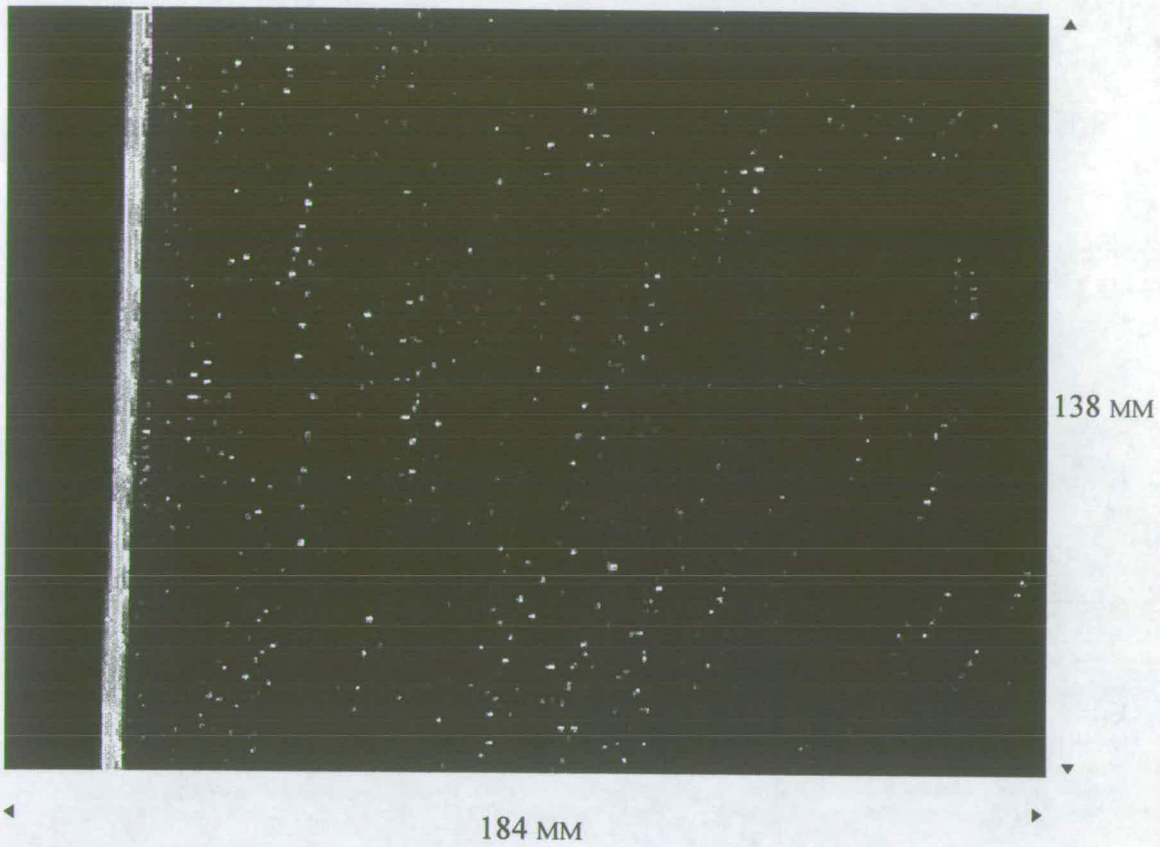
184 MM

ORIGINAL IMAGE

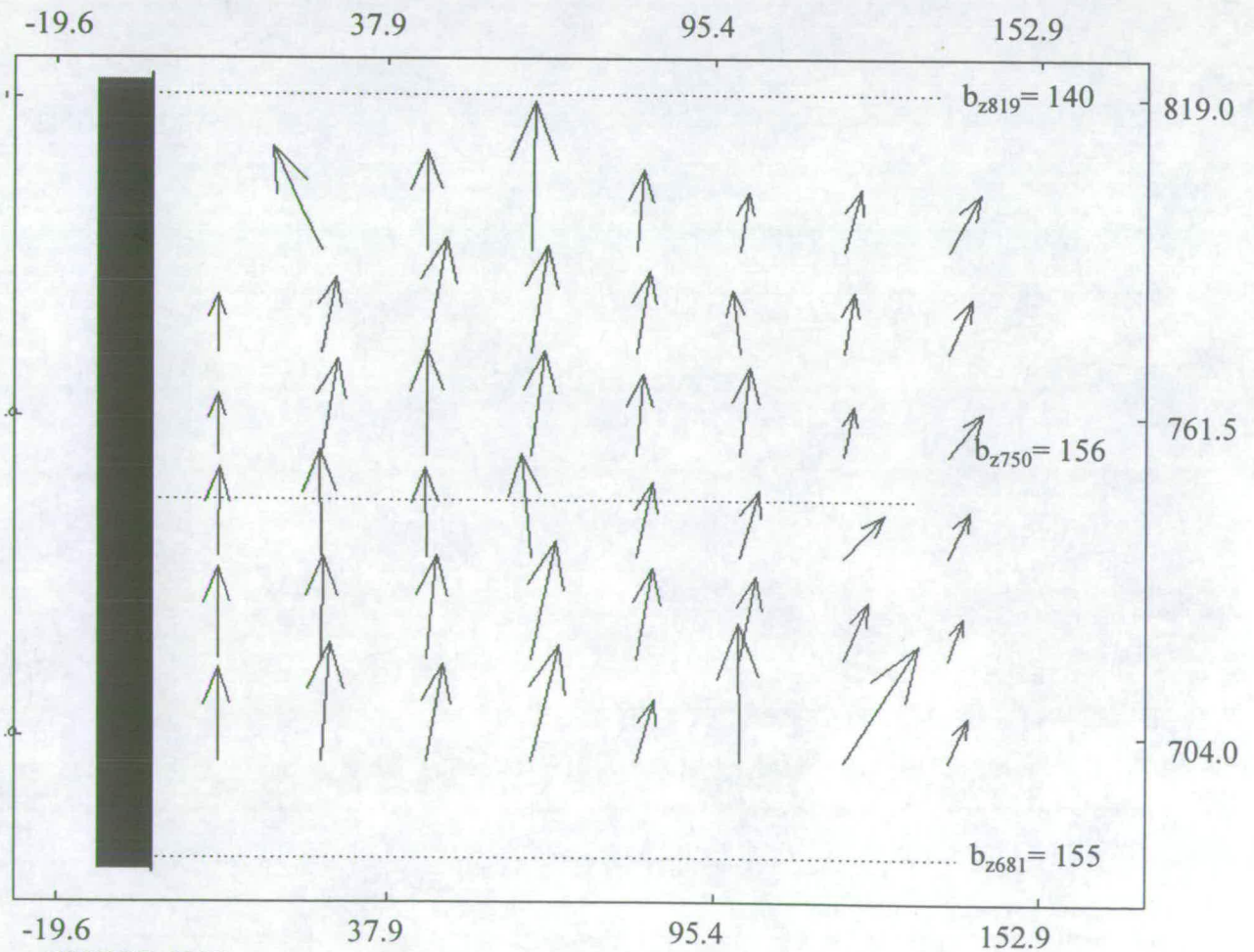


VECTOR MAP  
IMAGE NO. 46

(REF.: D50H22)

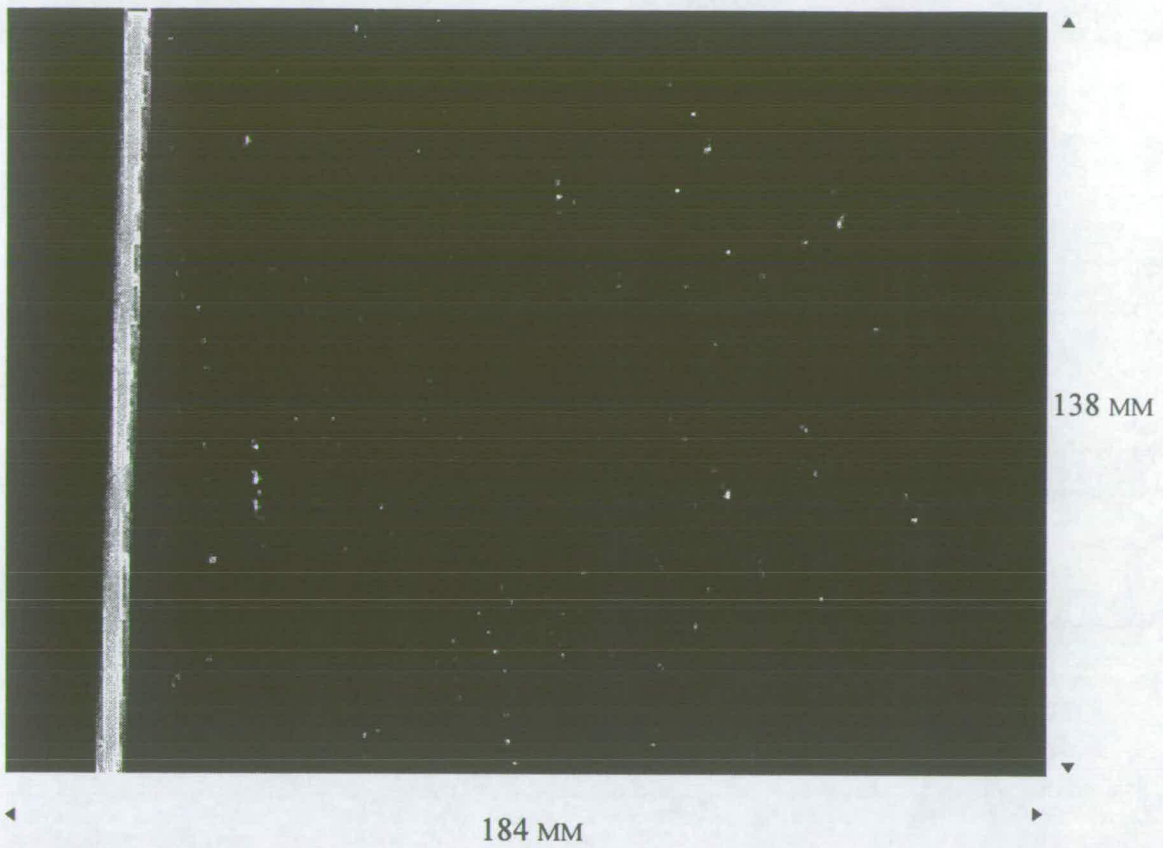


ORIGINAL IMAGE

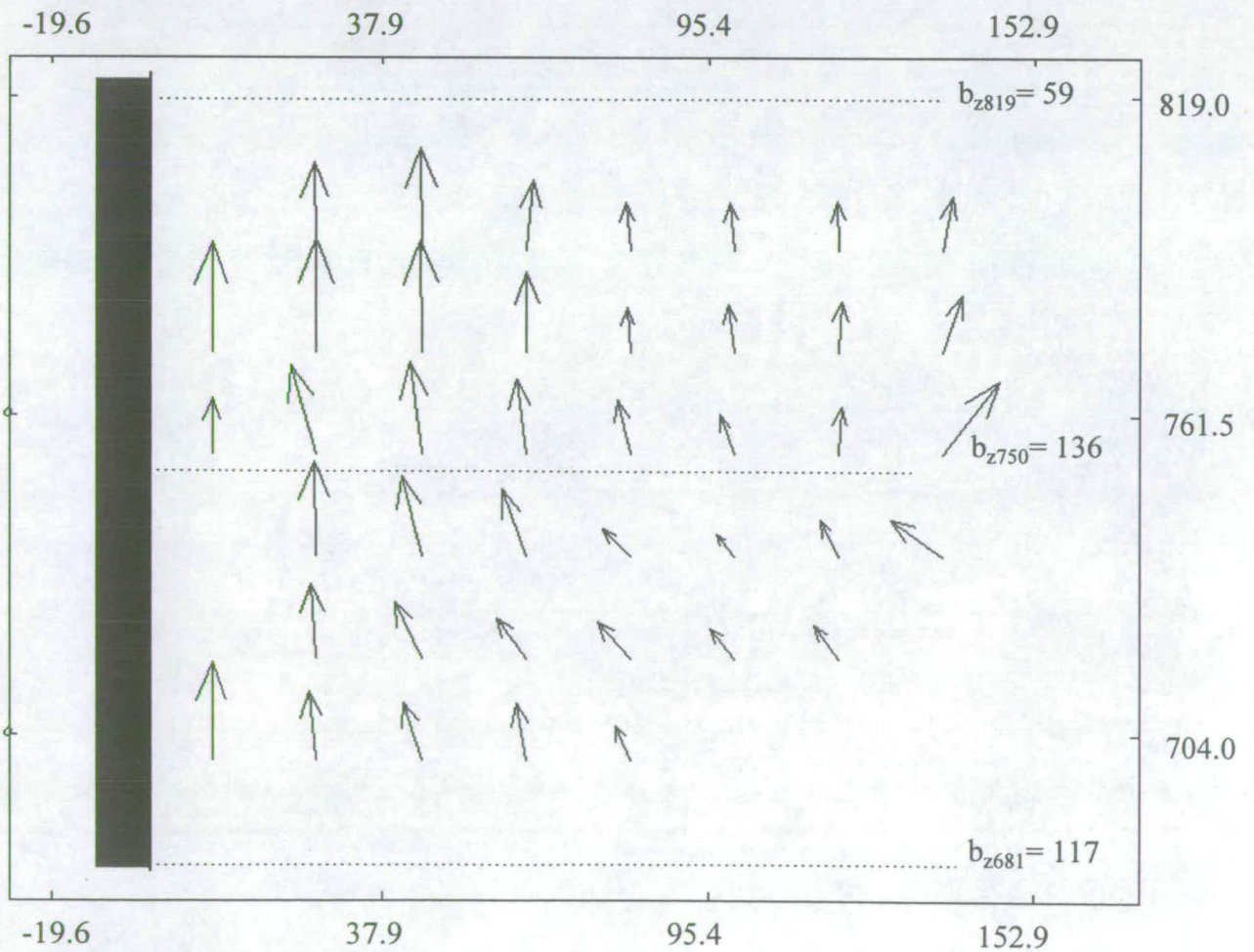


VECTOR MAP  
IMAGE NO. 47

(REF.: D50H25)



ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 48

(REF.: D50H26)

image 41 d50h01

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/preiod	m/s	pix/preiod	m/s		
	7.6	791.4	0.002	0.000	-11.394	1.310	1.000
	26.0	791.4	0.971	0.112	-10.536	1.212	1.321
	44.4	791.4	1.346	0.155	-10.403	1.196	1.101
	62.8	791.4	-1.338	-0.154	-9.389	1.080	1.000
	81.2	791.4	3.627	0.417	-8.230	0.946	1.020
	99.6	791.4	3.383	0.389	-5.852	0.673	1.069
	7.6	773.0	0.010	0.001	-8.195	0.942	1.000
	26.0	773.0	1.174	0.135	-10.164	1.169	1.145
	44.4	773.0	3.737	0.430	-12.166	1.399	1.007
	62.8	773.0	2.297	0.264	-8.832	1.016	1.000
	81.2	773.0	9.448	1.087	-8.134	0.935	1.014
	99.6	773.0	3.150	0.362	-5.539	0.637	1.056
	118.0	773.0	0.435	0.050	-3.691	0.424	1.000
	7.6	754.6	0.003	0.000	-10.979	1.263	1.000
	26.0	754.6	0.798	0.092	-9.240	1.063	1.028
	44.4	754.6	1.003	0.115	-10.714	1.232	1.000
	62.8	754.6	2.336	0.269	-9.292	1.069	1.540
	81.2	754.6	3.128	0.360	-7.116	0.818	1.028
	99.6	754.6	-0.243	-0.028	-4.241	0.488	1.000
	118.0	754.6	0.814	0.094	-4.425	0.509	1.068
	7.6	736.2	0.000	0.000	0.000	0.000	1.000
	26.0	736.2	0.078	0.009	-6.471	0.744	1.108
	44.4	736.2	0.519	0.060	-8.788	1.011	1.299
	62.8	736.2	-0.011	-0.001	-7.581	0.872	1.000
	81.2	736.2	1.913	0.220	-8.020	0.922	1.000
	99.6	736.2	1.831	0.211	-4.531	0.521	1.000
	118.0	736.2	0.786	0.090	-4.808	0.553	1.252
	7.6	717.8	0.000	0.000	0.000	0.000	1.000
	26.0	717.8	-0.181	-0.021	-11.947	1.374	1.000
	44.4	717.8	1.546	0.178	-8.047	0.925	1.118
	62.8	717.8	5.560	0.639	-6.082	0.699	1.051
	81.2	717.8	1.758	0.202	-6.301	0.725	1.020
	99.6	717.8	-0.818	-0.094	-5.360	0.616	1.000
	7.6	699.4	0.000	0.000	0.000	0.000	1.000
	26.0	699.4	0.277	0.032	-5.800	0.667	1.049
	44.4	699.4	0.578	0.066	-7.005	0.806	1.000
	62.8	699.4	-1.483	-0.171	-6.794	0.781	1.000
	81.2	699.4	1.425	0.164	-7.612	0.875	1.100
	99.6	699.4	3.174	0.365	-11.391	1.310	1.014

image42		d50h03					noise
location		location		velocity			
x	y	x	x	y	y		
mm	mm	pix/preiod	m/s	pix/preiod	m/s	snr	
7.6	791.4	0.383	0.044	-10.020	1.152	1.000	
26.0	791.4	0.943	0.108	-6.251	0.719	1.000	
44.4	791.4	0.091	0.010	-4.662	0.536	1.161	
62.8	791.4	0.178	0.020	-0.606	0.070	1.000	
81.2	791.4	0.215	0.025	-2.700	0.311	1.000	
26.0	773.0	0.182	0.021	-8.741	1.005	1.263	
44.4	773.0	-0.262	-0.030	-5.973	0.687	1.013	
62.8	773.0	-1.026	-0.118	-6.714	0.772	1.000	
81.2	773.0	5.161	0.593	-6.618	0.761	1.180	
7.6	754.6	0.007	0.001	-8.790	1.011	1.000	
26.0	754.6	-0.136	-0.016	-6.476	0.745	1.000	
44.4	754.6	-0.629	-0.072	-6.590	0.758	1.000	
62.8	754.6	-0.240	-0.028	-6.494	0.747	1.087	
81.2	754.6	-1.072	-0.123	-7.058	0.812	1.000	
99.6	754.6	0.819	0.094	-5.917	0.680	1.208	
7.6	736.2	0.091	0.010	-7.028	0.808	1.000	
26.0	736.2	0.212	0.024	-5.745	0.661	1.122	
44.4	736.2	0.068	0.008	-6.292	0.724	1.027	
62.8	736.2	-1.810	-0.208	-5.897	0.678	1.000	
81.2	736.2	1.655	0.190	-5.946	0.684	1.054	
99.6	736.2	0.032	0.004	-4.547	0.523	1.000	
7.6	717.8	0.003	0.000	-6.885	0.792	1.000	
26.0	717.8	0.431	0.050	-6.805	0.783	1.000	
44.4	717.8	0.960	0.110	-6.940	0.798	1.310	
62.8	717.8	2.655	0.305	-6.499	0.747	1.000	
81.2	717.8	2.652	0.305	-5.325	0.612	1.078	
99.6	717.8	3.888	0.447	-5.247	0.603	1.327	
7.6	699.4	0.000	0.000	-7.316	0.841	1.000	
26.0	699.4	0.707	0.081	-7.990	0.919	1.000	
44.4	699.4	0.903	0.104	-7.479	0.860	1.066	
62.8	699.4	0.401	0.046	-7.957	0.915	1.000	
81.2	699.4	3.556	0.409	-3.947	0.454	1.006	
99.6	699.4	4.228	0.486	-4.995	0.574	1.081	

image 43 d50h04

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/preiod m/s		pix/preiod m/s		
7.6	791.4	0.000	0.000	0.000	0.000	1.000
26.0	791.4	-2.798	-0.322	-13.958	1.605	1.000
44.4	791.4	-0.238	-0.027	-9.494	1.092	1.000
62.8	791.4	1.115	0.128	-5.977	0.687	1.002
81.2	791.4	1.487	0.171	-5.825	0.670	1.174
99.6	791.4	1.475	0.170	-5.862	0.674	1.000
7.6	773.0	-0.001	0.000	-9.631	1.108	1.000
26.0	773.0	-2.899	-0.333	-14.231	1.637	1.000
44.4	773.0	0.539	0.062	-8.097	0.931	1.000
62.8	773.0	3.406	0.392	-5.786	0.665	1.241
81.2	773.0	1.360	0.156	-5.933	0.682	1.082
7.6	754.6	-0.003	0.000	-6.667	0.767	1.000
26.0	754.6	-2.645	-0.304	-10.421	1.198	1.248
44.4	754.6	-0.702	-0.081	-8.931	1.027	1.104
62.8	754.6	-1.049	-0.121	-6.976	0.802	1.000
81.2	754.6	0.571	0.066	-5.825	0.670	1.082
7.6	736.2	0.004	0.000	-6.112	0.703	1.000
26.0	736.2	-0.039	-0.005	-9.433	1.085	1.000
44.4	736.2	0.086	0.010	-7.988	0.919	1.000
62.8	736.2	1.696	0.195	-4.495	0.517	1.000
81.2	736.2	0.649	0.075	-4.317	0.496	1.000
7.6	717.8	0.019	0.002	-7.085	0.815	1.000
26.0	717.8	-1.142	-0.131	-10.116	1.163	1.000
44.4	717.8	-0.113	-0.013	-9.535	1.096	1.380
62.8	717.8	0.070	0.008	-7.686	0.884	1.124
81.2	717.8	0.389	0.045	-5.779	0.665	1.000
7.6	699.4	0.306	0.035	-8.313	0.956	1.000
26.0	699.4	1.133	0.130	-8.696	1.000	1.000
44.4	699.4	1.274	0.146	-10.936	1.258	1.000
62.8	699.4	0.386	0.044	-8.198	0.943	1.000
81.2	699.4	-0.146	-0.017	-5.889	0.677	1.000

**image 44 d50h05**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/preiod	m/s	pix/preiod	m/s		
7.6	791.4	0.000	0.000	0.000	0.000	0.000	1.000
26.0	791.4	-0.659	-0.076	-5.262	0.605	1.000	
44.4	791.4	-1.081	-0.124	-4.842	0.557	1.074	
62.8	791.4	-1.402	-0.161	-6.612	0.760	1.000	
7.6	773.0	0.000	0.000	0.000	0.000	1.000	
26.0	773.0	-0.282	-0.032	-3.688	0.424	1.379	
44.4	773.0	-1.577	-0.181	-2.996	0.345	1.000	
62.8	773.0	-0.975	-0.112	-5.213	0.600	1.058	
81.2	773.0	-0.863	-0.099	-2.700	0.310	1.000	
7.6	754.6	0.229	0.026	-1.547	0.178	1.000	
26.0	754.6	0.984	0.113	-2.968	0.341	1.000	
44.4	754.6	-1.553	-0.179	-2.967	0.341	1.000	
62.8	754.6	0.195	0.022	-9.526	1.095	1.000	
81.2	754.6	-0.362	-0.042	-5.843	0.672	1.022	
7.6	736.2	0.000	0.000	0.000	0.000	1.000	
26.0	736.2	0.063	0.007	-3.236	0.372	1.532	
44.4	736.2	0.031	0.004	-5.129	0.590	1.342	
62.8	736.2	0.493	0.057	-6.127	0.705	1.039	
7.6	717.8	-0.004	-0.001	-5.423	0.624	1.000	
26.0	717.8	-0.060	-0.007	-5.903	0.679	1.000	
44.4	717.8	1.167	0.134	-5.977	0.687	1.000	
62.8	717.8	1.851	0.213	-5.171	0.595	1.000	
7.6	699.4	0.002	0.000	-5.694	0.655	1.000	
26.0	699.4	1.195	0.137	-8.835	1.016	1.000	
44.4	699.4	1.017	0.117	-8.148	0.937	1.000	
62.8	699.4	0.491	0.056	-5.509	0.633	1.000	

**image 45 d50h20**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/preiod	m/s	pix/preiod	m/s		
7.6	791.4	0.023	0.003	-6.048	0.695	1.000	
26.0	791.4	0.929	0.107	-5.907	0.679	1.000	
44.4	791.4	2.926	0.336	-6.751	0.776	1.167	
62.8	791.4	0.781	0.090	-2.147	0.247	1.000	
7.6	773.0	0.012	0.001	-5.507	0.633	1.000	
26.0	773.0	0.593	0.068	-6.021	0.692	1.000	
44.4	773.0	0.510	0.059	-5.055	0.581	1.000	
62.8	773.0	-0.466	-0.054	-4.066	0.468	1.158	
7.6	754.6	0.004	0.000	-6.425	0.739	1.000	
26.0	754.6	-1.156	-0.133	-4.981	0.573	1.122	
44.4	754.6	-0.694	-0.080	-4.350	0.500	1.000	
62.8	754.6	-1.805	-0.208	-3.692	0.425	1.000	
7.6	736.2	0.000	0.000	-6.080	0.699	1.000	
26.0	736.2	-0.071	-0.008	-3.077	0.354	1.000	
62.8	736.2	-1.272	-0.146	-3.895	0.448	1.220	
7.6	717.8	-0.363	-0.042	-4.715	0.542	1.000	
26.0	717.8	-0.588	-0.068	-4.145	0.477	1.113	
26.0	699.4	-1.082	-0.124	-4.004	0.460	1.000	

image 46 d50h22

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/preiod	m/s	pix/preiod	m/s		
7.6	791.4	0.019	0.002	-7.465	0.858	1.000	
26.0	791.4	0.325	0.037	-8.140	0.936	1.000	
44.4	791.4	0.984	0.113	-7.892	0.908	1.000	
62.8	791.4	0.473	0.054	-7.814	0.899	1.065	
81.2	791.4	0.091	0.011	-5.313	0.611	1.000	
99.6	791.4	1.245	0.143	-2.833	0.326	1.000	
118.0	791.4	0.694	0.080	-2.810	0.323	1.000	
7.6	773.0	0.359	0.041	-8.402	0.966	1.000	
26.0	773.0	1.121	0.129	-8.915	1.025	1.000	
44.4	773.0	0.249	0.029	-5.286	0.608	1.000	
62.8	773.0	-0.123	-0.014	-6.854	0.788	1.000	
81.2	773.0	-1.062	-0.122	-5.026	0.578	1.000	
99.6	773.0	-0.569	-0.065	-4.385	0.504	1.188	
118.0	773.0	1.694	0.195	-3.132	0.360	1.000	
136.4	773.0	2.047	0.235	-2.996	0.344	1.000	
7.6	754.6	0.005	0.001	-9.153	1.053	1.000	
26.0	754.6	0.237	0.027	-7.919	0.911	1.000	
44.4	754.6	0.432	0.050	-6.481	0.745	1.128	
62.8	754.6	0.645	0.074	-5.754	0.662	1.000	
81.2	754.6	0.877	0.101	-5.569	0.640	1.000	
99.6	754.6	-4.704	-0.541	-7.236	0.832	1.059	
118.0	754.6	-0.842	-0.097	-4.761	0.547	1.113	
136.4	754.6	0.475	0.055	-3.943	0.453	1.452	
7.6	736.2	0.002	0.000	-12.250	1.409	1.000	
26.0	736.2	-2.184	-0.251	-8.353	0.961	1.000	
44.4	736.2	0.838	0.096	-6.804	0.782	1.000	
62.8	736.2	0.295	0.034	-5.958	0.685	1.041	
81.2	736.2	-0.818	-0.094	-5.105	0.587	1.019	
99.6	736.2	-0.964	-0.111	-4.961	0.571	1.000	
7.6	717.8	0.000	0.000	-7.924	0.911	1.000	
26.0	717.8	-1.212	-0.139	-7.302	0.840	1.000	
44.4	717.8	0.219	0.025	-6.834	0.786	1.000	
62.8	717.8	-0.325	-0.037	-5.523	0.635	1.019	
81.2	717.8	-1.308	-0.150	-3.570	0.411	1.000	
7.6	699.4	-0.003	0.000	-8.654	0.995	1.000	
26.0	699.4	-0.108	-0.012	-7.021	0.807	1.000	
44.4	699.4	0.012	0.001	-6.127	0.705	1.000	
62.8	699.4	-0.389	-0.045	-4.756	0.547	1.017	
81.2	699.4	-0.720	-0.083	-2.230	0.256	1.000	

image 47 d50h25

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/preiod	m/s	pix/preiod	m/s	
7.6	791.4	0.000	0.000	0.000	0.000	1.000
26.0	791.4	-4.880	-0.561	-10.683	1.229	1.085
44.4	791.4	0.060	0.007	-10.407	1.197	1.000
62.8	791.4	0.421	0.048	-15.624	1.797	1.345
81.2	791.4	0.736	0.085	-8.443	0.971	1.000
99.6	791.4	0.900	0.104	-6.088	0.700	1.000
118.0	791.4	1.715	0.197	-6.389	0.735	1.000
136.4	791.4	3.217	0.370	-5.990	0.689	1.254
7.6	773.0	0.069	0.008	-5.930	0.682	1.000
26.0	773.0	1.619	0.186	-7.679	0.883	1.000
44.4	773.0	2.033	0.234	-11.996	1.380	1.000
62.8	773.0	1.820	0.209	-11.083	1.275	1.000
81.2	773.0	1.468	0.169	-8.442	0.971	1.000
99.6	773.0	-0.705	-0.081	-6.428	0.739	1.000
118.0	773.0	1.031	0.119	-6.329	0.728	1.257
136.4	773.0	2.360	0.271	-5.629	0.647	1.282
7.6	754.6	0.012	0.001	-6.329	0.728	1.000
26.0	754.6	1.762	0.203	-9.840	1.132	1.000
44.4	754.6	0.094	0.011	-11.030	1.268	1.000
62.8	754.6	1.486	0.171	-10.817	1.244	1.000
81.2	754.6	0.699	0.080	-8.352	0.960	1.000
99.6	754.6	1.103	0.127	-9.021	1.037	1.000
118.0	754.6	1.096	0.126	-5.141	0.591	1.000
136.4	754.6	3.664	0.421	-4.449	0.512	1.089
7.6	736.2	0.184	0.021	-9.211	1.059	1.000
26.0	736.2	-0.153	-0.018	-11.072	1.273	1.000
44.4	736.2	-0.124	-0.014	-9.311	1.071	1.000
62.8	736.2	-0.983	-0.113	-10.781	1.240	1.000
81.2	736.2	1.719	0.198	-7.738	0.890	1.000
99.6	736.2	2.008	0.231	-6.998	0.805	1.009
118.0	736.2	4.170	0.480	-4.453	0.512	1.223
136.4	736.2	2.212	0.254	-4.756	0.547	1.000
7.6	717.8	0.003	0.000	-9.364	1.077	1.000
26.0	717.8	0.184	0.021	-10.568	1.215	1.127
44.4	717.8	1.088	0.125	-10.748	1.236	1.146
62.8	717.8	2.599	0.299	-12.178	1.400	1.315
81.2	717.8	1.832	0.211	-9.361	1.077	1.327
99.6	717.8	1.803	0.207	-8.624	0.992	1.140
118.0	717.8	2.661	0.306	-5.999	0.690	1.810
136.4	717.8	1.525	0.175	-4.301	0.495	1.000
7.6	699.4	0.003	0.000	-9.567	1.100	1.000
26.0	699.4	0.915	0.105	-12.253	1.409	1.000
44.4	699.4	1.768	0.203	-10.084	1.160	1.000
62.8	699.4	2.982	0.343	-12.063	1.387	1.390
81.2	699.4	1.907	0.219	-6.368	0.732	1.000
99.6	699.4	-0.096	-0.011	-14.444	1.661	1.000
118.0	699.4	7.817	0.899	-12.044	1.385	1.006
136.4	699.4	2.022	0.233	-4.549	0.523	1.000

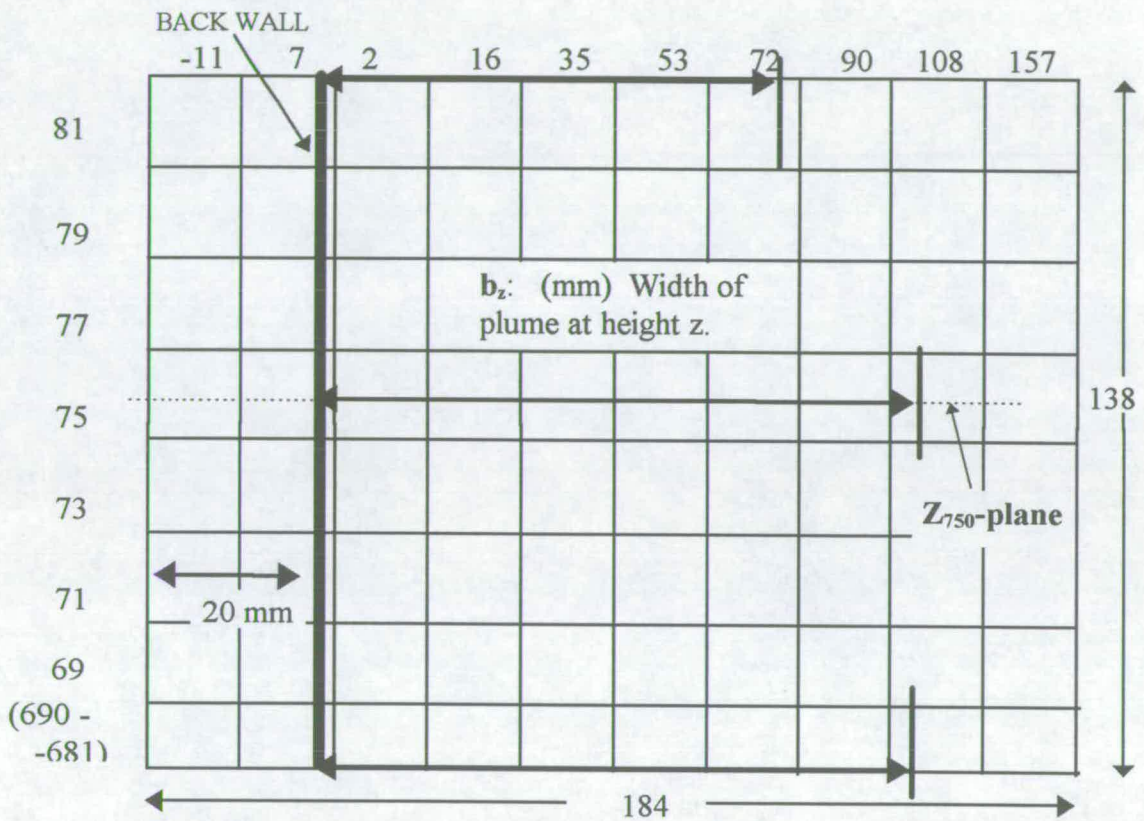
image 48 d50h26

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/preiod	m/s	pix/preiod	m/s	
7.6	791.4	0.000	0.000	0.000	0.000	1.000
26.0	791.4	-0.068	-0.008	-9.009	1.036	1.000
44.4	791.4	-0.058	-0.007	-10.580	1.217	1.000
62.8	791.4	0.775	0.089	-7.201	0.828	1.000
81.2	791.4	-0.461	-0.053	-4.855	0.558	1.000
99.6	791.4	-0.477	-0.055	-4.919	0.566	1.042
118.0	791.4	-0.115	-0.013	-5.017	0.577	1.141
136.4	791.4	1.072	0.123	-5.518	0.635	1.148
7.6	773.0	0.003	0.000	-11.396	1.311	1.000
26.0	773.0	0.155	0.018	-11.680	1.343	1.000
44.4	773.0	-0.020	-0.002	-11.667	1.342	1.000
62.8	773.0	0.156	0.018	-8.290	0.953	1.000
81.2	773.0	-0.319	-0.037	-4.588	0.528	1.000
99.6	773.0	-0.598	-0.069	-4.938	0.568	1.052
118.0	773.0	0.442	0.051	-5.178	0.595	1.142
136.4	773.0	2.095	0.241	-5.965	0.686	1.112
7.6	754.6	0.001	0.000	-5.795	0.666	1.000
26.0	754.6	-2.367	-0.272	-9.206	1.059	1.057
44.4	754.6	-1.121	-0.129	-9.573	1.101	1.351
62.8	754.6	-0.972	-0.112	-7.823	0.900	1.466
81.2	754.6	-1.277	-0.147	-5.630	0.647	1.002
99.6	754.6	-1.461	-0.168	-4.029	0.463	1.041
118.0	754.6	0.344	0.040	-4.967	0.571	1.014
136.4	754.6	5.867	0.675	-7.618	0.876	1.065
7.6	736.2	0.000	0.000	0.000	0.000	1.000
26.0	736.2	-0.139	-0.016	-9.754	1.122	1.000
44.4	736.2	-1.964	-0.226	-8.329	0.958	1.000
62.8	736.2	-2.366	-0.272	-6.870	0.790	1.050
81.2	736.2	-2.692	-0.310	-2.775	0.319	1.146
99.6	736.2	-1.671	-0.192	-2.219	0.255	1.000
118.0	736.2	-1.808	-0.208	-3.769	0.433	1.025
136.4	736.2	-5.212	-0.599	-3.820	0.439	1.106
7.6	717.8	0.000	0.000	0.000	0.000	1.000
26.0	717.8	-0.369	-0.042	-7.665	0.881	1.000
44.4	717.8	-2.618	-0.301	-5.798	0.667	1.240
62.8	717.8	-2.896	-0.333	-4.138	0.476	1.578
81.2	717.8	-3.236	-0.372	-3.734	0.429	1.000
99.6	717.8	-2.349	-0.270	-3.090	0.355	1.042
118.0	717.8	-2.365	-0.272	-3.380	0.389	1.762
7.6	699.4	0.000	0.000	-10.030	1.153	1.000
26.0	699.4	-0.509	-0.059	-7.161	0.824	1.052
44.4	699.4	-1.737	-0.200	-5.979	0.688	1.207
62.8	699.4	-0.917	-0.106	-5.910	0.680	1.000
81.2	699.4	-1.354	-0.156	-3.600	0.414	1.000

## IMAGES 44.0 TO 44.15:

### FLOW FROM FIRE COMPARTMENT (Z-PLANE)

660 mm long compartment; 50 mm deep downstand;  
no balcony; 4.61 kw heat source



### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 44.0 TO 44.15

Interrogation areas 18.4 mm x 18.4 mm.

SCALE: 1 PIXEL = 0.575 MM

File references: d50h0 to d50h20

Image 44.0		d0h05					
location		velocity				noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.000	0.000	0.000	0.000	1.000	
26.0	791.4	-0.659	-0.076	-5.262	0.605	1.000	
44.4	791.4	-1.081	-0.124	-4.842	0.557	1.074	
62.8	791.4	-1.402	-0.161	-6.612	0.760	1.000	
7.6	773.0	0.000	0.000	0.000	0.000	1.000	
26.0	773.0	-0.282	-0.032	-3.688	0.424	1.379	
44.4	773.0	-1.577	-0.181	-2.996	0.345	1.000	
62.8	773.0	-0.975	-0.112	-5.213	0.600	1.058	
81.2	773.0	-0.863	-0.099	-2.700	0.310	1.000	
7.6	754.6	0.229	0.026	-1.547	0.178	1.000	
26.0	754.6	0.984	0.113	-2.968	0.341	1.000	
44.4	754.6	-1.553	-0.179	-2.967	0.341	1.000	
62.8	754.6	0.195	0.022	-9.526	1.095	1.000	
81.2	754.6	-0.362	-0.042	-5.843	0.672	1.022	
7.6	736.2	0.000	0.000	0.000	0.000	1.000	
26.0	736.2	0.063	0.007	-3.236	0.372	1.532	
44.4	736.2	0.031	0.004	-5.129	0.590	1.342	
62.8	736.2	0.493	0.057	-6.127	0.705	1.039	
7.6	717.8	-0.004	-0.001	-5.423	0.624	1.000	
26.0	717.8	-0.060	-0.007	-5.903	0.679	1.000	
44.4	717.8	1.167	0.134	-5.977	0.687	1.000	
62.8	717.8	1.851	0.213	-5.171	0.595	1.000	
7.6	699.4	0.002	0.000	-5.694	0.655	1.000	
26.0	699.4	1.195	0.137	-8.835	1.016	1.000	
44.4	699.4	1.017	0.117	-8.148	0.937	1.000	
62.8	699.4	0.491	0.056	-5.509	0.633	1.000	

Image 44.1		d0h06					
location		velocity				noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
21.4	796.0	-0.692	-0.080	-4.201	0.483	1.075	
21.4	777.6	-1.427	-0.164	-4.907	0.564	1.000	
39.8	777.6	-0.347	-0.040	-3.197	0.368	1.000	
58.2	777.6	0.531	0.061	-4.573	0.526	1.037	
21.4	759.2	2.129	0.245	-1.314	0.151	1.000	
39.8	759.2	0.494	0.057	-5.299	0.609	1.000	
58.2	759.2	1.400	0.161	-5.403	0.621	1.346	
76.6	759.2	1.347	0.155	-4.910	0.565	1.192	
3.0	740.8	0.000	0.000	0.000	0.000	1.000	
21.4	740.8	1.207	0.139	-3.970	0.456	1.538	
39.8	740.8	2.677	0.308	-7.421	0.853	1.030	
58.2	740.8	2.686	0.309	-5.922	0.681	1.812	
76.6	740.8	1.243	0.143	-4.418	0.508	1.000	
3.0	722.4	-0.002	0.000	-3.806	0.438	1.000	
21.4	722.4	0.336	0.039	-6.562	0.755	1.000	
39.8	722.4	0.894	0.103	-5.685	0.654	1.000	
58.2	722.4	0.102	0.012	-2.948	0.339	1.000	
76.6	722.4	0.036	0.004	-2.719	0.313	1.000	
3.0	704.0	0.000	0.000	-4.156	0.478	1.000	
21.4	704.0	1.804	0.207	-4.259	0.490	1.000	
39.8	704.0	0.948	0.109	-6.972	0.802	1.000	
58.2	704.0	0.605	0.070	-4.784	0.550	1.211	

Image44.2		d0h07					noise
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.000	0.000	0.000	0.000	1.000	
26.0	791.4	4.756	0.547	-6.007	0.691	1.389	
44.4	791.4	2.064	0.237	-5.862	0.674	1.000	
62.8	791.4	1.356	0.156	-2.959	0.340	1.000	
81.2	791.4	0.897	0.103	-2.711	0.312	1.000	
7.6	773.0	0.009	0.001	-8.543	0.982	1.000	
26.0	773.0	-0.329	-0.038	-7.656	0.880	1.000	
44.4	773.0	0.967	0.111	-11.889	1.367	1.000	
62.8	773.0	1.109	0.128	-4.373	0.503	1.000	
81.2	773.0	0.612	0.070	-4.584	0.527	1.000	
7.6	754.6	0.328	0.038	-8.206	0.944	1.000	
26.0	754.6	0.919	0.106	-8.832	1.016	1.103	
44.4	754.6	2.879	0.331	-6.323	0.727	1.349	
62.8	754.6	2.371	0.273	-5.875	0.676	1.000	
81.2	754.6	-0.316	-0.036	-3.920	0.451	1.000	
7.6	736.2	0.003	0.000	-7.706	0.886	1.000	
26.0	736.2	1.103	0.127	-7.699	0.885	1.000	
44.4	736.2	2.104	0.242	-6.766	0.778	1.328	
62.8	736.2	3.458	0.398	-6.009	0.691	1.294	
81.2	736.2	2.624	0.302	-8.559	0.984	1.015	
7.6	717.8	-0.003	0.000	-7.697	0.885	1.000	
26.0	717.8	-0.966	-0.111	-7.618	0.876	1.000	
44.4	717.8	0.859	0.099	-7.419	0.853	1.000	
62.8	717.8	2.241	0.258	-6.025	0.693	1.052	
81.2	717.8	4.288	0.493	-3.567	0.410	1.249	
7.6	699.4	-0.003	0.000	-5.195	0.597	1.000	
26.0	699.4	-0.228	-0.026	-6.607	0.760	1.040	
44.4	699.4	-0.288	-0.033	-6.175	0.710	1.000	
62.8	699.4	0.194	0.022	-5.999	0.690	1.000	
81.2	699.4	2.982	0.343	-2.823	0.325	1.070	

Image 44.3		d0h08					noise
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.010	0.001	-5.815	0.669	1.000	
26.0	791.4	-1.092	-0.126	-6.731	0.774	1.000	
44.4	791.4	2.522	0.290	-5.847	0.672	1.395	
62.8	791.4	2.026	0.233	-4.396	0.506	1.000	
81.2	791.4	1.059	0.122	-4.203	0.483	1.000	
99.6	791.4	-0.977	-0.112	-2.188	0.252	1.000	
7.6	773.0	0.007	0.001	-6.902	0.794	1.000	
26.0	773.0	0.004	0.000	-6.998	0.805	1.000	
44.4	773.0	1.520	0.175	-5.331	0.613	1.006	
62.8	773.0	2.741	0.315	-2.236	0.257	1.089	
81.2	773.0	2.864	0.329	-4.061	0.467	1.235	
99.6	773.0	1.248	0.144	-6.900	0.794	1.000	
7.6	754.6	0.004	0.000	-5.938	0.683	1.000	
26.0	754.6	-0.229	-0.026	-6.598	0.759	1.000	
44.4	754.6	0.594	0.068	-6.651	0.765	1.000	
62.8	754.6	0.047	0.005	-6.665	0.766	1.000	
81.2	754.6	1.138	0.131	-4.549	0.523	1.144	
99.6	754.6	0.204	0.023	-2.308	0.265	1.672	
7.6	736.2	0.000	0.000	0.000	0.000	1.000	
26.0	736.2	-1.786	-0.205	-5.060	0.582	1.000	
44.4	736.2	-0.777	-0.089	-5.371	0.618	1.000	
62.8	736.2	-0.268	-0.031	-5.162	0.594	1.126	
81.2	736.2	1.388	0.160	-4.134	0.475	1.000	
99.6	736.2	2.501	0.288	-1.855	0.213	1.000	
7.6	717.8	-0.001	0.000	-5.456	0.627	1.000	
26.0	717.8	-0.037	-0.004	-4.857	0.559	1.000	
44.4	717.8	-0.428	-0.049	-4.564	0.525	1.000	
62.8	717.8	-1.661	-0.191	-4.739	0.545	1.000	
81.2	717.8	-2.401	-0.276	-2.546	0.293	1.000	
99.6	717.8	-1.508	-0.173	-1.660	0.191	1.000	
7.6	699.4	0.002	0.000	-5.613	0.646	1.000	
26.0	699.4	-0.154	-0.018	-5.162	0.594	1.147	
44.4	699.4	-0.594	-0.068	-4.777	0.549	1.223	
62.8	699.4	0.428	0.049	-4.085	0.470	1.204	
81.2	699.4	4.222	0.485	-3.748	0.431	1.040	

Image 44.4		d0h09					noise	
location	location	velocity						
x	y	x	x	y	y	noise		
mm	mm	p/p	m/s	p/p	m/s	snr		
7.6	791.4	0.000	0.000	0.000	0.000	1.000		
26.0	791.4	-0.610	-0.070	-3.861	0.444	1.041		
44.4	791.4	-1.008	-0.116	-4.703	0.541	1.000		
62.8	791.4	0.153	0.018	-4.813	0.554	1.000		
81.2	791.4	1.047	0.120	-6.097	0.701	1.000		
99.6	791.4	-7.267	-0.836	-3.149	0.362	1.364		
118.0	791.4	2.852	0.328	-2.555	0.294	1.289		
7.6	773.0	-0.003	0.000	-4.682	0.538	1.000		
26.0	773.0	-0.696	-0.080	-5.937	0.683	1.000		
44.4	773.0	-1.507	-0.173	-5.199	0.598	1.000		
62.8	773.0	-1.637	-0.188	-4.605	0.530	1.000		
81.2	773.0	-0.514	-0.059	-4.077	0.469	1.000		
99.6	773.0	-5.246	-0.603	-0.473	0.054	1.107		
118.0	773.0	6.156	0.708	-2.962	0.341	1.000		
26.0	754.6	-0.002	0.000	-5.717	0.657	1.000		
44.4	754.6	-1.385	-0.159	-4.988	0.574	1.000		
62.8	754.6	-2.836	-0.326	-3.800	0.437	1.617		
81.2	754.6	-0.588	-0.068	-3.152	0.362	1.000		
99.6	754.6	-2.380	-0.274	-4.788	0.551	1.008		
118.0	754.6	3.759	0.432	-7.708	0.886	1.000		
7.6	736.2	0.004	0.000	-8.631	0.993	1.000		
26.0	736.2	-0.209	-0.024	-7.141	0.821	1.051		
44.4	736.2	-1.375	-0.158	-5.097	0.586	1.071		
62.8	736.2	-1.836	-0.211	-4.272	0.491	1.000		
7.6	717.8	0.004	0.000	-7.374	0.848	1.000		
26.0	717.8	-0.209	-0.024	-7.913	0.910	1.000		
44.4	717.8	-0.529	-0.061	-6.486	0.746	1.031		
7.6	699.4	0.000	0.000	-12.922	1.486	1.000		
26.0	699.4	0.778	0.089	-9.657	1.111	1.000		
44.4	699.4	-0.004	0.000	-6.029	0.693	1.000		

Image 44.5		d0h10					noise	
location	location	velocity						
x	y	x	x	y	y	noise		
mm	mm	p/p	m/s	p/p	m/s	snr		
7.6	791.4	0.000	0.000	0.000	0.000	1.000		
26.0	791.4	-0.277	-0.032	-4.202	0.483	1.037		
44.4	791.4	-1.078	-0.124	-5.253	0.604	1.000		
62.8	791.4	-4.334	-0.498	-12.178	1.400	1.107		
81.2	791.4	0.114	0.013	-3.081	0.354	1.000		
99.6	791.4	0.513	0.059	-2.734	0.314	1.280		
118.0	791.4	2.980	0.343	-4.125	0.474	1.037		
7.6	773.0	0.000	0.000	0.000	0.000	1.000		
26.0	773.0	0.664	0.076	-7.645	0.879	1.000		
44.4	773.0	-1.512	-0.174	-7.738	0.890	1.058		
62.8	773.0	-3.296	-0.379	-8.332	0.958	1.396		
81.2	773.0	-0.992	-0.114	-3.760	0.432	1.041		
99.6	773.0	-0.728	-0.084	-0.582	0.067	1.000		
118.0	773.0	0.670	0.077	-2.490	0.286	1.065		
7.6	754.6	0.007	0.001	-7.255	0.834	1.000		
26.0	754.6	-0.586	-0.067	-7.843	0.902	1.000		
44.4	754.6	-1.352	-0.155	-6.603	0.759	1.393		
62.8	754.6	-2.853	-0.328	-3.875	0.446	1.659		
81.2	754.6	0.753	0.087	-2.992	0.344	1.000		
99.6	754.6	-0.743	-0.085	-2.479	0.285	1.000		
118.0	754.6	-0.357	-0.041	-2.240	0.258	1.000		
7.6	736.2	0.004	0.000	-5.408	0.622	1.000		
26.0	736.2	0.258	0.030	-7.239	0.832	1.000		
44.4	736.2	-1.040	-0.120	-5.545	0.638	1.062		
62.8	736.2	-3.086	-0.355	-4.433	0.510	1.000		
7.6	717.8	0.007	0.001	-7.109	0.818	1.000		
26.0	717.8	0.143	0.016	-7.842	0.902	1.000		
44.4	717.8	-0.015	-0.002	-4.687	0.539	1.000		
62.8	717.8	-0.997	-0.115	-3.817	0.439	1.000		
7.6	699.4	-0.183	-0.021	-6.879	0.791	1.004		
26.0	699.4	-0.554	-0.064	-6.611	0.760	1.000		

Image 44.6		d0h11					noise
location		velocity					
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s		snr
7.6	791.4	0.017	0.002	-7.101	0.817		1.000
26.0	791.4	-0.250	-0.029	-6.832	0.786		1.000
44.4	791.4	-0.384	-0.044	-5.786	0.665		1.337
62.8	791.4	0.150	0.017	-4.999	0.575		1.000
81.2	791.4	-5.267	-0.606	-6.780	0.780		1.030
99.6	791.4	-4.498	-0.517	-3.526	0.405		1.258
7.6	773.0	0.001	0.000	-5.326	0.613		1.000
26.0	773.0	0.453	0.052	-6.538	0.752		1.000
44.4	773.0	-1.141	-0.131	-5.992	0.689		1.000
62.8	773.0	-1.019	-0.117	-3.972	0.457		1.000
99.6	773.0	-4.832	-0.556	-0.049	0.006		1.287
7.6	754.6	0.015	0.002	-9.226	1.061		1.000
26.0	754.6	0.988	0.114	-5.897	0.678		1.000
44.4	754.6	0.104	0.012	-4.150	0.477		1.000
62.8	754.6	2.422	0.279	-2.934	0.337		1.000
7.6	736.2	0.006	0.001	-6.185	0.711		1.000
26.0	736.2	1.167	0.134	-9.486	1.091		1.000
44.4	736.2	0.699	0.080	-6.318	0.727		1.000
62.8	736.2	0.844	0.097	-4.888	0.562		1.000
7.6	717.8	0.025	0.003	-9.996	1.150		1.000
26.0	717.8	-0.087	-0.010	-7.435	0.855		1.000
44.4	717.8	1.638	0.188	-7.849	0.903		1.000
62.8	717.8	1.001	0.115	-4.223	0.486		1.000
7.6	699.4	0.002	0.000	-6.215	0.715		1.000
26.0	699.4	-0.645	-0.074	-6.808	0.783		1.000
44.4	699.4	-1.035	-0.119	-6.095	0.701		1.000
62.8	699.4	0.262	0.030	-5.662	0.651		1.203

Image 44.7		d0h12					noise
location		velocity					
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s		snr
7.6	791.4	0.021	0.002	-8.773	1.009		1.000
26.0	791.4	0.673	0.077	-8.055	0.926		1.043
44.4	791.4	1.005	0.116	-6.016	0.692		1.000
62.8	791.4	0.010	0.001	-5.233	0.602		1.000
7.6	773.0	0.008	0.001	-8.508	0.978		1.000
26.0	773.0	1.383	0.159	-9.873	1.135		1.000
44.4	773.0	0.449	0.052	-6.463	0.743		1.000
62.8	773.0	0.048	0.006	-3.544	0.408		1.000
7.6	754.6	0.004	0.000	-8.782	1.010		1.000
26.0	754.6	0.495	0.057	-8.932	1.027		1.000
44.4	754.6	-0.448	-0.052	-6.954	0.800		1.000
62.8	754.6	-0.360	-0.041	-4.804	0.552		1.000
7.6	736.2	-0.002	0.000	-3.829	0.440		1.000
26.0	736.2	0.689	0.079	-8.321	0.957		1.000
44.4	736.2	0.944	0.109	-7.107	0.817		1.000
62.8	736.2	1.777	0.204	-4.981	0.573		1.000
7.6	717.8	0.011	0.001	-7.322	0.842		1.000
26.0	717.8	1.153	0.133	-7.757	0.892		1.000
44.4	717.8	1.304	0.150	-7.748	0.891		1.000
62.8	717.8	0.408	0.047	-4.755	0.547		1.000
81.2	717.8	-3.511	-0.404	-0.208	0.024		1.145
7.6	699.4	0.000	0.000	-2.826	0.325		1.000
26.0	699.4	-1.839	-0.211	-5.595	0.643		1.000
44.4	699.4	-0.200	-0.023	-5.881	0.676		1.000
62.8	699.4	-0.758	-0.087	-3.741	0.430		1.000
81.2	699.4	-0.058	-0.007	-3.784	0.435		1.000

Image 44.8		d0h13					noise
location		location		velocity		noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.000	0.000	0.000	0.000	1.000	
26.0	791.4	1.019	0.117	-8.274	0.951	1.000	
44.4	791.4	3.044	0.350	-5.878	0.676	1.097	
62.8	791.4	8.297	0.954	-5.112	0.588	1.156	
7.6	773.0	0.025	0.003	-7.091	0.815	1.000	
26.0	773.0	1.888	0.217	-6.922	0.796	1.000	
44.4	773.0	-0.112	-0.013	-4.426	0.509	1.000	
62.8	773.0	4.040	0.465	-4.431	0.510	1.035	
7.6	754.6	2.268	0.261	-9.045	1.040	1.000	
26.0	754.6	7.264	0.835	-8.982	1.033	1.096	
44.4	754.6	1.501	0.173	-5.220	0.600	1.041	
62.8	754.6	-0.917	-0.105	-3.935	0.453	1.000	
7.6	736.2	0.004	0.000	-12.611	1.450	1.000	
26.0	736.2	1.531	0.176	-7.626	0.877	1.230	
44.4	736.2	-1.340	-0.154	-3.884	0.447	1.000	
62.8	736.2	-3.501	-0.403	-4.149	0.477	1.108	
7.6	717.8	-0.004	0.000	-5.563	0.640	1.000	
26.0	717.8	-0.345	-0.040	-5.558	0.639	1.016	
44.4	717.8	-0.554	-0.064	-4.075	0.469	1.000	
62.8	717.8	-1.614	-0.186	-3.588	0.413	1.247	
7.6	699.4	0.001	0.000	-3.561	0.409	1.000	
26.0	699.4	0.662	0.076	-3.391	0.390	1.193	
44.4	699.4	-3.151	-0.362	-0.192	0.022	1.099	
62.8	699.4	-0.236	-0.027	-3.893	0.448	1.000	

Image 44.9		d0h14					noise
location		location		velocity		noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.000	0.000	0.000	0.000	1.000	
44.4	791.4	-1.946	-0.224	-8.294	0.954	1.000	
7.6	773.0	0.000	0.000	0.000	0.000	1.000	
26.0	773.0	-0.601	-0.069	-7.663	0.881	1.000	

Image 44.10		d0h15					noise
location		location		velocity		noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	736.2	0.000	0.000	-7.118	0.819	1.000	
7.6	717.8	0.006	0.001	-6.994	0.804	1.000	
26.0	717.8	0.904	0.104	-6.972	0.802	1.000	
44.4	717.8	0.941	0.108	-5.906	0.679	1.041	
7.6	699.4	0.008	0.001	-7.173	0.825	1.000	
26.0	699.4	1.357	0.156	-6.537	0.752	1.000	
44.4	699.4	1.001	0.115	-4.314	0.496	1.000	

Image 44.11		d0h16					noise
location		location		velocity		noise	
x	y	x	x	y	y		
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.022	0.003	-4.616	0.531	1.000	
26.0	791.4	0.062	0.007	-4.075	0.469	1.000	
7.6	773.0	0.000	0.000	0.000	0.000	1.000	
26.0	773.0	-0.099	-0.011	-3.442	0.396	1.100	
44.4	773.0	-0.144	-0.017	-3.496	0.402	1.000	
7.6	754.6	0.000	0.000	0.000	0.000	1.000	
26.0	754.6	-0.358	-0.041	-7.702	0.886	1.000	
44.4	754.6	-0.434	-0.050	-4.677	0.538	1.239	
7.6	736.2	0.002	0.000	-6.798	0.782	1.000	
26.0	736.2	-0.872	-0.100	-4.960	0.570	1.000	
44.4	736.2	-0.755	-0.087	-3.248	0.373	1.000	
26.0	717.8	-0.398	-0.046	-4.744	0.546	1.094	
44.4	717.8	0.138	0.016	-3.822	0.439	1.000	
7.6	699.4	-0.111	-0.013	-5.051	0.581	1.000	
26.0	699.4	-0.477	-0.055	-5.205	0.599	1.000	
44.4	699.4	-0.233	-0.027	-4.514	0.519	1.526	

Image 44.12		d0h17					noise
x	y	x	x	y	y	noise	
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.541	0.062	-6.675	0.768	1.000	
26.0	791.4	-0.018	-0.002	-5.760	0.662	1.000	
44.4	791.4	-1.191	-0.137	-8.173	0.940	1.000	
7.6	773.0	0.008	0.001	-6.675	0.768	1.000	
26.0	773.0	3.592	0.413	-8.729	1.004	1.200	
44.4	773.0	0.804	0.093	-11.588	1.333	1.000	
7.6	754.6	0.483	0.056	-5.303	0.610	1.000	
26.0	754.6	0.292	0.034	-5.406	0.622	1.000	
44.4	754.6	0.716	0.082	-11.064	1.272	1.000	
7.6	736.2	0.176	0.020	-7.301	0.840	1.000	
26.0	736.2	0.001	0.000	-4.363	0.502	1.000	
44.4	736.2	0.379	0.044	-6.153	0.708	1.000	
26.0	717.8	0.156	0.018	-4.459	0.513	1.000	
44.4	717.8	0.556	0.064	-4.097	0.471	1.000	
7.6	699.4	0.004	0.001	-8.208	0.944	1.000	
26.0	699.4	0.553	0.064	-6.557	0.754	1.024	
44.4	699.4	1.736	0.200	-4.693	0.540	1.000	

Image 44.13		d0h18					noise
x	y	x	x	y	y	noise	
mm	mm	p/p	m/s	p/p	m/s	snr	
7.6	791.4	0.014	0.002	-10.472	1.204	1.000	
26.0	791.4	-0.301	-0.035	-7.224	0.831	1.000	
44.4	791.4	1.004	0.115	-5.135	0.590	1.000	
62.8	791.4	-0.377	-0.043	-1.107	0.127	1.000	
7.6	773.0	0.019	0.002	-5.742	0.660	1.000	
26.0	773.0	1.557	0.179	-6.319	0.727	1.000	
44.4	773.0	0.036	0.004	-5.208	0.599	1.000	
62.8	773.0	0.544	0.063	-4.107	0.472	1.000	
7.6	754.6	0.016	0.002	-7.599	0.874	1.000	
26.0	754.6	2.163	0.249	-7.792	0.896	1.000	
44.4	754.6	2.248	0.258	-6.349	0.730	1.000	
62.8	754.6	0.009	0.001	-4.316	0.496	1.000	
7.6	736.2	0.009	0.001	-6.714	0.772	1.000	
26.0	736.2	2.139	0.246	-7.690	0.884	1.000	
44.4	736.2	3.691	0.424	-3.983	0.458	1.095	
7.6	717.8	0.003	0.000	-7.899	0.908	1.000	
26.0	717.8	1.457	0.168	-6.875	0.791	1.024	
44.4	717.8	2.465	0.283	-6.084	0.700	1.000	
62.8	717.8	1.823	0.210	-4.646	0.534	1.000	
7.6	699.4	-0.005	-0.001	-6.257	0.719	1.000	
26.0	699.4	0.243	0.028	-7.088	0.815	1.000	
44.4	699.4	-1.067	-0.123	-4.495	0.517	1.000	
62.8	699.4	0.515	0.059	-3.369	0.387	1.000	

## Image 44.14

## d0h19

x mm	y mm	x p/p	x m/s	y p/p	y m/s	noise snr
7.6	754.6	0.004	0.000	-6.425	0.739	1.000
26.0	754.6	-1.156	-0.133	-4.981	0.573	1.122
44.4	754.6	-0.694	-0.080	-4.350	0.500	1.000
62.8	754.6	-1.805	-0.208	-3.692	0.425	1.000
7.6	736.2	0.000	0.000	-6.080	0.699	1.000
26.0	736.2	-0.071	-0.008	-3.077	0.354	1.000
62.8	736.2	-1.272	-0.146	-3.895	0.448	1.220
7.6	717.8	-0.363	-0.042	-4.715	0.542	1.000
26.0	717.8	-0.588	-0.068	-4.145	0.477	1.113
26.0	699.4	-1.082	-0.124	-4.004	0.460	1.000
7.6	791.4	0.000	0.000	-5.052	0.581	1.856
26.0	791.4	0.684	0.079	-6.293	0.724	1.000
44.4	791.4	1.179	0.136	-6.004	0.690	1.000
62.8	791.4	0.612	0.070	-4.006	0.461	1.000
7.6	773.0	0.004	0.000	-5.623	0.647	1.000
26.0	773.0	1.686	0.194	-5.961	0.686	1.041
44.4	773.0	2.864	0.329	-7.492	0.862	1.140
62.8	773.0	1.199	0.138	-4.610	0.530	1.000
7.6	754.6	0.004	0.000	-7.830	0.900	1.000
26.0	754.6	1.069	0.123	-9.101	1.047	1.000
44.4	754.6	2.311	0.266	-6.834	0.786	1.000
62.8	754.6	0.016	0.002	-4.940	0.568	1.000
7.6	736.2	0.007	0.001	-4.983	0.573	1.000
26.0	736.2	0.631	0.073	-6.936	0.798	1.042
44.4	736.2	0.728	0.084	-6.010	0.691	1.069
62.8	736.2	1.039	0.119	-5.303	0.610	1.000
7.6	717.8	0.001	0.000	-5.657	0.651	1.000
26.0	717.8	-0.045	-0.005	-5.315	0.611	1.154
44.4	717.8	-0.107	-0.012	-5.031	0.579	1.000
62.8	717.8	2.316	0.266	-4.408	0.507	1.000
7.6	699.4	0.000	0.000	-10.526	1.211	1.000
26.0	699.4	-0.071	-0.008	-3.127	0.360	1.000
44.4	699.4	-0.122	-0.014	-4.183	0.481	1.000
62.8	699.4	-1.288	-0.148	-3.798	0.437	1.000

## Image 44.15

## d0h20

x mm	y mm	x p/p	x m/s	y p/p	y m/s	noise snr
7.6	791.4	0.023	0.003	-6.048	0.695	1.000
26.0	791.4	0.929	0.107	-5.907	0.679	1.000
44.4	791.4	2.926	0.336	-6.751	0.776	1.167
62.8	791.4	0.781	0.090	-2.147	0.247	1.000
7.6	773.0	0.012	0.001	-5.507	0.633	1.000
26.0	773.0	0.593	0.068	-6.021	0.692	1.000
44.4	773.0	0.510	0.059	-5.055	0.581	1.000
62.8	773.0	-0.466	-0.054	-4.066	0.468	1.158



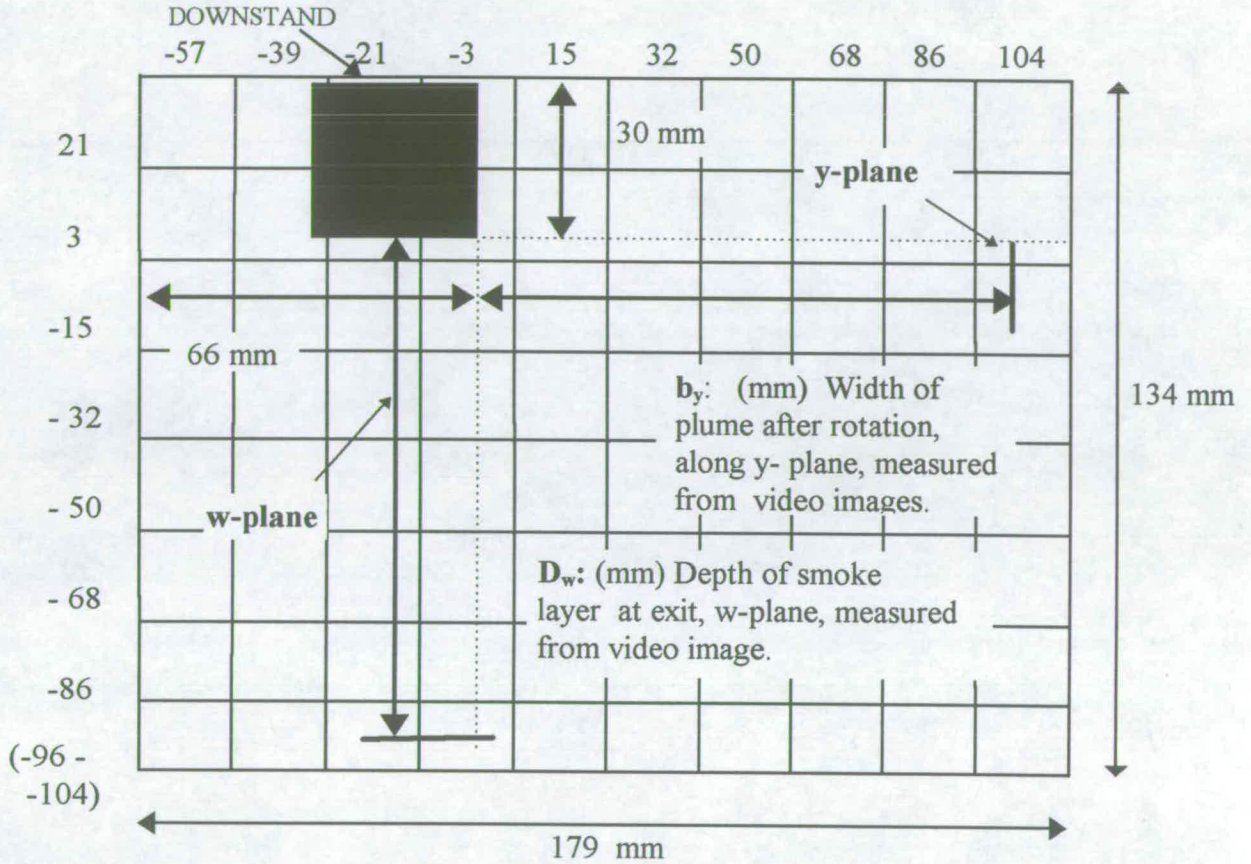




# IMAGES 49 TO 56:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

660 mm long compartment; 100 mm downstand;  
no balcony; 4.61 kw heat source

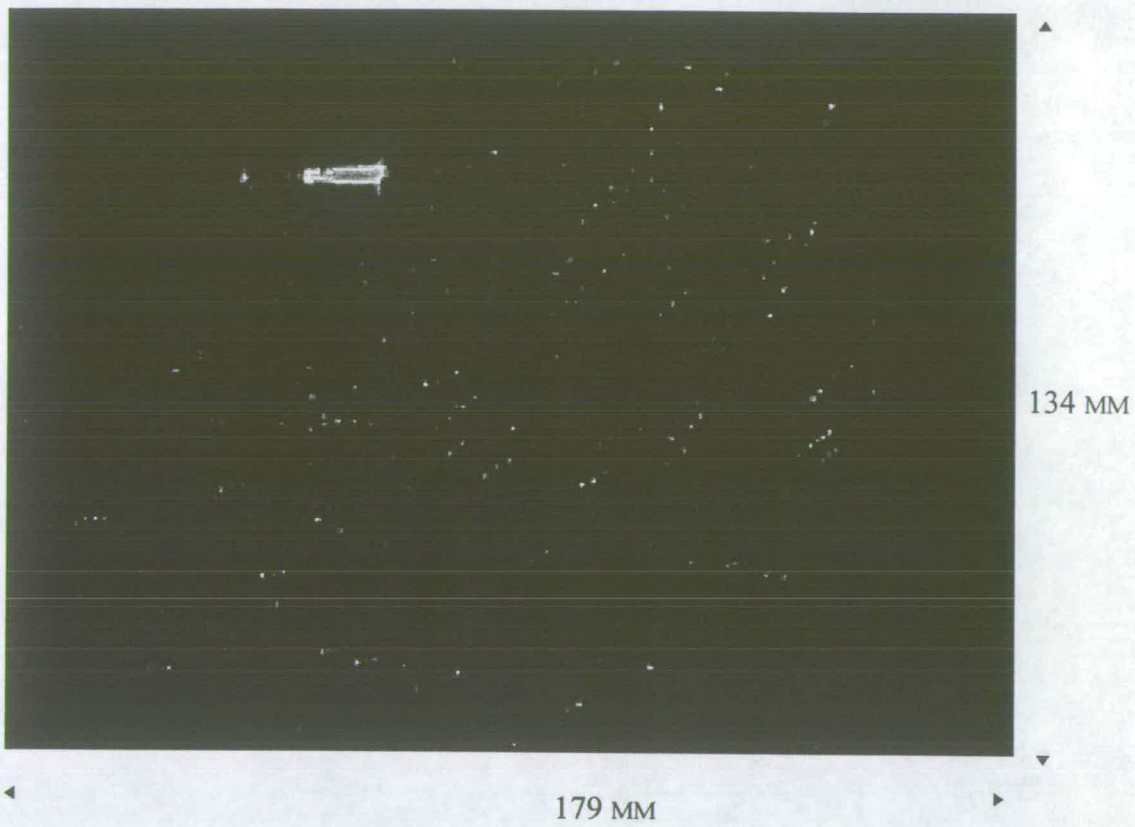


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 49 - 56

Interrogation areas 17.9 mm x 17.9 mm.

SCALE: 1 PIXEL = 0.558 MM

File references: d100w, d100w01, d100w03, d100w04, d100w05, d100w06, d100w07, d100w09



ORIGINAL IMAGE

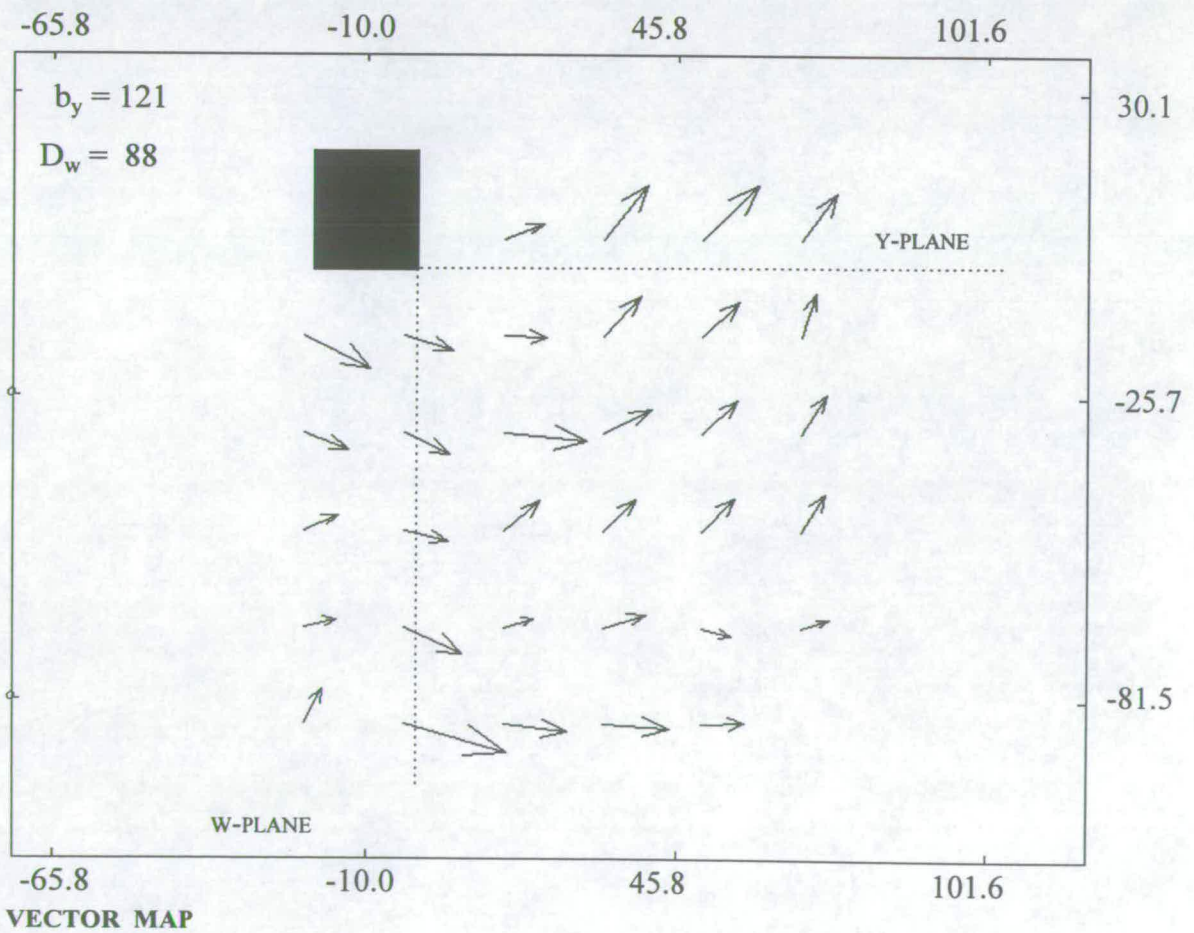
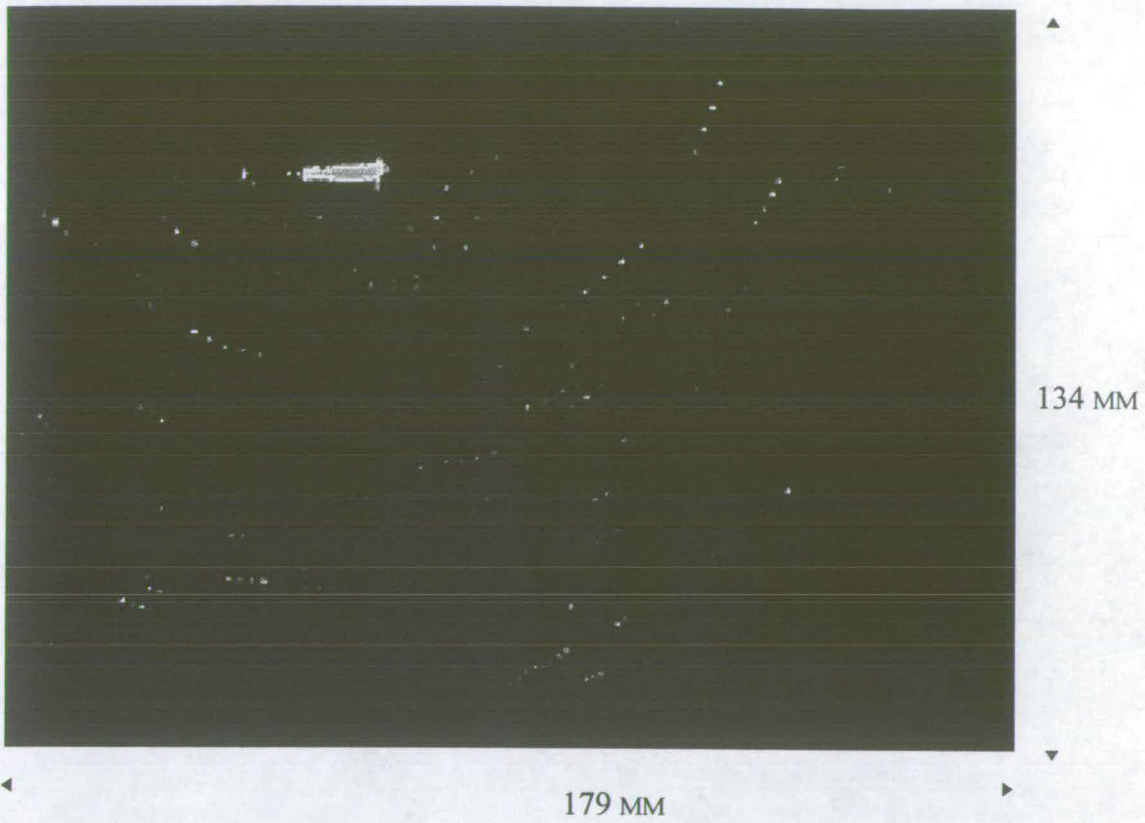
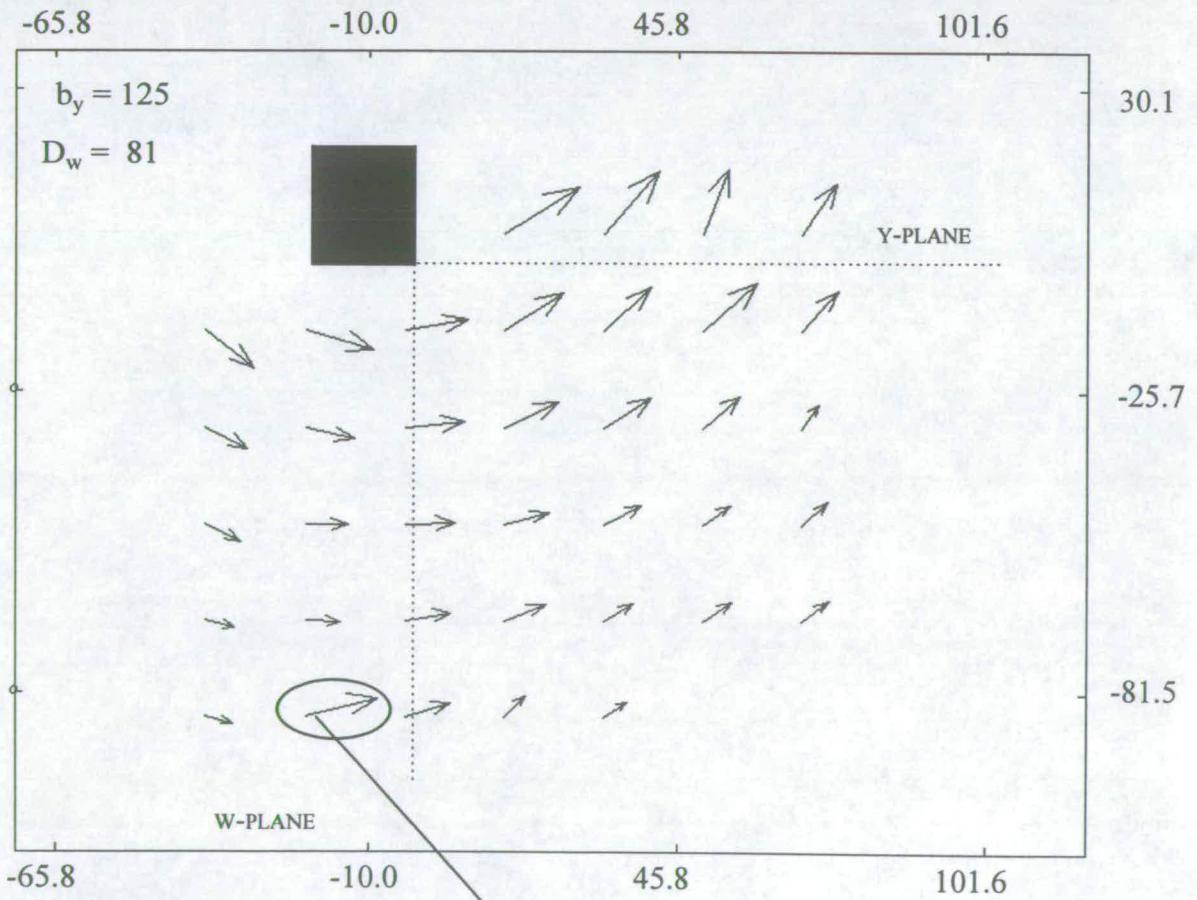


IMAGE NO. 49

(REF.: D100W)



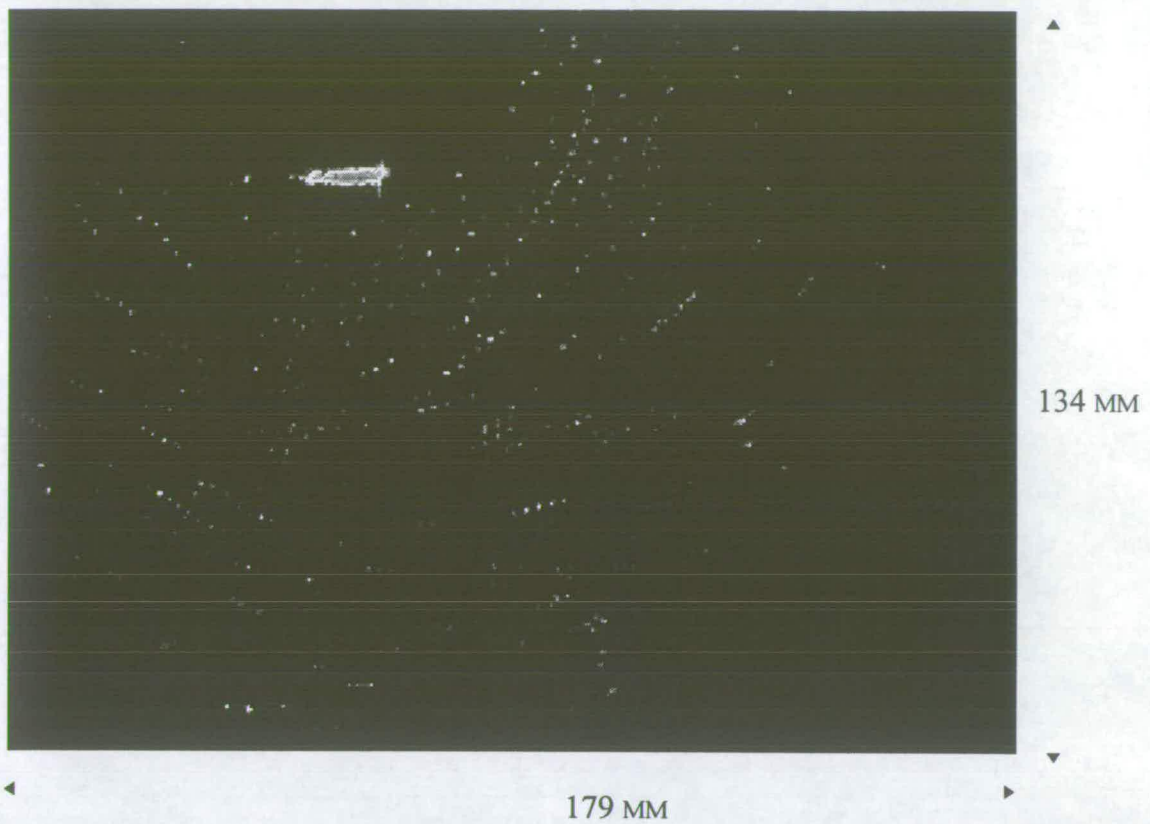
ORIGINAL IMAGE



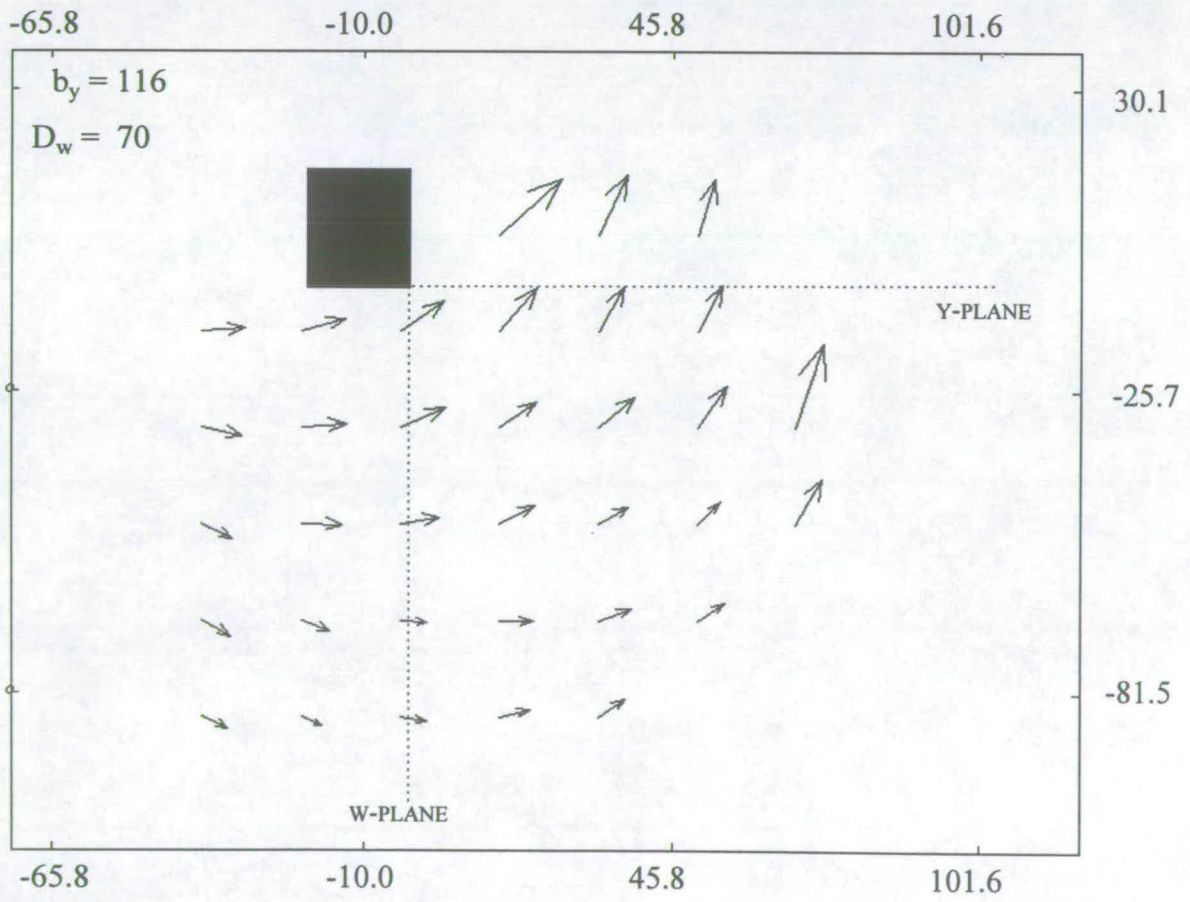
VECTOR MAP

IMAGE No. 50

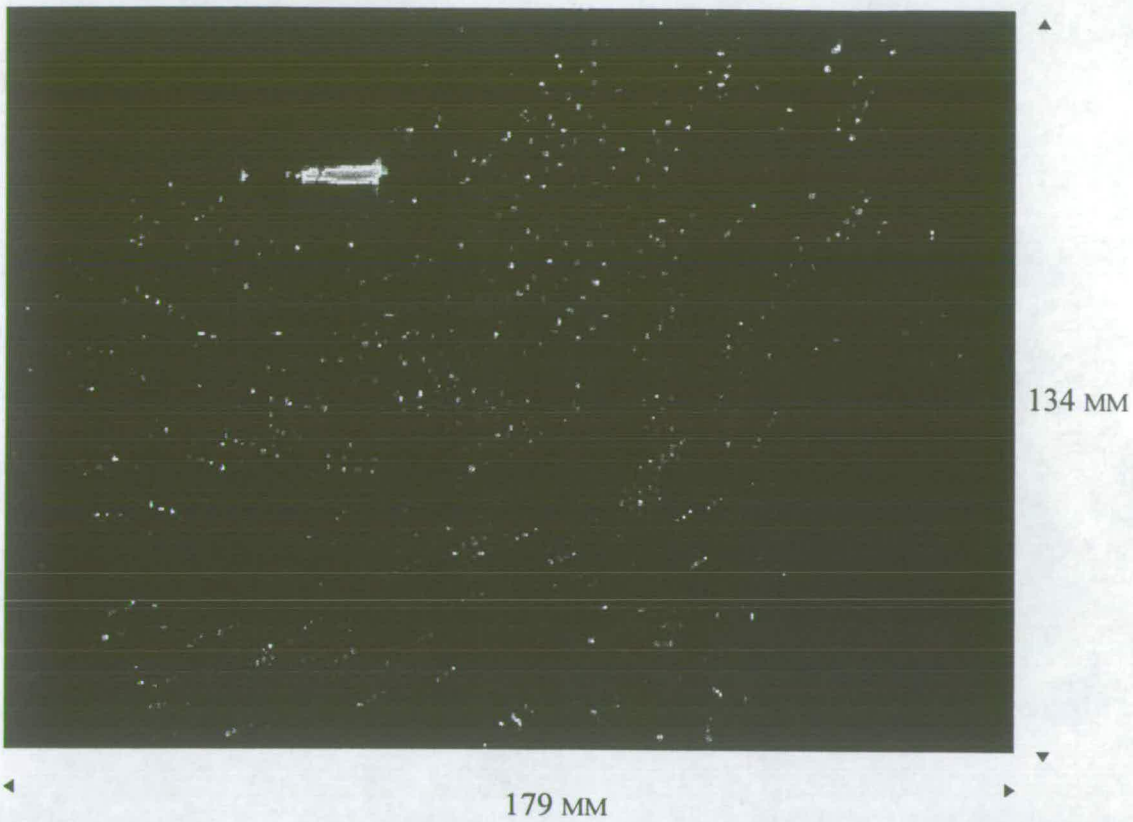
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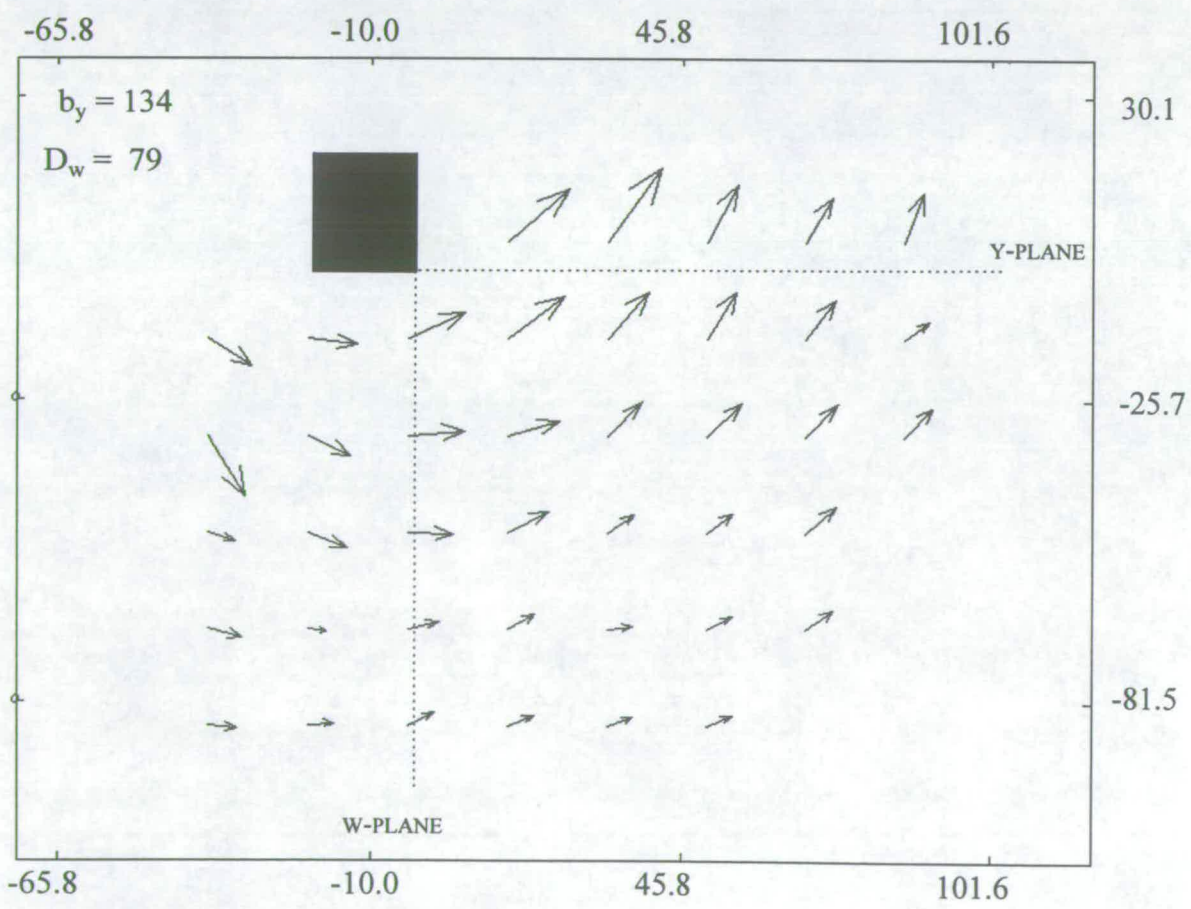
ORIGINAL IMAGE



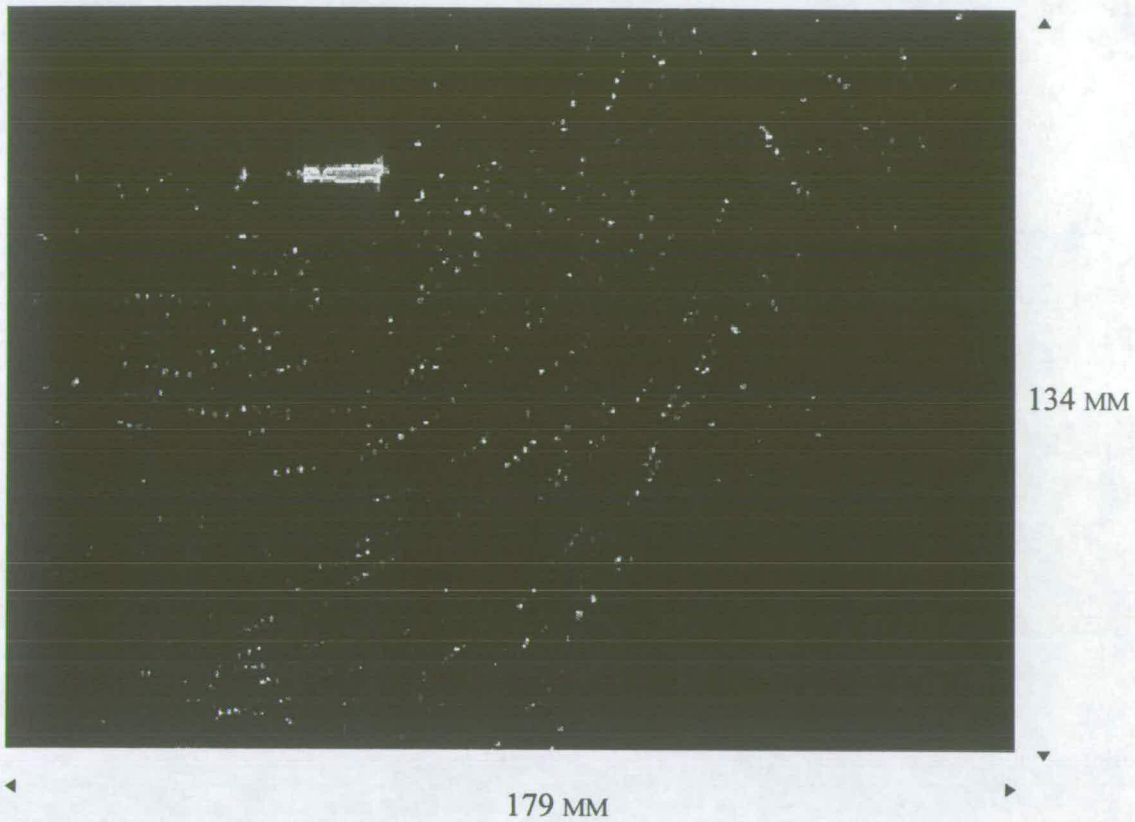
VECTOR MAP



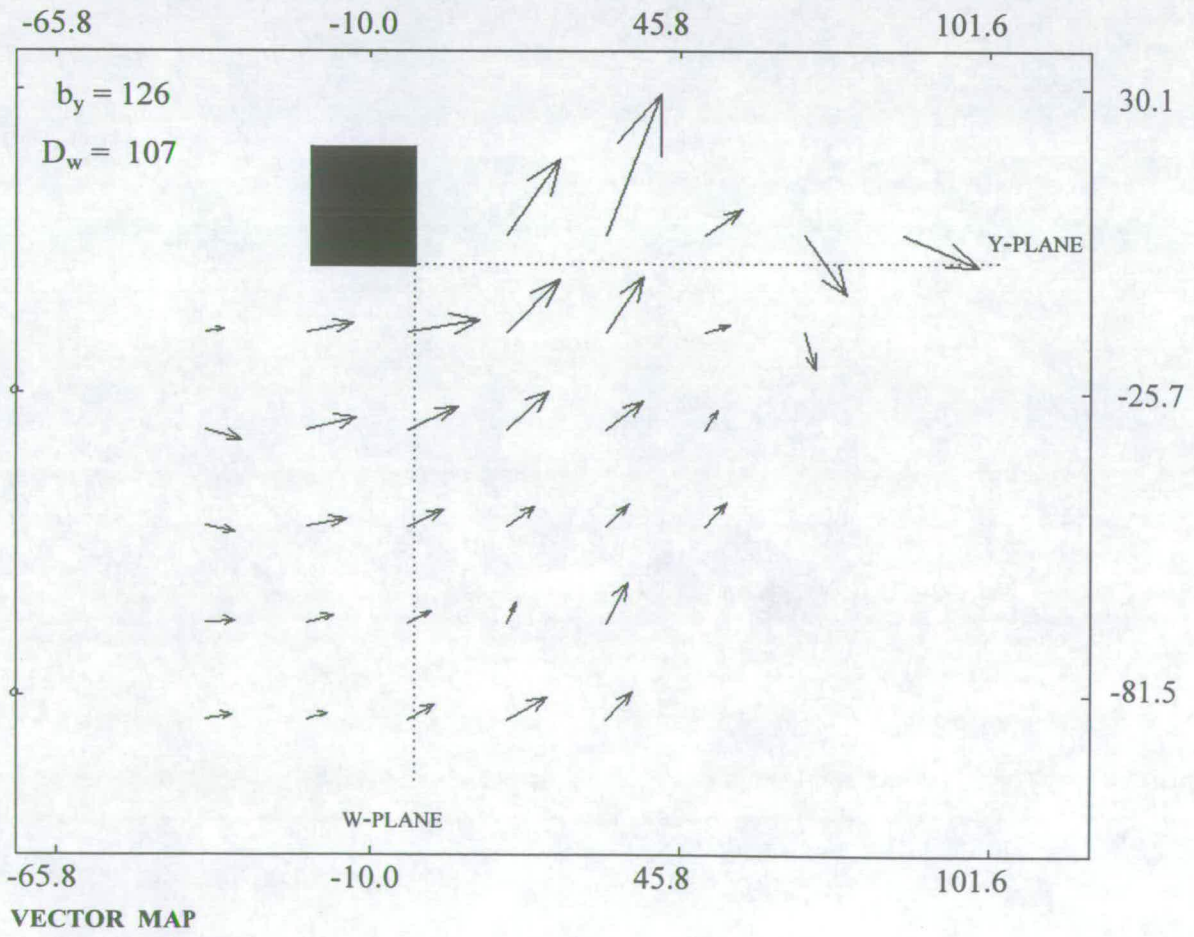
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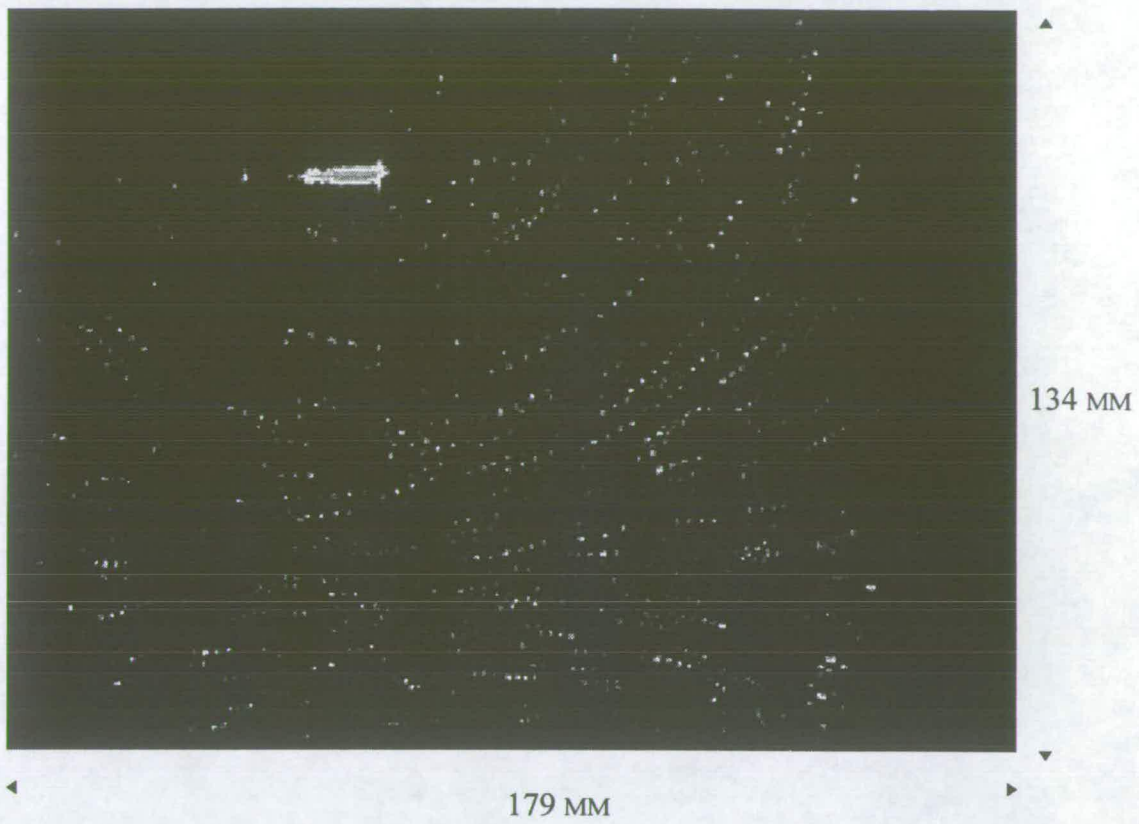


VECTOR MAP

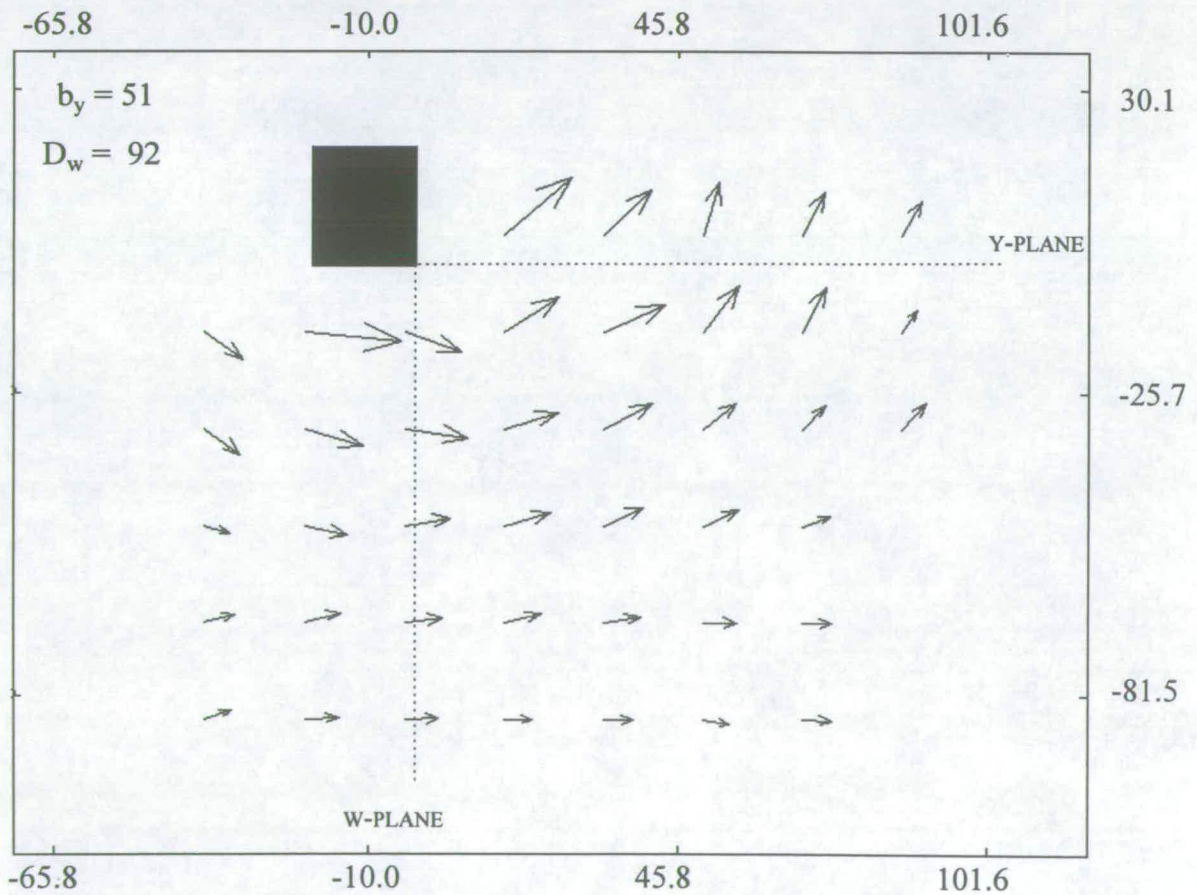


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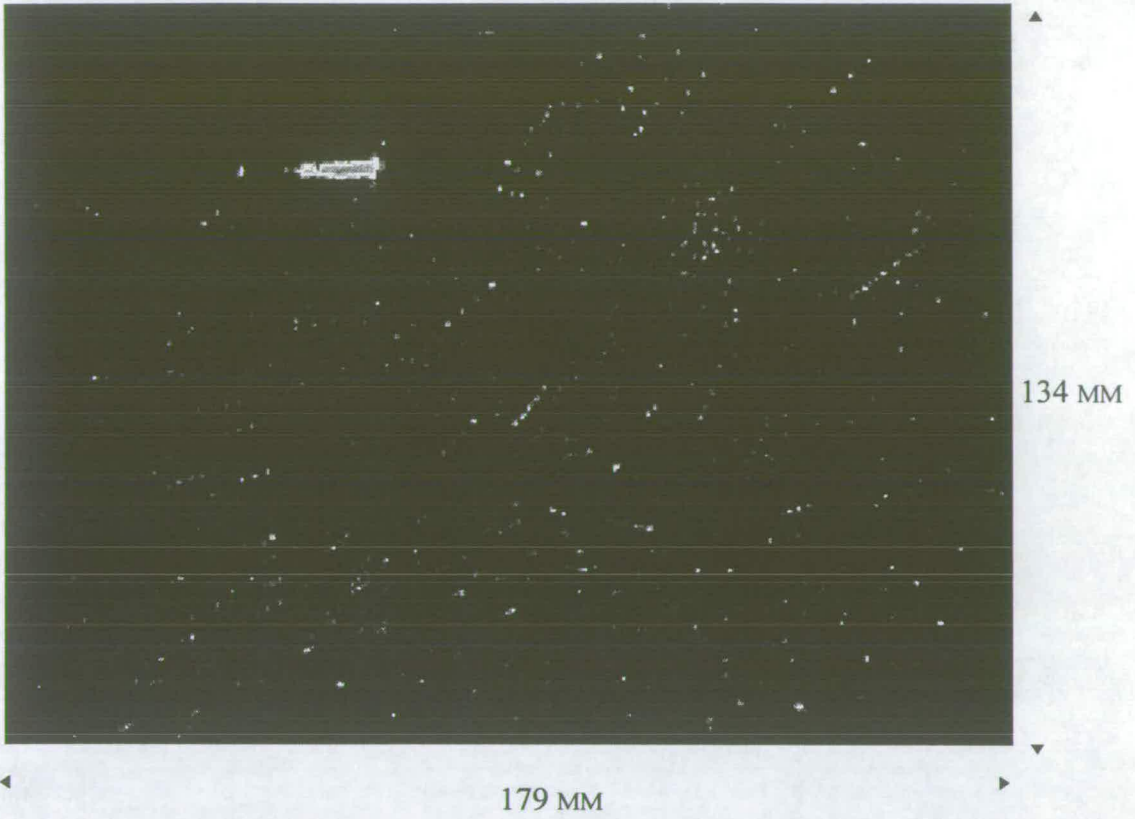




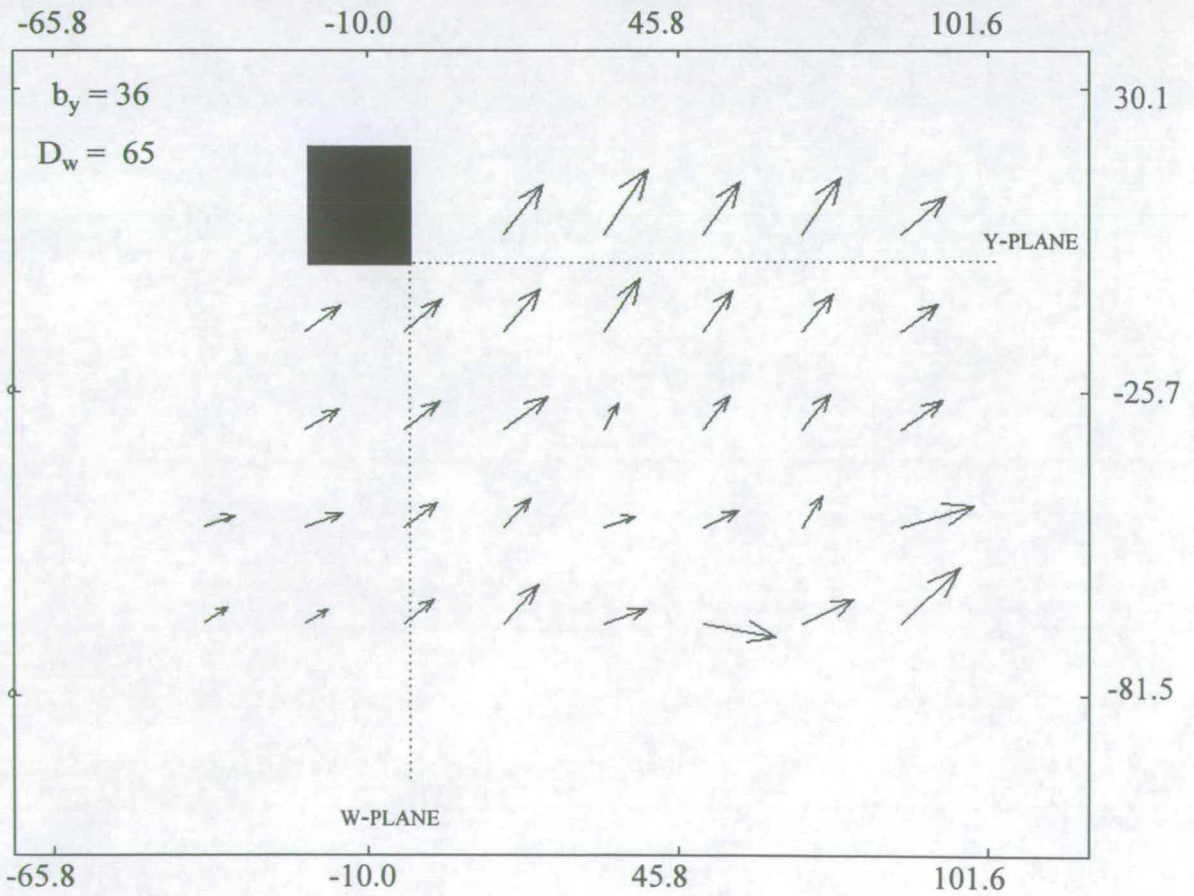
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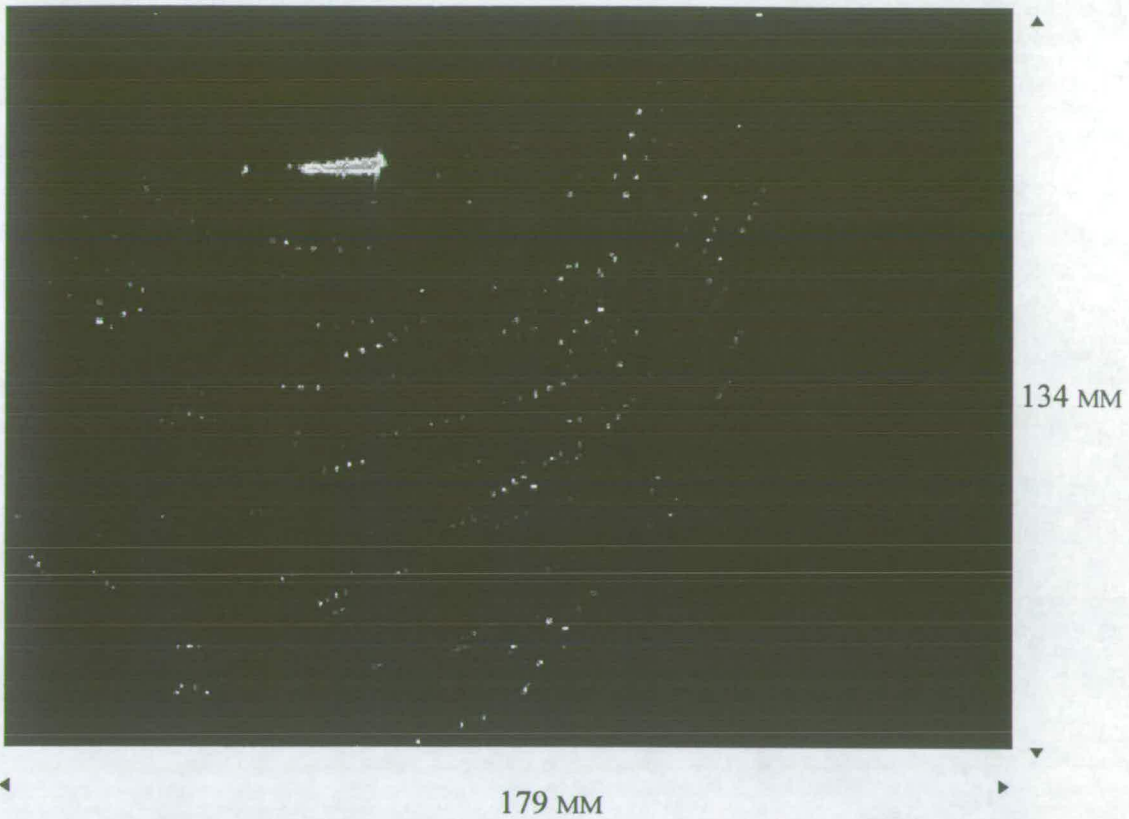
VECTOR MAP



ORIGINAL IMAGE



VECTOR MAP



ORIGINAL IMAGE

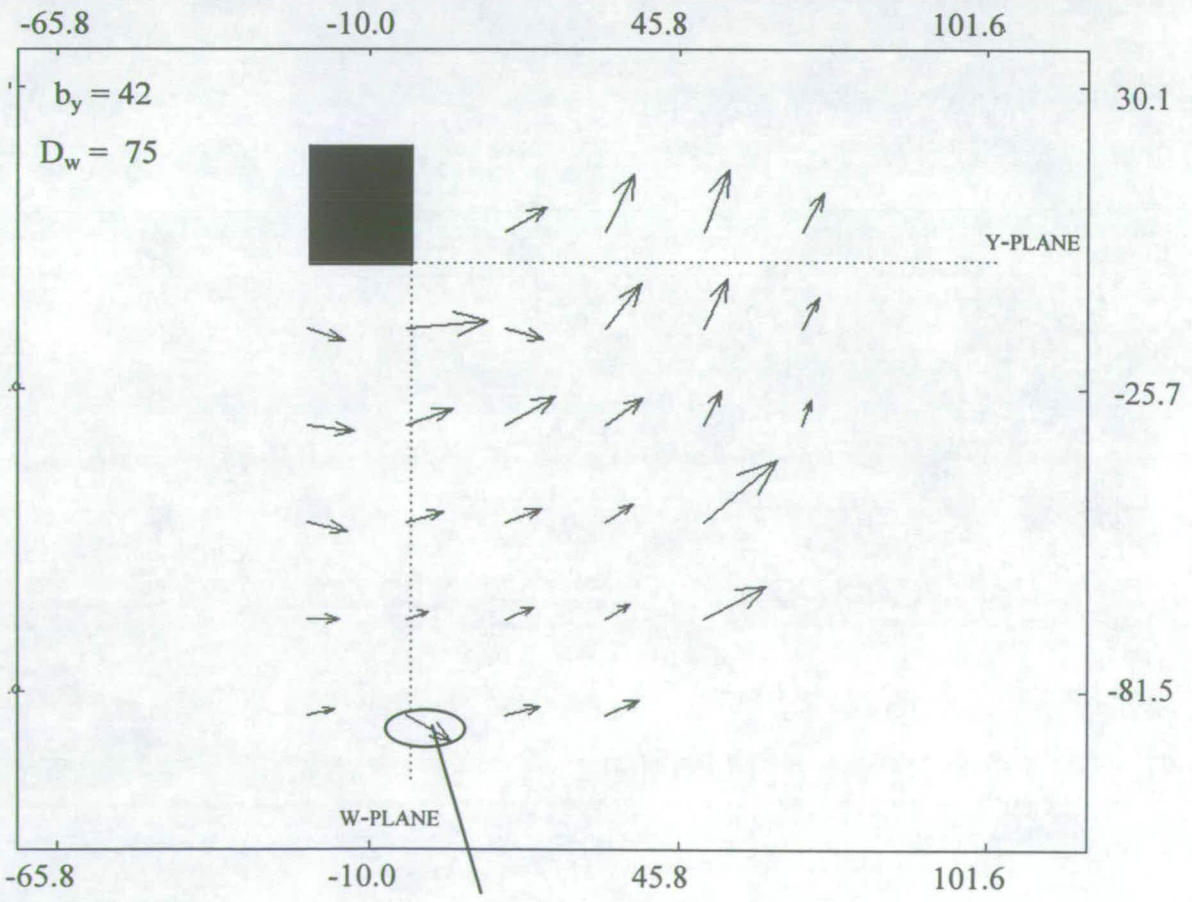


image 49 d100w

location x mm	location y mm	velocity x pix/per	velocity x m/s	velocity y pix/per	velocity y m/s	noise snr
14.6	3.3	4.199	0.469	-1.612	0.180	1.353
32.4	3.3	4.678	0.522	-5.947	0.664	1.201
50.3	3.3	6.017	0.671	-5.945	0.663	1.083
68.1	3.3	3.807	0.425	-5.095	0.569	1.000
-21.2	-14.5	7.159	0.799	3.669	-0.409	1.170
-3.3	-14.5	5.327	0.594	1.668	-0.186	1.000
14.6	-14.5	4.641	0.518	0.264	-0.029	1.000
32.4	-14.5	4.039	0.451	-4.426	0.494	1.159
50.3	-14.5	4.033	0.450	-3.731	0.416	1.026
68.1	-14.5	1.519	0.170	-4.832	0.539	1.000
-21.2	-32.4	4.695	0.524	1.959	-0.219	1.000
-3.3	-32.4	4.949	0.552	2.375	-0.265	1.005
14.6	-32.4	8.963	1.000	0.978	-0.109	1.125
32.4	-32.4	5.189	0.579	-2.566	0.286	1.000
50.3	-32.4	3.996	0.446	-3.582	0.400	1.155
68.1	-32.4	2.774	0.310	-4.315	0.482	2.430
-21.2	-50.3	3.688	0.412	-1.664	0.186	1.339
-3.3	-50.3	4.698	0.524	1.315	-0.147	1.037
14.6	-50.3	3.950	0.441	-3.179	0.355	1.544
32.4	-50.3	3.610	0.403	-3.473	0.388	1.302
50.3	-50.3	3.650	0.407	-3.585	0.400	1.131
68.1	-50.3	2.620	0.292	-4.125	0.460	1.043
-21.2	-68.1	3.653	0.408	-0.828	0.092	1.285
-3.3	-68.1	6.299	0.703	2.872	-0.320	1.092
14.6	-68.1	3.301	0.368	-0.866	0.097	1.087
32.4	-68.1	4.752	0.530	-1.490	0.166	1.030
50.3	-68.1	3.170	0.354	0.947	-0.106	1.802
68.1	-68.1	3.027	0.338	-0.907	0.101	1.010
-21.2	-86.0	2.158	0.241	-3.789	0.423	1.000
-3.3	-86.0	5.740	0.641	3.253	-0.363	1.234
14.6	-86.0	2.364	0.264	0.907	-0.101	1.863
32.4	-86.0	7.269	0.811	0.521	-0.058	1.000
50.3	-86.0	4.763	0.532	-0.021	0.002	1.040

image 50 d100w01

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
14.6	3.3	8.125	0.907	-5.136	0.573	2.962
32.4	3.3	5.997	0.669	-6.870	0.767	1.345
50.3	3.3	2.783	0.311	-7.164	0.800	2.049
68.1	3.3	3.809	0.425	-5.597	0.625	1.000
-39.0	-14.5	5.033	0.562	4.196	-0.468	2.124
-21.2	-14.5	7.237	0.808	2.194	-0.245	1.479
-3.3	-14.5	6.692	0.747	-1.070	0.119	1.124
14.6	-14.5	6.355	0.709	-4.080	0.455	1.000
32.4	-14.5	5.118	0.571	-4.674	0.522	1.127
50.3	-14.5	5.959	0.665	-5.287	0.590	1.288
68.1	-14.5	3.855	0.430	-4.390	0.490	1.060
-39.0	-32.4	4.401	0.491	2.443	-0.273	1.549
-21.2	-32.4	5.323	0.594	1.332	-0.149	1.271
-3.3	-32.4	6.455	0.720	-0.599	0.067	1.340
14.6	-32.4	5.935	0.662	-2.734	0.305	1.037
32.4	-32.4	5.143	0.574	-3.198	0.357	1.247
50.3	-32.4	4.124	0.460	-3.457	0.386	1.111
68.1	-32.4	1.931	0.216	-2.652	0.296	1.000
-39.0	-50.3	3.682	0.411	2.049	-0.229	1.661
-21.2	-50.3	4.632	0.517	0.094	-0.010	1.433
-3.3	-50.3	5.482	0.612	-0.036	0.004	1.365
14.6	-50.3	4.958	0.553	-1.260	0.141	1.633
32.4	-50.3	4.139	0.462	-2.094	0.234	1.217
50.3	-50.3	3.029	0.338	-2.159	0.241	1.238
68.1	-50.3	2.893	0.323	-2.595	0.290	1.022
-39.0	-68.1	3.146	0.351	0.967	-0.108	1.471
-21.2	-68.1	3.734	0.417	0.269	-0.030	1.496
-3.3	-68.1	4.993	0.557	-0.769	0.086	1.028
14.6	-68.1	4.541	0.507	-1.792	0.200	1.359
32.4	-68.1	3.250	0.363	-1.890	0.211	1.108
50.3	-68.1	3.256	0.363	-2.044	0.228	1.367
68.1	-68.1	3.019	0.337	-2.289	0.255	1.355
-39.0	-86.0	2.955	0.330	0.889	-0.099	1.307
-21.2	-86.0	7.828	0.874	-1.996	0.223	1.025
-3.3	-86.0	4.875	0.544	-1.485	0.166	1.044
14.6	-86.0	2.448	0.273	-2.322	0.259	1.000
32.4	-86.0	2.635	0.294	-1.643	0.183	1.010

image 51 d100w03

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
14.6	3.3	6.771	0.756	-6.105	0.681	1.020
32.4	3.3	3.036	0.339	-6.604	0.737	1.332
50.3	3.3	1.939	0.216	-6.007	0.670	1.000
-39.0	-14.5	4.514	0.504	-0.190	0.021	1.328
-21.2	-14.5	4.752	0.530	-1.273	0.142	1.052
-3.3	-14.5	4.814	0.537	-3.240	0.362	1.308
14.6	-14.5	4.132	0.461	-4.742	0.529	1.344
32.4	-14.5	2.770	0.309	-4.861	0.542	1.241
50.3	-14.5	2.827	0.315	-5.111	0.570	1.208
-39.0	-32.4	4.230	0.472	1.043	-0.116	1.604
-21.2	-32.4	4.901	0.547	-0.180	0.020	1.393
-3.3	-32.4	4.901	0.547	-2.045	0.228	1.529
14.6	-32.4	4.129	0.461	-2.730	0.305	1.517
32.4	-32.4	3.987	0.445	-3.319	0.370	1.634
50.3	-32.4	3.173	0.354	-4.598	0.513	1.000
68.1	-32.4	3.066	0.342	-9.194	1.026	1.016
-39.0	-50.3	3.297	0.368	1.714	-0.191	1.614
-21.2	-50.3	4.409	0.492	0.208	-0.023	1.463
-3.3	-50.3	4.204	0.469	-0.622	0.069	1.207
14.6	-50.3	3.968	0.443	-1.888	0.211	1.742
32.4	-50.3	3.206	0.358	-1.826	0.204	1.561
50.3	-50.3	2.628	0.293	-2.375	0.265	1.343
68.1	-50.3	2.948	0.329	-4.876	0.544	1.787
-39.0	-68.1	3.096	0.346	1.847	-0.206	1.642
-21.2	-68.1	3.028	0.338	1.288	-0.144	1.542
-3.3	-68.1	2.880	0.321	0.272	-0.030	2.027
14.6	-68.1	3.698	0.413	0.165	-0.018	1.199
32.4	-68.1	3.594	0.401	-1.198	0.134	1.517
50.3	-68.1	3.107	0.347	-1.942	0.217	1.128
-39.0	-86.0	2.773	0.309	1.427	-0.159	1.177
-21.2	-86.0	2.255	0.252	1.134	-0.127	1.405
-3.3	-86.0	2.872	0.321	0.650	-0.073	1.039
14.6	-86.0	3.334	0.372	-0.812	0.091	1.077
32.4	-86.0	2.968	0.331	-1.950	0.218	1.385

image 52 d100w05

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
14.6	3.3	6.546	0.731	-5.826	0.650	1.200
32.4	3.3	5.715	0.638	-8.083	0.902	1.007
50.3	3.3	3.339	0.373	-6.221	0.694	1.494
68.1	3.3	2.891	0.323	-4.898	0.547	1.002
86.0	3.3	2.019	0.225	-5.396	0.602	1.000
-39.0	-14.5	4.552	0.508	3.041	-0.339	1.000
-21.2	-14.5	5.171	0.577	0.816	-0.091	1.068
-3.3	-14.5	6.026	0.673	-2.743	0.306	1.020
14.6	-14.5	6.028	0.673	-4.629	0.517	1.197
32.4	-14.5	4.362	0.487	-5.093	0.568	1.290
50.3	-14.5	3.208	0.358	-5.140	0.574	1.651
68.1	-14.5	3.242	0.362	-4.246	0.474	1.153
86.0	-14.5	2.738	0.306	-1.981	0.221	1.250
-39.0	-32.4	3.953	0.441	6.681	-0.746	1.211
-21.2	-32.4	4.567	0.510	2.223	-0.248	1.011
-3.3	-32.4	6.110	0.682	-0.422	0.047	1.155
14.6	-32.4	5.654	0.631	-1.600	0.179	1.322
32.4	-32.4	3.768	0.420	-3.756	0.419	1.530
50.3	-32.4	3.982	0.444	-3.648	0.407	1.362
68.1	-32.4	3.551	0.396	-3.501	0.391	1.030
86.0	-32.4	3.146	0.351	-3.162	0.353	1.118
-39.0	-50.3	2.893	0.323	1.009	-0.113	1.247
-21.2	-50.3	4.215	0.470	1.780	-0.199	1.639
-3.3	-50.3	4.919	0.549	0.294	-0.033	1.242
14.6	-50.3	4.410	0.492	-2.294	0.256	1.632
32.4	-50.3	2.972	0.332	-1.989	0.222	1.228
50.3	-50.3	2.925	0.326	-2.106	0.235	1.634
68.1	-50.3	3.345	0.373	-2.971	0.332	1.123
-39.0	-68.1	3.615	0.403	1.144	-0.128	1.406
-21.2	-68.1	2.160	0.241	0.434	-0.048	1.050
-3.3	-68.1	3.346	0.373	-0.712	0.079	1.255
14.6	-68.1	2.979	0.332	-1.532	0.171	1.829
32.4	-68.1	2.713	0.303	-0.256	0.029	1.000
50.3	-68.1	2.910	0.325	-1.452	0.162	1.334
68.1	-68.1	3.095	0.345	-2.161	0.241	1.009
-39.0	-86.0	3.031	0.338	0.415	-0.046	1.137
-21.2	-86.0	2.869	0.320	-0.163	0.018	1.000
-3.3	-86.0	2.863	0.319	-1.353	0.151	1.840
14.6	-86.0	2.867	0.320	-1.142	0.127	1.323
32.4	-86.0	2.833	0.316	-0.930	0.104	1.448
50.3	-86.0	2.848	0.318	-1.084	0.121	1.217

image 53 d100w06

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			snr
mm	mm	pix/per	m/s	pix/per	m/s			
14.6	3.3	5.784	0.646	-8.305	0.927			1.089
32.4	3.3	5.891	0.657	-15.446	1.724			1.007
50.3	3.3	4.016	0.448	-2.690	0.300			1.076
68.1	3.3	4.636	0.517	6.629	-0.740			1.018
86.0	3.3	8.209	0.916	3.556	-0.397			1.132
-39.0	-14.5	1.844	0.206	-0.242	0.027			1.109
-21.2	-14.5	4.870	0.543	-0.870	0.097			1.212
-3.3	-14.5	7.744	0.864	-1.291	0.144			1.009
14.6	-14.5	5.733	0.640	-5.741	0.641			1.235
32.4	-14.5	4.073	0.455	-6.135	0.685			1.568
50.3	-14.5	2.727	0.304	-0.682	0.076			1.176
68.1	-14.5	1.193	0.133	4.025	-0.449			1.000
-39.0	-32.4	3.761	0.420	1.208	-0.135			1.521
-21.2	-32.4	5.263	0.587	-1.285	0.143			1.443
-3.3	-32.4	5.428	0.606	-2.472	0.276			1.029
14.6	-32.4	4.576	0.511	-4.135	0.461			1.238
32.4	-32.4	4.080	0.455	-3.076	0.343			1.638
50.3	-32.4	1.491	0.166	-2.084	0.233			1.000
-39.0	-50.3	3.129	0.349	0.821	-0.092			1.915
-21.2	-50.3	4.234	0.473	-0.714	0.080			1.699
-3.3	-50.3	3.996	0.446	-1.750	0.195			1.779
14.6	-50.3	3.159	0.353	-2.132	0.238			1.628
32.4	-50.3	2.549	0.284	-2.412	0.269			1.776
50.3	-50.3	2.410	0.269	-2.622	0.293			1.157
-39.0	-68.1	3.107	0.347	-0.129	0.014			1.009
-21.2	-68.1	2.868	0.320	-0.793	0.088			1.003
-3.3	-68.1	2.535	0.283	-1.193	0.133			1.486
14.6	-68.1	1.117	0.125	-2.178	0.243			1.000
32.4	-68.1	2.427	0.271	-4.482	0.500			1.000
-39.0	-86.0	2.750	0.307	-0.437	0.049			1.108
-21.2	-86.0	2.272	0.254	-0.613	0.068			1.609
-3.3	-86.0	2.878	0.321	-1.516	0.169			1.000
14.6	-86.0	4.446	0.496	-2.423	0.270			1.000
32.4	-86.0	2.990	0.334	-3.098	0.346			1.414

image 54 d100w06

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
14.6	3.3	7.300	0.815	-6.313	0.705	1.358
32.4	3.3	5.124	0.572	-4.859	0.542	1.015
50.3	3.3	1.755	0.196	-5.681	0.634	1.285
68.1	3.3	2.394	0.267	-4.705	0.525	1.000
86.0	3.3	2.195	0.245	-3.830	0.427	1.000
-39.0	-14.5	4.145	0.463	3.022	-0.337	1.408
-21.2	-14.5	10.316	1.151	1.050	-0.117	1.179
-3.3	-14.5	6.025	0.672	2.172	-0.242	1.225
14.6	-14.5	5.884	0.657	-3.805	0.425	1.376
32.4	-14.5	6.502	0.726	-2.967	0.331	1.322
50.3	-14.5	3.939	0.440	-5.033	0.562	1.138
68.1	-14.5	2.595	0.290	-4.890	0.546	1.277
86.0	-14.5	1.798	0.201	-2.371	0.265	1.115
-39.0	-32.4	3.816	0.426	2.841	-0.317	1.538
-21.2	-32.4	6.197	0.692	1.845	-0.206	1.285
-3.3	-32.4	6.721	0.750	1.076	-0.120	1.866
14.6	-32.4	5.835	0.651	-1.774	0.198	1.626
32.4	-32.4	5.317	0.593	-2.802	0.313	1.490
50.3	-32.4	3.571	0.398	-2.762	0.308	1.507
68.1	-32.4	2.570	0.287	-2.597	0.290	1.327
86.0	-32.4	2.806	0.313	-2.874	0.321	1.000
-39.0	-50.3	2.765	0.309	0.852	-0.095	1.362
-21.2	-50.3	4.662	0.520	1.063	-0.119	1.487
-3.3	-50.3	4.938	0.551	-0.824	0.092	1.488
14.6	-50.3	5.138	0.573	-1.440	0.161	1.530
32.4	-50.3	4.331	0.483	-1.993	0.222	1.486
50.3	-50.3	3.883	0.433	-1.800	0.201	1.823
68.1	-50.3	3.102	0.346	-1.111	0.124	1.793
-39.0	-68.1	3.310	0.369	-0.815	0.091	1.243
-21.2	-68.1	3.862	0.431	-0.986	0.110	1.412
-3.3	-68.1	4.054	0.452	-0.439	0.049	1.489
14.6	-68.1	4.029	0.450	-0.863	0.096	1.744
32.4	-68.1	4.029	0.450	-0.614	0.068	1.664
50.3	-68.1	3.812	0.425	0.107	-0.012	1.512
68.1	-68.1	3.246	0.362	0.078	-0.009	1.995
-39.0	-86.0	2.969	0.331	-0.888	0.099	1.536
-21.2	-86.0	3.761	0.420	-0.154	0.017	1.740
-3.3	-86.0	3.641	0.406	-0.048	0.005	1.288
14.6	-86.0	3.093	0.345	0.011	-0.001	1.899
32.4	-86.0	3.262	0.364	0.147	-0.016	1.733
50.3	-86.0	2.998	0.335	0.537	-0.060	1.509
68.1	-86.0	3.239	0.362	0.196	-0.022	1.237

image 55 d100w07

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
14.6	3.3	4.276	0.477	-5.379	0.600	1.775
32.4	3.3	4.806	0.536	-7.142	0.797	1.243
50.3	3.3	4.007	0.447	-5.715	0.638	1.011
68.1	3.3	4.224	0.471	-6.263	0.699	1.127
86.0	3.3	4.849	0.541	-4.093	0.457	1.040
-21.2	-14.5	3.930	0.439	-2.802	0.313	1.000
-3.3	-14.5	4.025	0.449	-3.432	0.383	1.059
14.6	-14.5	3.944	0.440	-4.596	0.513	1.069
32.4	-14.5	3.932	0.439	-5.681	0.634	1.404
50.3	-14.5	3.258	0.364	-4.492	0.501	1.710
68.1	-14.5	3.472	0.388	-4.023	0.449	1.329
86.0	-14.5	4.057	0.453	-2.911	0.325	1.339
-21.2	-32.4	3.795	0.423	-2.041	0.228	1.198
-3.3	-32.4	3.960	0.442	-2.991	0.334	1.049
14.6	-32.4	4.723	0.527	-3.450	0.385	1.433
32.4	-32.4	1.640	0.183	-2.677	0.299	1.000
50.3	-32.4	2.907	0.324	-3.599	0.402	1.000
68.1	-32.4	3.069	0.342	-3.700	0.413	1.030
86.0	-32.4	4.553	0.508	-3.130	0.349	1.000
-39.0	-50.3	3.270	0.365	-1.130	0.126	1.473
-21.2	-50.3	4.109	0.459	-1.368	0.153	1.420
-3.3	-50.3	3.584	0.400	-2.519	0.281	1.050
14.6	-50.3	2.944	0.329	-3.040	0.339	1.609
32.4	-50.3	3.419	0.382	-1.157	0.129	1.000
50.3	-50.3	3.906	0.436	-1.758	0.196	1.034
68.1	-50.3	2.312	0.258	-3.477	0.388	1.000
86.0	-50.3	7.984	0.891	-2.236	0.250	1.264
-39.0	-68.1	2.474	0.276	-1.660	0.185	1.000
-21.2	-68.1	2.616	0.292	-1.379	0.154	1.602
-3.3	-68.1	3.227	0.360	-2.559	0.286	1.000
14.6	-68.1	3.678	0.410	-4.171	0.465	1.041
32.4	-68.1	4.663	0.520	-1.503	0.168	1.055
50.3	-68.1	7.975	0.890	1.602	-0.179	1.008
68.1	-68.1	5.635	0.629	-2.516	0.281	1.269
86.0	-68.1	6.349	0.709	-6.127	0.684	1.455

image 56 d100w09

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
-3.3	3.3	0.216	0.024	-7.450	0.831	1.764
14.6	3.3	-1.012	-0.113	-6.443	0.719	1.000
32.4	3.3	0.009	0.001	-5.323	0.594	1.000
-3.3	-14.5	0.001	0.000	-9.930	1.108	1.000
14.6	-14.5	3.620	0.404	-4.169	0.465	1.123
32.4	-14.5	-0.751	-0.084	-5.344	0.596	1.000
50.3	-14.5	0.323	0.036	-3.952	0.441	1.000
-3.3	-32.4	0.962	1.755	-7.246	0.809	1.000
14.6	-32.4	1.567	0.175	-7.408	0.827	1.000
32.4	-32.4	0.511	0.057	-5.035	0.562	1.000
50.3	-32.4	0.847	0.095	-6.768	0.755	1.029
-3.3	-50.3	0.962	0.107	-6.477	0.723	1.000
14.6	-50.3	1.407	0.157	-5.564	0.621	1.011
32.4	-50.3	1.369	0.153	-3.769	0.421	1.000
50.3	-50.3	1.069	0.119	-5.097	0.569	1.000
-21.2	-68.1	4.284	0.478	-4.312	0.481	1.000
-3.3	-68.1	2.803	0.313	-3.981	0.444	1.593
14.6	-68.1	3.120	0.348	-4.833	0.539	1.211
32.4	-68.1	1.680	0.187	-4.731	0.528	1.137
-21.2	-86.0	6.137	0.685	-3.164	0.353	1.005
-3.3	-86.0	4.190	0.468	-5.373	0.600	1.148
14.6	-86.0	4.167	0.465	-4.444	0.496	1.000
32.4	-86.0	2.948	0.329	-3.201	0.357	1.563

**Velocity Data for 100 Downstand W-Plane Horizontal Velocities**  
**location**

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
mm	mm	d100w	d100w	d100w	d100w	d100w	d100w	d100w	d100w	mean
-39.0	-14.5	0.000	0.562	0.504	0.508	0.206	0.463	0.000	0.000	0.280
-39.0	-32.4	0.000	0.491	0.472	0.441	0.420	0.426	0.000	0.000	0.281
-39.0	-50.3	0.000	0.411	0.368	0.323	0.349	0.309	0.365	0.000	0.266
-39.0	-68.1	0.000	0.351	0.346	0.403	0.347	0.369	0.276	0.000	0.262
-39.0	-86.0	0.000	0.330	0.309	0.338	0.307	0.331	0.000	0.000	0.202

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
-21.2	-14.5	0.799	0.808	0.530	0.577	0.543	1.151	0.439	0.000	0.606
-21.2	-32.4	0.524	0.594	0.547	0.510	0.587	0.692	0.423	0.000	0.485
-21.2	-50.3	0.412	0.517	0.492	0.470	0.473	0.520	0.459	0.000	0.418
-21.2	-68.1	0.408	0.417	0.338	0.241	0.320	0.431	0.292	0.000	0.306
-21.2	-86.0	0.241	0.874	0.252	0.320	0.254	0.420	0.000	0.000	0.295

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
-3.3	3.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.003
-3.3	-14.5	0.594	0.747	0.537	0.673	0.864	0.672	0.449	0.000	0.567
-3.3	-32.4	0.552	0.720	0.547	0.682	0.606	0.750	0.442	0.196	0.562
-3.3	-50.3	0.524	0.612	0.469	0.549	0.446	0.551	0.400	0.107	0.457
-3.3	-68.1	0.703	0.557	0.321	0.373	0.283	0.452	0.360	0.313	0.420
-3.3	-86.0	0.641	0.544	0.321	0.319	0.321	0.406	0.000	0.465	0.377

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
14.6	3.3	0.469	0.907	0.756	0.731	0.646	0.815	0.477	-0.113	0.586
14.6	-14.5	0.518	0.709	0.461	0.673	0.640	0.657	0.440	0.404	0.563
14.6	-32.4	1.000	0.662	0.461	0.631	0.511	0.651	0.527	0.175	0.577
14.6	-50.3	0.441	0.553	0.443	0.492	0.353	0.573	0.329	0.157	0.418
14.6	-68.1	0.368	0.507	0.413	0.332	0.125	0.450	0.410	0.348	0.369
14.6	-86.0	0.764	0.273	0.372	0.320	0.496	0.345	0.000	0.264	0.354

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
32.4	3.3	0.522	0.669	0.339	0.638	0.657	0.572	0.536	0.001	0.492
32.4	-14.5	0.451	0.571	0.309	0.487	0.455	0.726	0.439	-0.084	0.419
32.4	-32.4	0.579	0.574	0.445	0.420	0.455	0.593	0.183	0.057	0.413
32.4	-50.3	0.403	0.462	0.358	0.332	0.284	0.483	0.382	0.153	0.357
32.4	-68.1	0.530	0.363	0.401	0.303	0.271	0.450	0.520	0.187	0.378
32.4	-86.0	0.811	0.294	0.331	0.316	0.334	0.364	0.000	0.329	0.347

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
50.3	3.3	0.671	0.311	0.216	0.373	0.448	0.196	0.447	0.000	0.333
50.3	-14.5	0.450	0.665	0.315	0.358	0.304	0.440	0.364	0.036	0.367
50.3	-32.4	0.446	0.460	0.354	0.444	0.166	0.398	0.324	0.095	0.336
50.3	-50.3	0.407	0.338	0.293	0.326	0.269	0.433	0.436	0.119	0.328
50.3	-68.1	0.354	0.363	0.347	0.325	0.000	0.425	0.890	0.685	0.424
50.3	-86.0	0.532	0.000	0.000	0.318	0.000	0.335	0.000	0.000	0.148

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
68.1	3.3	0.425	0.425	0.000	0.323	0.517	0.267	0.471	0.000	0.304
68.1	-14.5	0.170	0.430	0.000	0.362	0.133	0.290	0.388	0.000	0.221
68.1	-32.4	0.310	0.216	0.342	0.396	0.000	0.287	0.342	0.000	0.237
68.1	-50.3	0.292	0.323	0.329	0.373	0.000	0.346	0.258	0.478	0.300
68.1	-68.1	0.338	0.337	0.000	0.345	0.000	0.362	0.629	0.000	0.251
68.1	-86.0	0.000	0.000	0.000	0.000	0.000	0.362	0.000	0.000	0.045

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
86.0	3.3	0.000	0.000	0.000	0.225	0.916	0.245	0.541	0.000	0.241
86.0	-14.5	0.000	0.000	0.000	0.306	0.000	0.201	0.453	0.000	0.120
86.0	-32.4	0.000	0.000	0.000	0.351	0.000	0.313	0.508	0.000	0.147
86.0	-50.3	0.000	0.000	0.000	0.000	0.000	0.000	0.891	0.000	0.111
86.0	-68.1	0.000	0.000	0.000	0.000	0.000	0.000	0.709	0.000	0.089

**Velocity Data for 100 Downstand Vertical Velocities**

location		velocity								
x	y	d100w	d100w	d100w	d100w	d100w	d100w	d100w	d100w	d100w09
-39.0	-14.5	0.000	-0.468	0.021	-0.339	0.027	-0.337	0.000	0.000	-0.137
-39.0	-32.4	0.000	-0.273	-0.116	-0.746	-0.135	-0.317	0.000	0.000	-0.198
-39.0	-50.3	0.000	-0.229	-0.191	-0.113	-0.092	-0.095	0.126	0.000	-0.074
-39.0	-68.1	0.000	-0.108	-0.206	-0.128	0.014	0.091	0.185	0.000	-0.019
-39.0	-86.0	0.000	-0.099	-0.159	-0.046	0.049	0.099	0.000	0.000	-0.020

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
-21.2	-14.5	-0.409	-0.245	0.142	-0.091	0.097	-0.117	0.313	0.000	-0.039
-21.2	-32.4	-0.219	-0.149	0.020	-0.248	0.143	-0.206	0.228	0.000	-0.054
-21.2	-50.3	0.186	-0.010	-0.023	-0.199	0.080	-0.119	0.153	0.000	0.008
-21.2	-68.1	0.092	-0.030	-0.144	-0.048	0.088	0.110	0.154	0.000	0.028
-21.2	-86.0	0.423	0.223	-0.127	0.018	0.068	0.017	0.000	0.000	0.078

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
-3.3	3.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.831	0.104
-3.3	-14.5	-0.186	0.119	0.362	0.306	0.144	-0.242	0.383	1.108	0.249
-3.3	-32.4	-0.265	0.067	0.228	0.047	0.276	-0.120	0.334	0.809	0.172
-3.3	-50.3	-0.147	0.004	0.069	-0.033	0.195	0.092	0.281	0.723	0.148
-3.3	-68.1	-0.320	0.086	-0.030	0.079	0.133	0.049	0.286	0.444	0.091
-3.3	-86.0	-0.363	0.166	-0.073	0.151	0.169	0.005	0.000	0.600	0.082

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
14.6	3.3	0.180	0.573	0.681	0.650	0.927	0.705	0.600	0.719	0.629
14.6	-14.5	-0.029	0.455	0.529	0.517	0.641	0.425	0.513	0.465	0.439
14.6	-32.4	-0.109	0.305	0.305	0.179	0.461	0.198	0.385	0.827	0.319
14.6	-50.3	0.355	0.141	0.211	0.256	0.238	0.161	0.339	0.621	0.290
14.6	-68.1	0.097	0.200	-0.018	0.171	0.243	0.096	0.465	0.539	0.224
14.6	-86.0	-0.101	0.259	0.091	0.127	0.270	-0.001	0.000	0.496	0.143

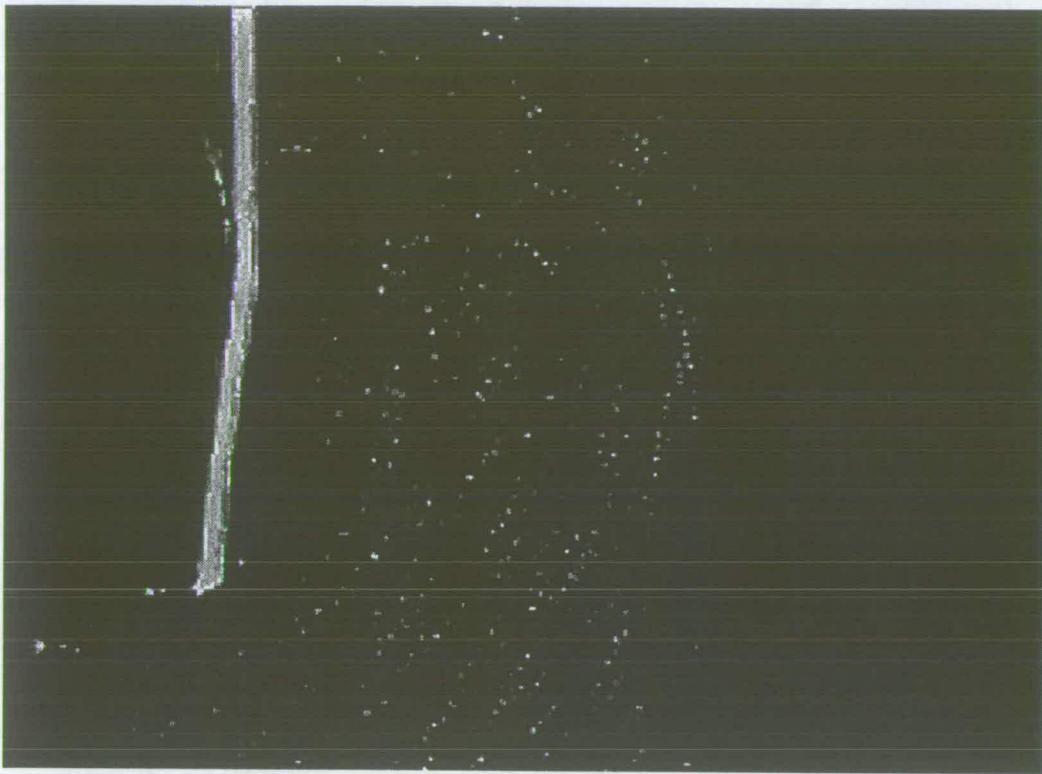
x	y	im49	im50	im51	im52	im53	im54	im55	im56	
32.4	3.3	0.664	0.767	0.737	0.902	1.724	0.542	0.797	0.594	0.841
32.4	-14.5	0.494	0.522	0.542	0.568	0.685	0.331	0.634	0.596	0.547
32.4	-32.4	0.286	0.357	0.370	0.419	0.343	0.313	0.299	0.562	0.369
32.4	-50.3	0.388	0.234	0.204	0.222	0.269	0.222	0.129	0.421	0.261
32.4	-68.1	0.166	0.211	0.134	0.029	0.500	0.068	0.168	0.528	0.225
32.4	-86.0	-0.058	0.183	0.218	0.104	0.346	-0.016	0.000	0.357	0.142

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
50.3	3.3	0.663	0.800	0.670	0.694	0.300	0.634	0.638	0.000	0.550
50.3	-14.5	0.416	0.590	0.570	0.574	0.076	0.562	0.501	0.441	0.466
50.3	-32.4	0.400	0.386	0.513	0.407	0.233	0.308	0.402	0.755	0.425
50.3	-50.3	0.400	0.241	0.265	0.235	0.293	0.201	0.196	0.569	0.300
50.3	-68.1	-0.106	0.228	0.217	0.162	0.000	-0.012	-0.179	0.353	0.083
50.3	-86.0	0.002	0.000	0.000	0.121	0.000	-0.060	0.000	0.000	0.008

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
68.1	3.3	0.569	0.625	0.000	0.547	-0.740	0.525	0.699	0.000	0.278
68.1	-14.5	0.539	0.490	0.000	0.474	-0.449	0.546	0.449	0.000	0.256
68.1	-32.4	0.482	0.296	1.026	0.391	0.000	0.290	0.413	0.000	0.362
68.1	-50.3	0.460	0.290	0.544	0.332	0.000	0.124	0.388	0.481	0.327
68.1	-68.1	0.101	0.255	0.000	0.241	0.000	-0.009	0.281	0.000	0.109
68.1	-86.0	0.000	0.000	0.000	0.000	0.000	-0.022	0.000	0.000	-0.003

x	y	im49	im50	im51	im52	im53	im54	im55	im56	
86.0	3.3	0.000	0.000	0.000	0.602	-0.397	0.427	0.457	0.000	0.136
86.0	-14.5	0.000	0.000	0.000	0.221	0.000	0.265	0.325	0.000	0.101
86.0	-32.4	0.000	0.000	0.000	0.353	0.000	0.321	0.349	0.000	0.128
86.0	-50.3	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.031
86.0	-68.1	0.000	0.000	0.000	0.000	0.000	0.000	0.684	0.000	0.085

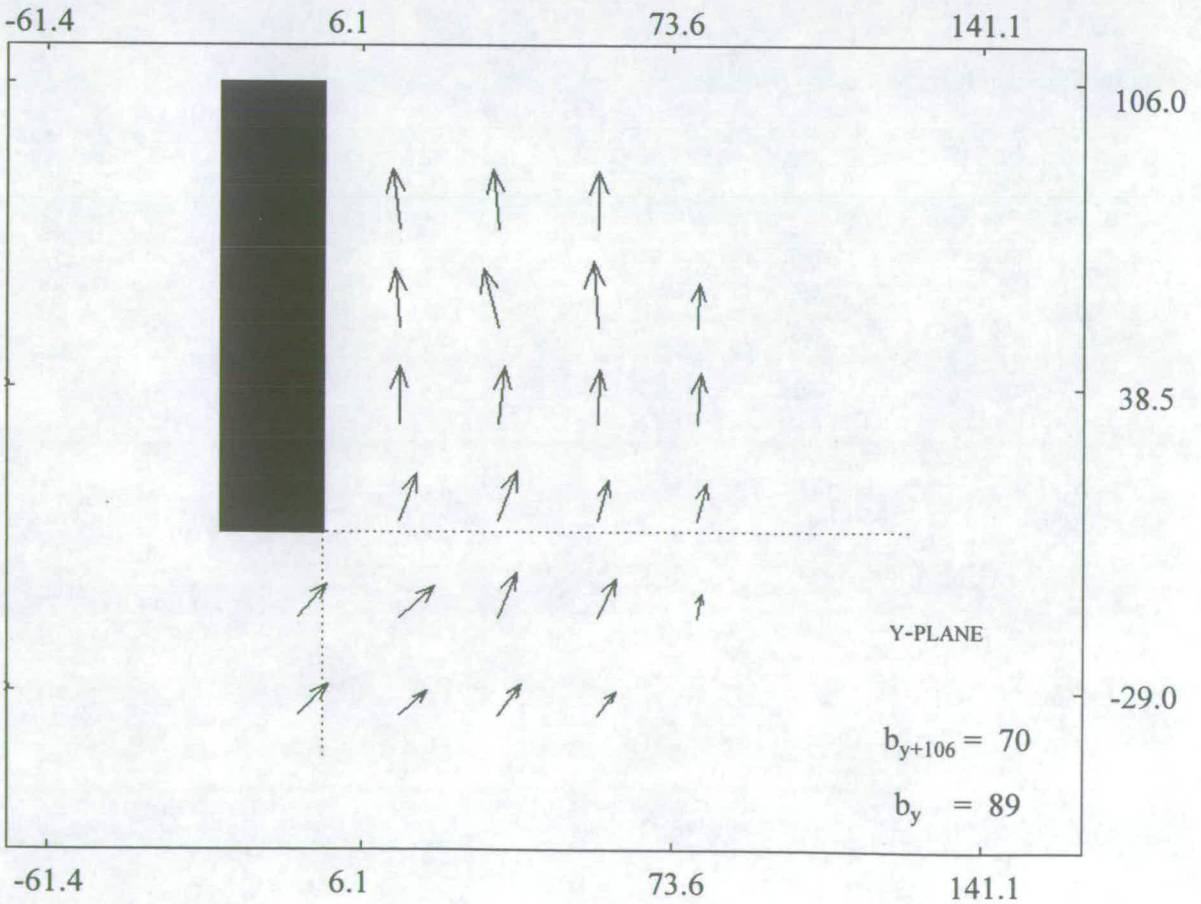




162 MM

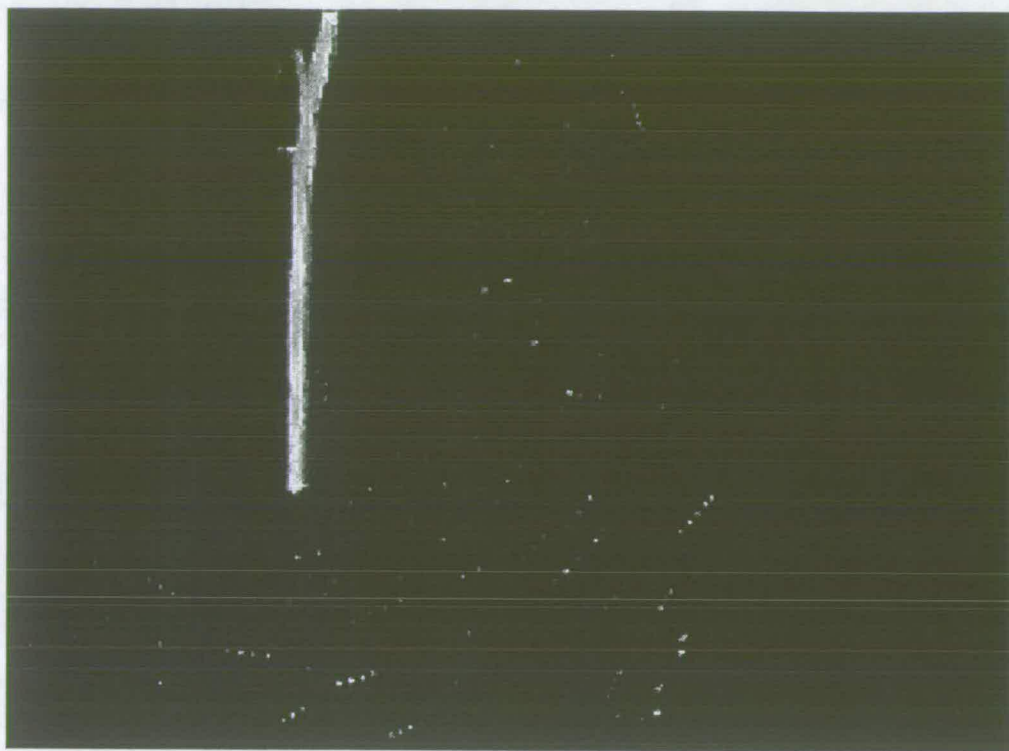
216 MM

ORIGINAL IMAGE



VECTOR MAP  
**IMAGE No. 57**

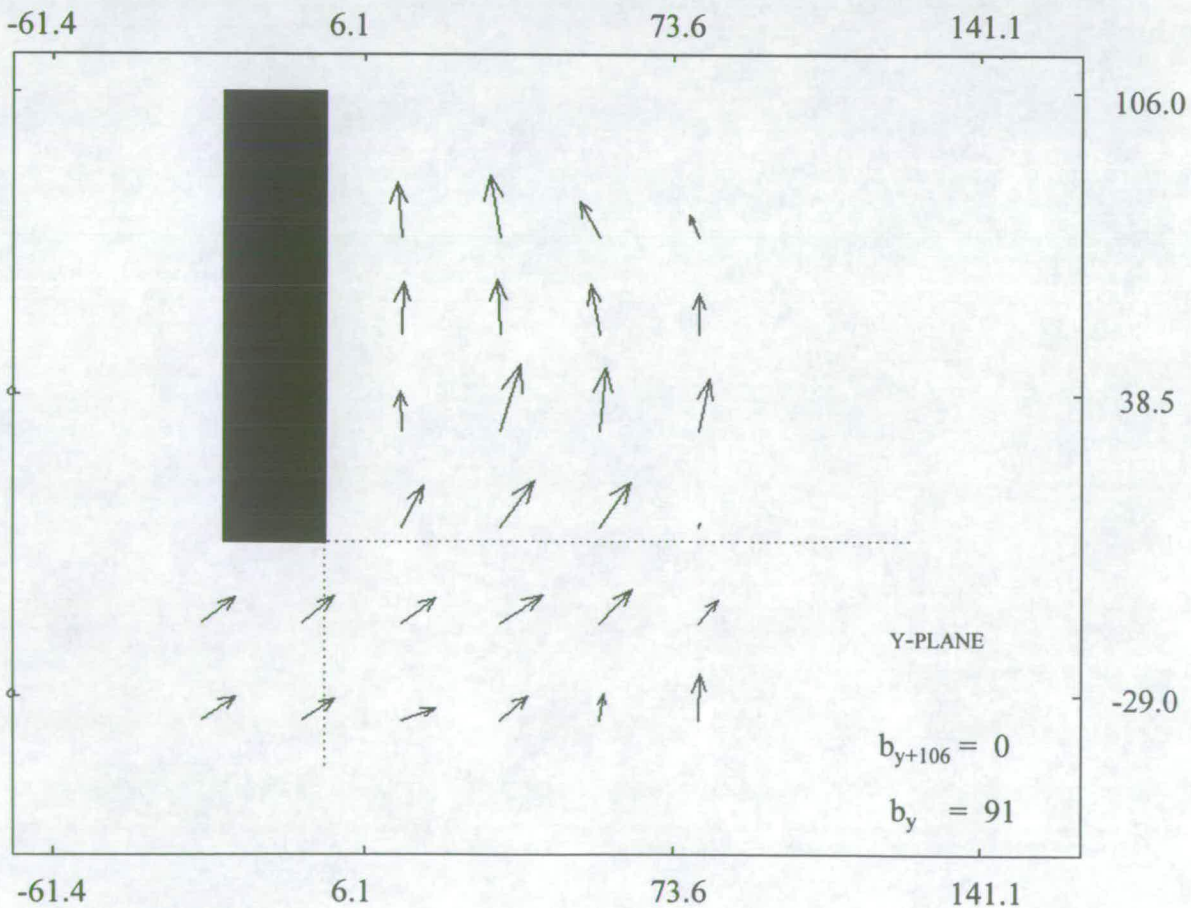
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162 MM

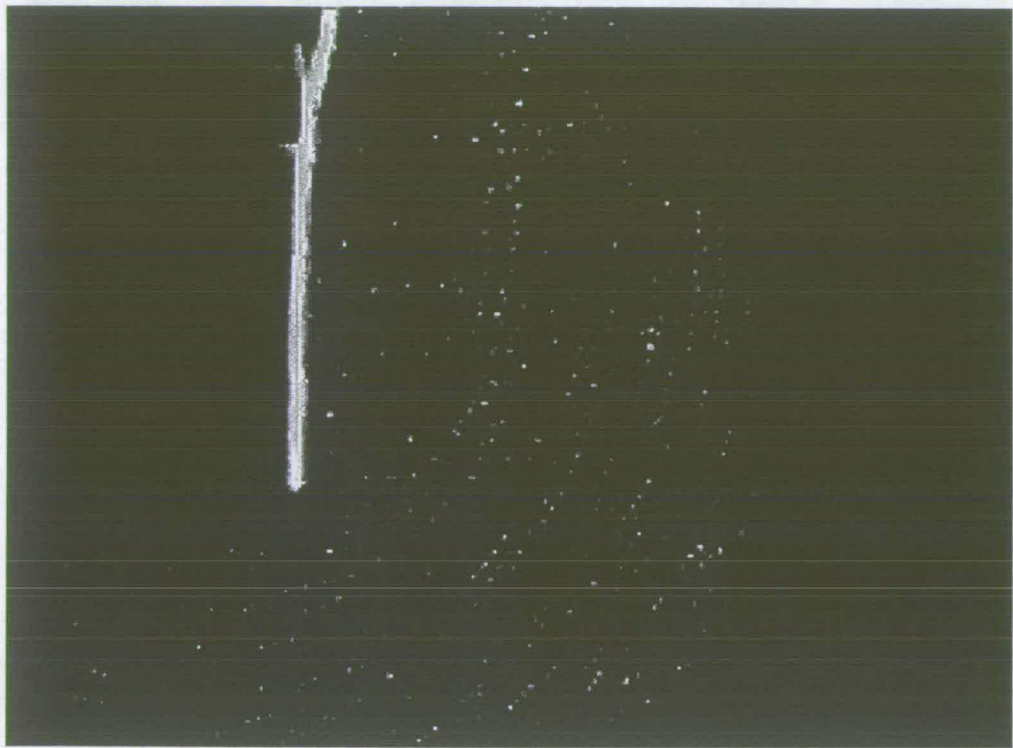
216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 58

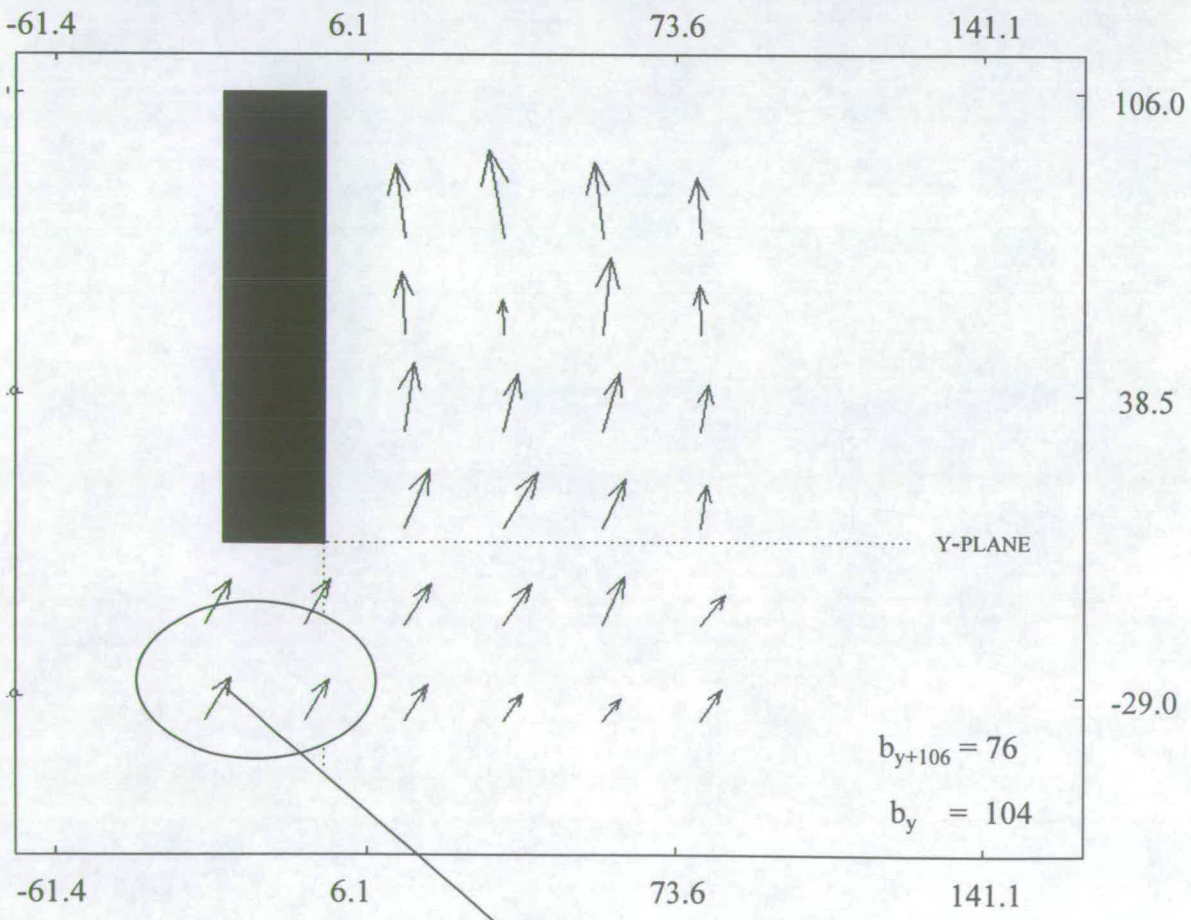
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162 MM

216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 59

processing error

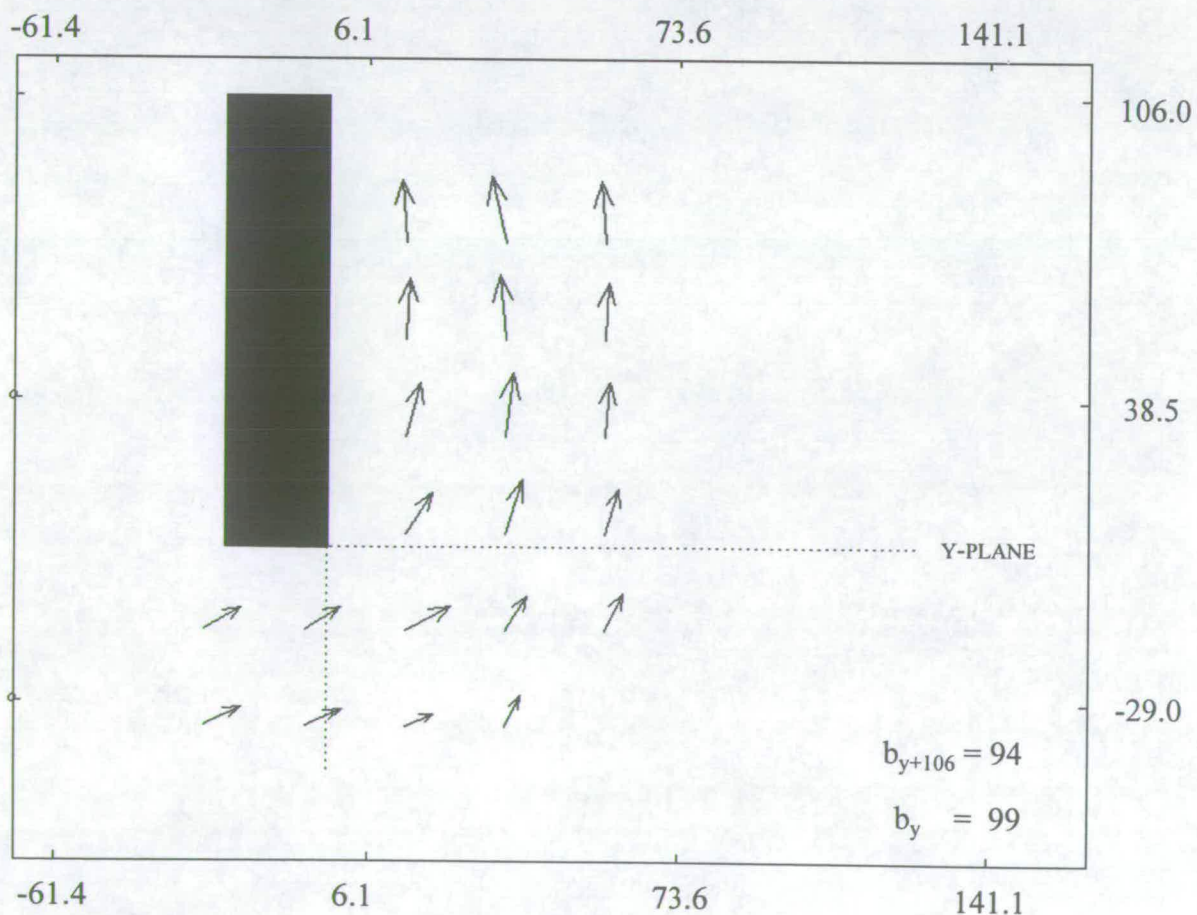
(REF.: D100Y05)



162 MM

216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE No. 60

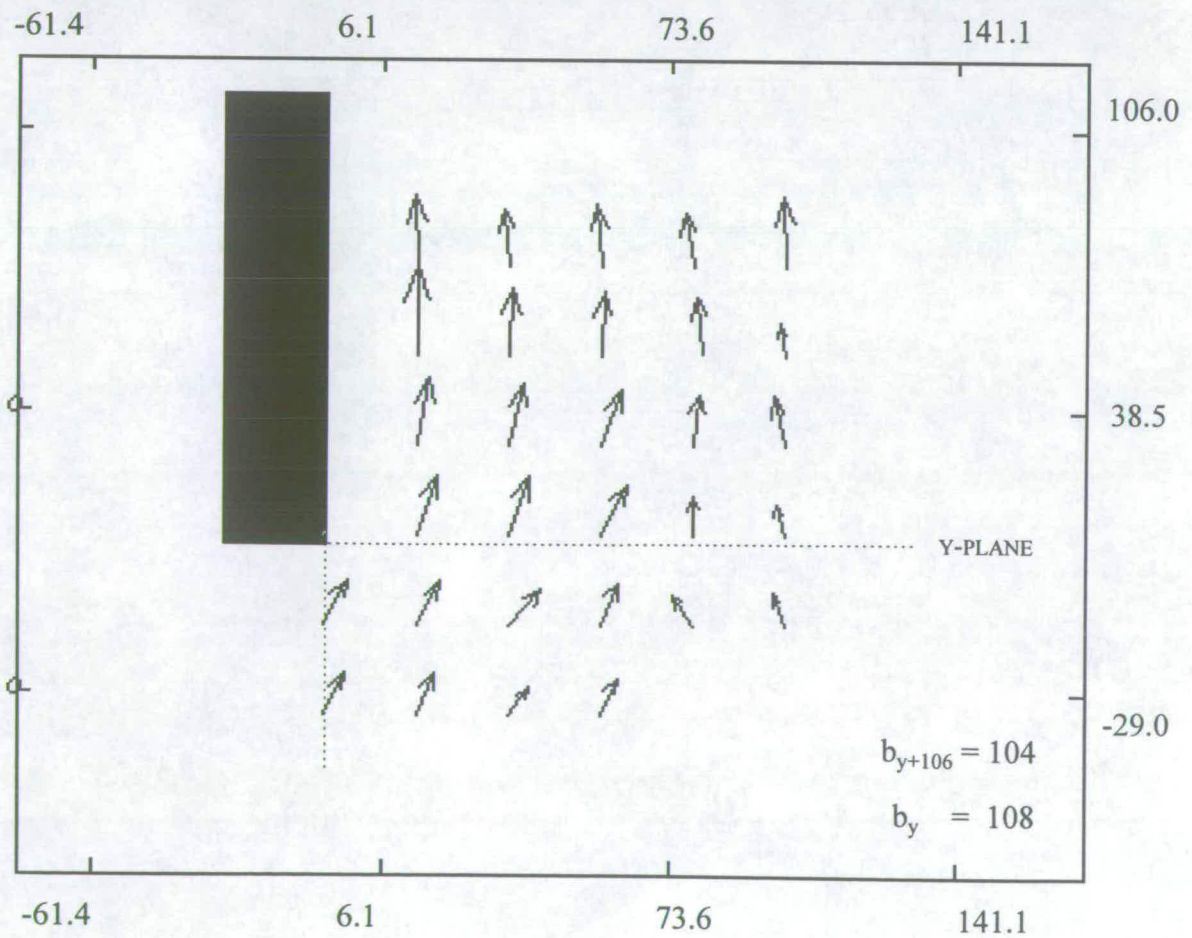
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162 MM

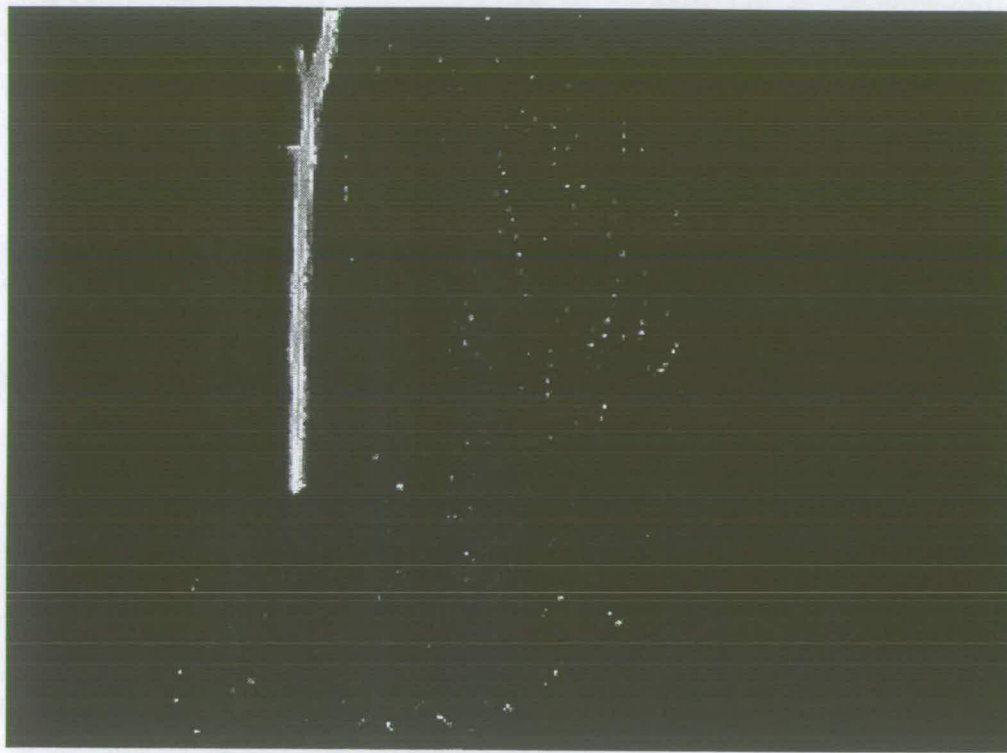
216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 61

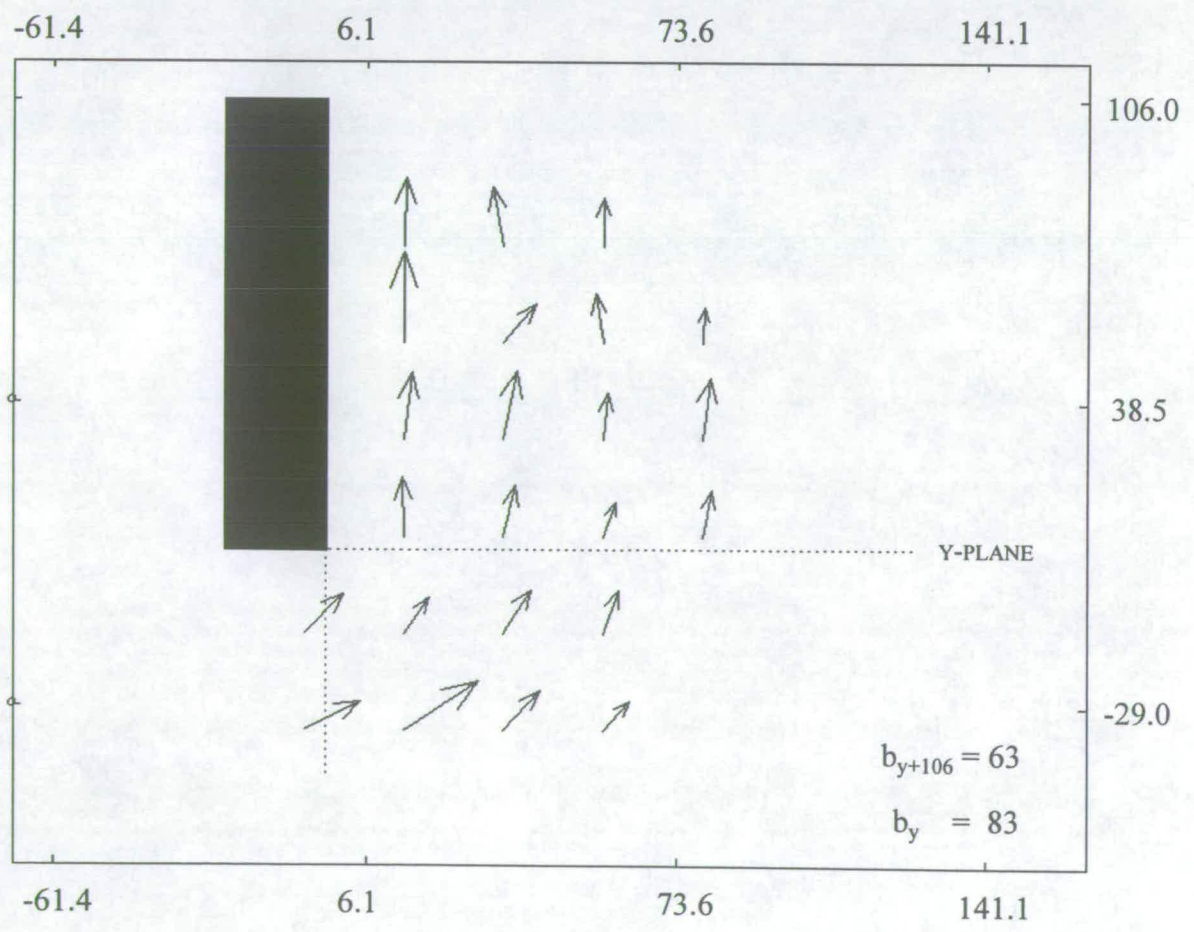
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162 MM

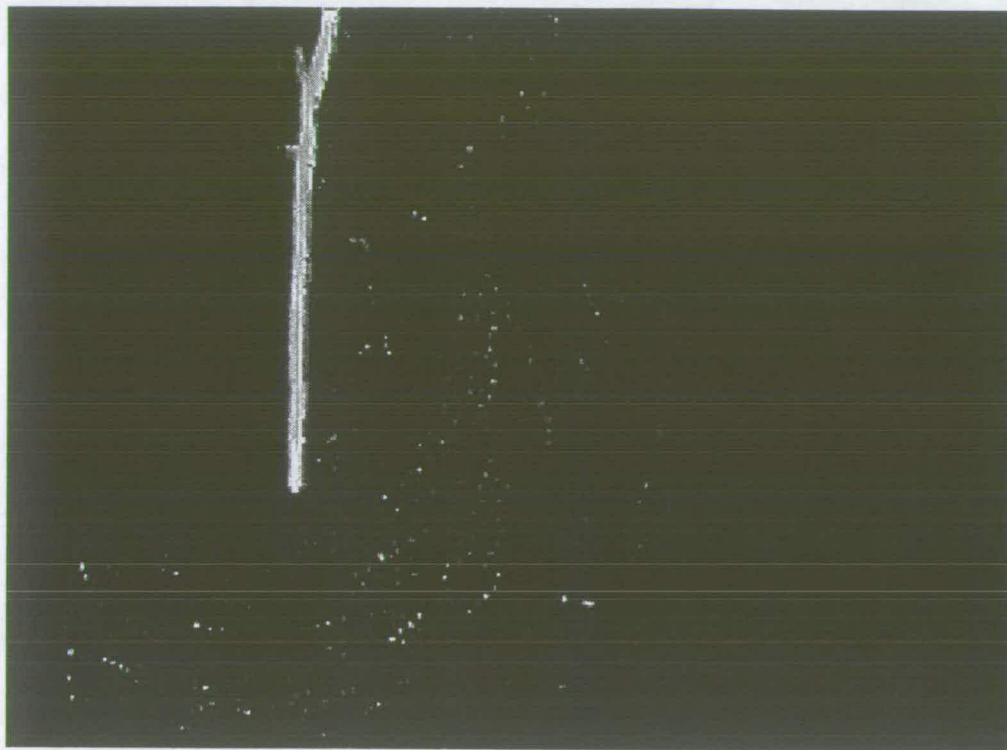
216 MM

**ORIGINAL IMAGE**



**VECTOR MAP  
IMAGE NO. 62**

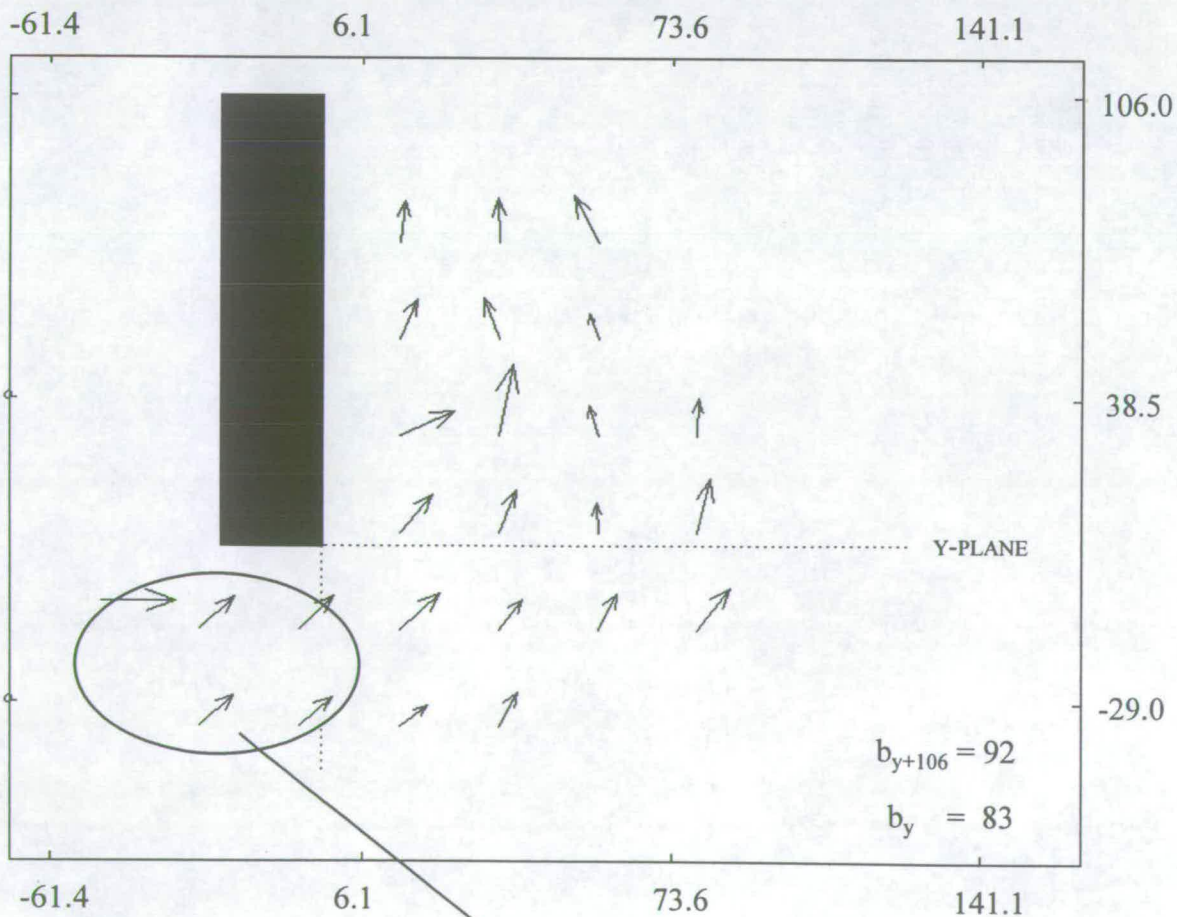
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162 MM

216 MM

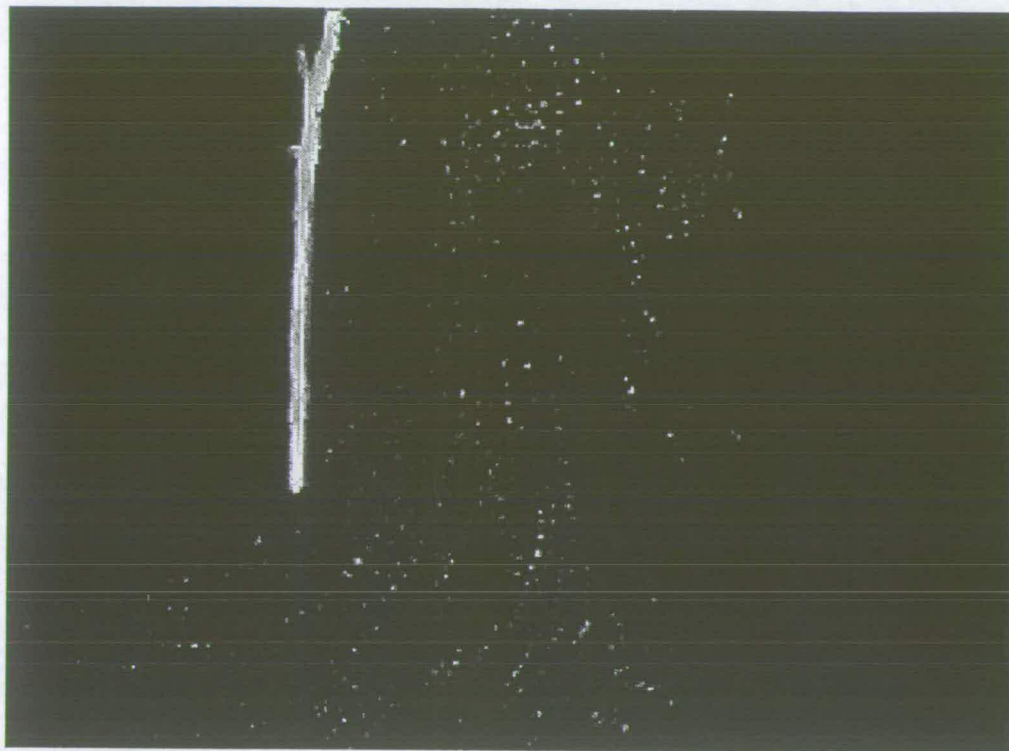
**ORIGINAL IMAGE**



**VECTOR MAP**  
**IMAGE NO. 63**

processing error

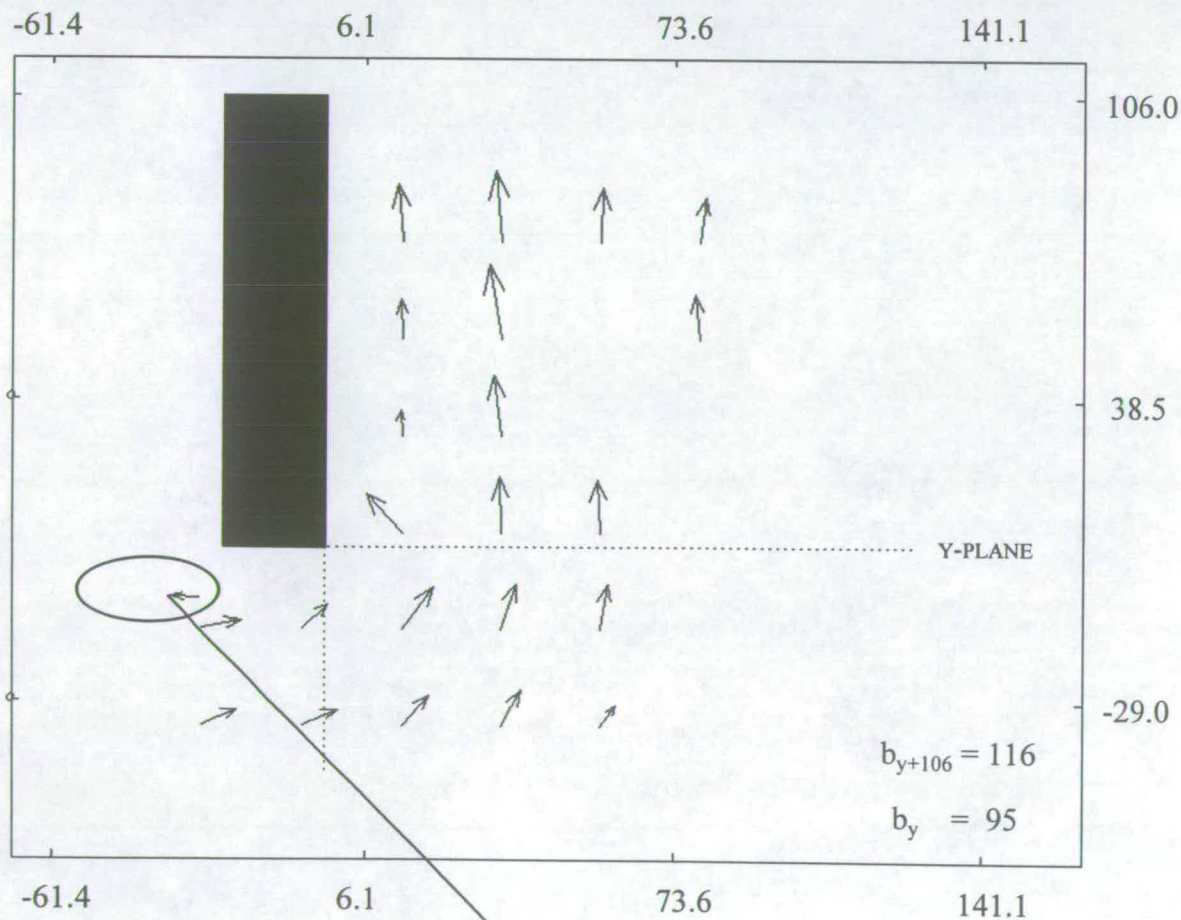
(REF.: D100Y10)



162 MM

216 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 64

processing error

(REF.: D100Y11)

**Image 57 d100y01**

x mm	y mm	x pix/perd	x m/s	y pix/perd	y m/s	noise snr
14.2	73.6	-0.717	-0.097	-6.357	0.858	1.059
35.8	73.6	-0.557	-0.075	-6.374	0.861	1.045
57.4	73.6	0.156	0.021	-6.278	0.848	1.000
14.2	52.0	-0.365	-0.049	-6.235	0.842	1.044
35.8	52.0	-1.554	-0.210	-6.313	0.852	1.000
57.4	52.0	-0.476	-0.064	-7.116	0.961	1.000
79.0	52.0	0.321	0.043	-4.713	0.636	1.000
14.2	30.4	0.057	0.008	-6.214	0.839	1.000
35.8	30.4	0.732	0.099	-6.179	0.834	1.000
57.4	30.4	0.188	0.025	-5.909	0.798	1.000
79.0	30.4	0.361	0.049	-5.655	0.763	1.000
14.2	8.8	1.869	0.252	-5.116	0.691	1.393
35.8	8.8	2.067	0.279	-5.360	0.724	1.000
57.4	8.8	1.189	0.161	-4.395	0.593	1.000
79.0	8.8	1.003	0.135	-4.074	0.550	1.000
-7.4	-12.8	3.147	0.425	-3.660	0.494	1.000
14.2	-12.8	3.905	0.527	-3.368	0.455	1.308
35.8	-12.8	2.041	0.276	-4.978	0.672	1.000
57.4	-12.8	2.087	0.282	-4.279	0.578	1.000
79.0	-12.8	0.629	0.085	-2.653	0.358	1.000
-7.4	-34.4	3.205	0.433	-3.208	0.433	1.000
14.2	-34.4	3.143	0.424	-2.502	0.338	1.038
35.8	-34.4	2.562	0.346	-3.465	0.468	1.142
57.4	-34.4	2.122	0.286	-2.600	0.351	1.000

**Image 58 d100y02**

x mm	y mm	x pix/perd	x m/s	y pix/perd	y m/s	noise snr
14.2	73.6	-0.492	-0.066	-5.961	0.805	1.012
35.8	73.6	-1.123	-0.152	-6.802	0.918	1.000
57.4	73.6	-2.162	-0.292	-3.970	0.536	1.573
79.0	73.6	-0.934	-0.126	-2.471	0.334	1.000
14.2	52.0	0.176	0.024	-5.628	0.760	1.000
35.8	52.0	-0.192	-0.026	-5.949	0.803	1.324
57.4	52.0	-0.844	-0.114	-5.465	0.738	1.000
79.0	52.0	0.054	0.007	-4.445	0.600	1.000
14.2	30.4	-0.071	-0.010	-4.246	0.573	1.000
35.8	30.4	2.198	0.297	-7.188	0.970	1.000
57.4	30.4	0.729	0.098	-6.877	0.928	1.000
79.0	30.4	1.322	0.178	-5.676	0.766	1.000
14.2	8.8	2.373	0.320	-4.640	0.626	1.000
35.8	8.8	3.673	0.496	-5.032	0.679	1.375
57.4	8.8	3.423	0.462	-5.000	0.675	1.167
79.0	8.8	0.302	0.041	-0.372	0.050	1.000
-29.0	-12.8	3.528	0.476	-2.700	0.364	1.308
-7.4	-12.8	3.518	0.475	-2.857	0.386	1.000
14.2	-12.8	3.799	0.513	-2.764	0.373	1.090
35.8	-12.8	4.750	0.641	-3.156	0.426	1.273
57.4	-12.8	3.538	0.478	-3.677	0.496	1.629
79.0	-12.8	2.245	0.303	-2.526	0.341	1.000
-29.0	-34.4	3.593	0.485	-2.476	0.334	1.085
-7.4	-34.4	3.656	0.494	-2.229	0.301	1.595
14.2	-34.4	3.707	0.500	-1.232	0.166	1.591
35.8	-34.4	3.161	0.427	-2.647	0.357	1.498
57.4	-34.4	0.570	0.077	-2.859	0.386	1.000
79.0	-34.4	0.284	0.038	-5.155	0.696	1.000

**Image 59 d100y05**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			
mm	mm	pix/perd	m/s	pix/perd	m/s			snr
14.2	73.6	-0.959	-0.129	-7.997	1.080			1.045
35.8	73.6	-1.557	-0.210	-9.584	1.294			1.000
57.4	73.6	-0.946	-0.128	-8.280	1.118			1.000
79.0	73.6	-0.458	-0.062	-6.636	0.896			1.000
14.2	52.0	-0.246	-0.033	-6.706	0.905			1.121
35.8	52.0	-0.145	-0.020	-3.810	0.514			1.000
57.4	52.0	0.854	0.115	-8.415	1.136			1.000
79.0	52.0	-0.003	0.000	-5.350	0.722			1.000
14.2	30.4	1.017	0.137	-7.463	1.008			1.070
35.8	30.4	0.076	0.010	-9.985	1.348			1.000
57.4	30.4	1.918	0.259	-6.416	0.866			1.000
79.0	30.4	0.968	0.131	-5.138	0.694			1.000
14.2	8.8	2.707	0.365	-6.471	0.874			1.032
35.8	8.8	3.762	0.508	-6.058	0.818			1.226
57.4	8.8	2.514	0.339	-5.440	0.734			1.000
79.0	8.8	0.795	0.107	-4.832	0.652			1.000
-7.4	-12.8	2.868	0.387	-4.968	0.671			1.000
14.2	-12.8	2.907	0.393	-4.456	0.601			1.087
35.8	-12.8	3.045	0.411	-4.461	0.602			1.667
57.4	-12.8	2.378	0.321	-5.229	0.706			1.000
79.0	-12.8	2.824	0.381	-3.317	0.448			1.813
-7.4	-34.4	2.725	0.368	-4.370	0.590			1.007
14.2	-34.4	2.565	0.346	-3.914	0.528			1.028
35.8	-34.4	2.053	0.277	-2.984	0.403			1.114
57.4	-34.4	2.128	0.287	-2.470	0.333			1.000
79.0	-34.4	2.355	0.318	-3.372	0.455			1.006

**Image 60 d100y06**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			
mm	mm	pix/perd	m/s	pix/perd	m/s			snr
14.2	73.6	-0.433	-0.058	-6.833	0.922			1.080
35.8	73.6	-1.588	-0.214	-7.246	0.978			1.000
57.4	73.6	-0.499	-0.067	-6.769	0.914			1.063
14.2	52.0	0.407	0.055	-6.508	0.879			1.000
35.8	52.0	-0.515	-0.069	-7.073	0.955			1.000
57.4	52.0	0.369	0.050	-6.288	0.849			1.000
14.2	30.4	1.664	0.225	-5.744	0.775			1.000
35.8	30.4	0.867	0.117	-6.877	0.928			1.000
57.4	30.4	0.615	0.083	-5.983	0.808			1.000
14.2	8.8	2.883	0.389	-4.406	0.595			1.000
35.8	8.8	1.853	0.250	-5.870	0.792			1.000
57.4	8.8	1.643	0.222	-4.869	0.657			1.000
-29.0	-12.8	3.956	0.534	-2.290	0.309			1.034
-7.4	-12.8	3.959	0.535	-2.414	0.326			1.000
14.2	-12.8	4.961	0.670	-2.553	0.345			1.433
35.8	-12.8	2.435	0.329	-3.789	0.512			1.000
57.4	-12.8	2.076	0.280	-4.091	0.552			1.000
-29.0	-34.4	3.954	0.534	-1.941	0.262			1.224
-7.4	-34.4	4.010	0.541	-1.707	0.230			1.190
14.2	-34.4	3.097	0.418	-1.299	0.175			1.173

**Image 61 d100y08**

x mm	y mm	x pix/perd	x m/s	y pix/perd	y m/s	noise snr
14.2	73.6	-0.047	-0.006	-8.300	1.120	1.411
35.8	73.6	-0.468	-0.063	-6.641	0.897	1.000
57.4	73.6	-0.418	-0.056	-7.040	0.950	1.000
79.0	73.6	-0.846	-0.114	-6.249	0.844	1.000
100.6	73.6	-0.100	-0.014	-8.128	1.097	1.000
14.2	52.0	0.026	0.004	-10.389	1.402	1.000
35.8	52.0	0.381	0.051	-7.816	1.055	1.004
57.4	52.0	0.367	0.050	-7.344	0.991	1.000
100.6	52.0	-0.485	-0.065	-3.747	0.506	1.000
14.2	30.4	1.501	0.203	-7.943	1.072	1.178
35.8	30.4	1.948	0.263	-7.231	0.976	1.225
57.4	30.4	2.629	0.355	-6.543	0.883	1.124
79.0	30.4	0.858	0.116	-5.933	0.801	1.030
100.6	30.4	-1.155	-0.156	-5.679	0.767	1.000
14.2	8.8	2.568	0.347	-6.819	0.921	1.009
35.8	8.8	2.526	0.341	-6.671	0.901	1.356
57.4	8.8	3.246	0.438	-5.896	0.796	1.614
79.0	8.8	0.182	0.025	-4.538	0.613	1.112
100.6	8.8	-0.806	-0.109	-3.649	0.493	1.000
-7.4	-12.8	2.772	0.374	-5.224	0.705	1.000
14.2	-12.8	2.967	0.401	-5.087	0.687	1.311
35.8	-12.8	3.968	0.536	-4.215	0.569	1.568
57.4	-12.8	2.291	0.309	-4.994	0.674	1.000
79.0	-12.8	-2.233	-0.301	-3.371	0.455	1.000
100.6	-12.8	-1.036	-0.140	-3.858	0.521	1.185
-7.4	-34.4	2.614	0.353	-4.851	0.655	1.000
14.2	-34.4	2.187	0.295	-4.668	0.630	1.000
35.8	-34.4	2.619	0.354	-3.092	0.417	1.228
57.4	-34.4	2.030	0.274	-4.054	0.547	1.060

**Image 62 d100y09**

x mm	y mm	x pix/perd	x m/s	y pix/perd	y m/s	noise snr
14.2	73.6	0.216	0.029	-7.450	1.006	1.764
35.8	73.6	-1.012	-0.137	-6.443	0.870	1.000
57.4	73.6	0.009	0.001	-5.323	0.719	1.000
14.2	52.0	0.001	0.000	-9.930	1.341	1.000
35.8	52.0	3.620	0.489	-4.169	0.563	1.123
57.4	52.0	-0.751	-0.101	-5.344	0.721	1.000
79.0	52.0	0.323	0.044	-3.952	0.534	1.000
14.2	30.4	-0.015	-0.002	-2.507	0.338	1.000
35.8	30.4	1.567	0.212	-7.408	1.000	1.000
57.4	30.4	0.511	0.069	-5.035	0.680	1.000
79.0	30.4	0.847	0.114	-6.768	0.914	1.029
14.2	8.8	-0.037	-0.005	-6.477	0.874	1.000
35.8	8.8	1.407	0.190	-5.564	0.751	1.011
57.4	8.8	1.369	0.185	-3.769	0.509	1.000
79.0	8.8	1.069	0.144	-5.097	0.688	1.000
-7.4	-12.8	4.284	0.578	-4.312	0.582	1.000
14.2	-12.8	2.803	0.378	-3.981	0.537	1.593
35.8	-12.8	3.120	0.421	-4.833	0.652	1.211
57.4	-12.8	1.680	0.227	-4.731	0.639	1.137
-7.4	-34.4	6.137	0.828	-3.164	0.427	1.005
14.2	-34.4	8.114	1.095	-5.373	0.725	1.148
35.8	-34.4	4.167	0.562	-4.444	0.600	1.000
57.4	-34.4	2.948	0.398	-3.201	0.432	1.563

**Image 63 d100y10**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			
mm	mm	pix/perd	m/s	pix/perd	m/s			snr
14.2	73.6	0.586	0.079	-4.398	0.594			1.034
35.8	73.6	-0.004	0.000	-4.671	0.631			1.000
57.4	73.6	-2.565	-0.346	-5.031	0.679			1.256
14.2	52.0	1.841	0.249	-4.300	0.580			1.258
35.8	52.0	-1.636	-0.221	-4.379	0.591			1.000
57.4	52.0	-0.988	-0.133	-2.783	0.376			1.000
14.2	30.4	5.997	0.810	-2.545	0.344			1.008
35.8	30.4	1.567	0.212	-7.819	1.056			1.000
57.4	30.4	-0.884	-0.119	-3.280	0.443			1.000
79.0	30.4	0.280	0.038	-4.136	0.558			1.012
14.2	8.8	3.659	0.494	-4.115	0.555			1.149
35.8	8.8	1.877	0.253	-4.653	0.628			1.005
57.4	8.8	-0.019	-0.003	-3.317	0.448			1.000
79.0	8.8	1.650	0.223	-5.875	0.793			1.000
-29.0	-12.8	3.731	0.504	-3.430	0.463			1.245
-7.4	-12.8	3.792	0.512	-3.550	0.479			1.000
14.2	-12.8	4.478	0.605	-3.908	0.528			1.294
35.8	-12.8	2.605	0.352	-3.241	0.437			1.189
57.4	-12.8	2.068	0.279	-3.981	0.537			1.621
79.0	-12.8	3.811	0.514	-4.636	0.626			1.334
-29.0	-34.4	3.645	0.492	-3.282	0.443			1.596
-7.4	-34.4	3.503	0.473	-3.109	0.420			1.474
14.2	-34.4	3.061	0.413	-2.213	0.299			1.434
35.8	-34.4	2.043	0.276	-3.806	0.514			1.000

**Image 64 d100y11**

location		velocity		velocity		velocity		noise
x	y	x	x	y	y			
mm	mm	pix/perd	m/s	pix/perd	m/s			snr
14.2	73.6	-0.395	-0.053	-6.194	0.836			1.067
35.8	73.6	-0.520	-0.070	-7.747	1.046			1.000
57.4	73.6	0.217	0.029	-5.836	0.788			1.000
79.0	73.6	0.677	0.091	-4.989	0.674			1.000
14.2	52.0	-0.014	-0.002	-4.316	0.583			1.000
35.8	52.0	-1.240	-0.167	-8.132	1.098			1.000
79.0	52.0	-0.339	-0.046	-4.912	0.663			1.000
14.2	30.4	-0.163	-0.022	-2.696	0.364			1.000
35.8	30.4	-0.774	-0.105	-6.642	0.897			1.000
14.2	8.8	-3.699	-0.499	-4.247	0.573			1.131
35.8	8.8	-0.092	-0.012	-6.099	0.823			1.000
57.4	8.8	-0.255	-0.034	-5.790	0.782			1.000
-29.0	-12.8	4.207	0.568	-0.706	0.095			1.107
-7.4	-12.8	2.899	0.391	-2.620	0.354			1.000
14.2	-12.8	3.470	0.468	-4.517	0.610			1.510
35.8	-12.8	1.709	0.231	-4.962	0.670			1.000
57.4	-12.8	0.843	0.114	-4.997	0.675			1.000
-29.0	-34.4	3.779	0.510	-1.624	0.219			1.476
-7.4	-34.4	3.870	0.523	-1.639	0.221			1.162
14.2	-34.4	2.965	0.400	-3.283	0.443			1.568
35.8	-34.4	2.290	0.309	-3.849	0.520			1.000
57.4	-34.4	1.774	0.239	-2.227	0.301			1.000

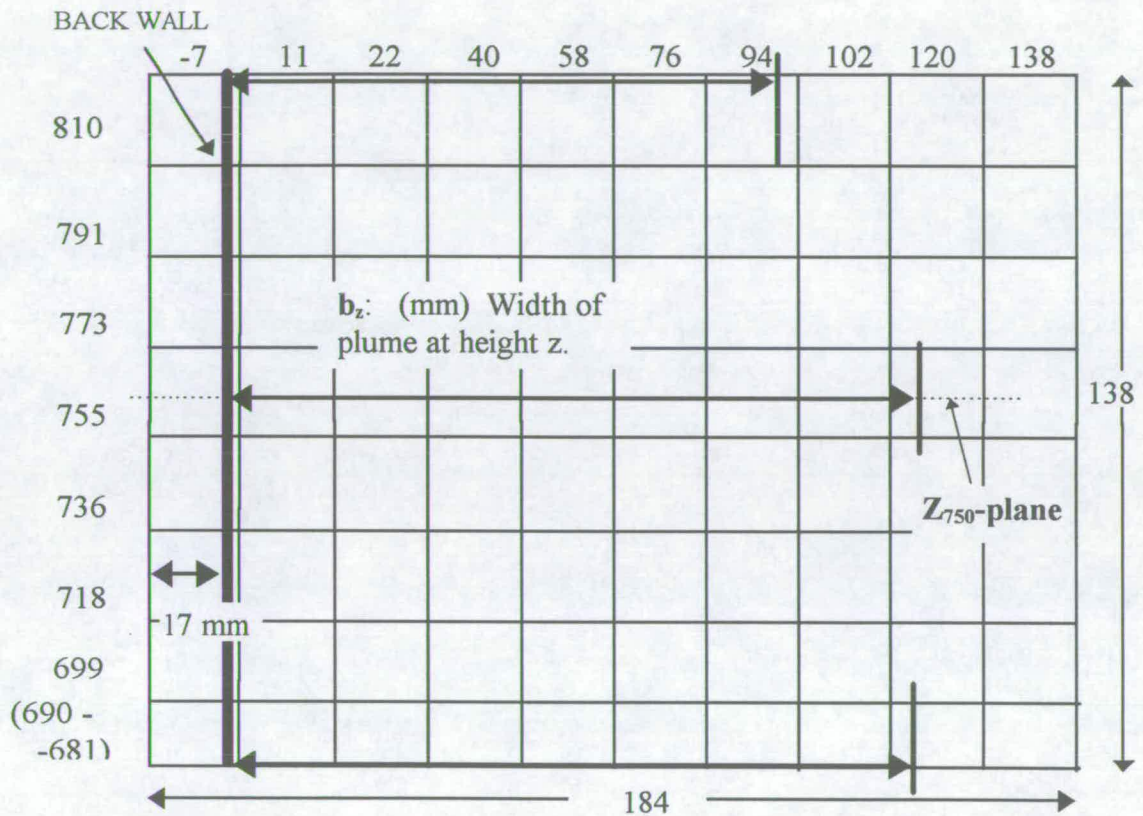




# IMAGES 65 TO 72:

## FLOW FROM FIRE COMPARTMENT (Z-PLANE)

660 mm long compartment; 100 mm deep downstand;  
no balcony; 4.61 kw heat source

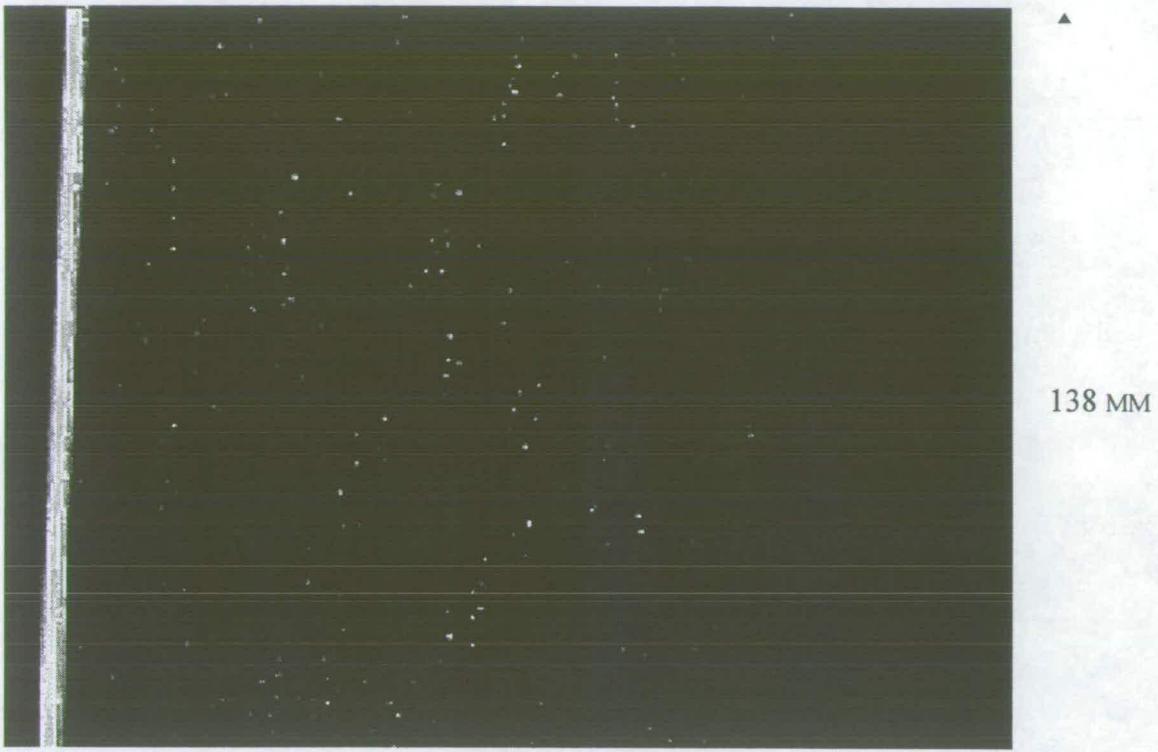


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 65 - 72

Interrogation areas 18.4 mm x 18.4 mm.

SCALE: 1 PIXEL = 0.575 MM

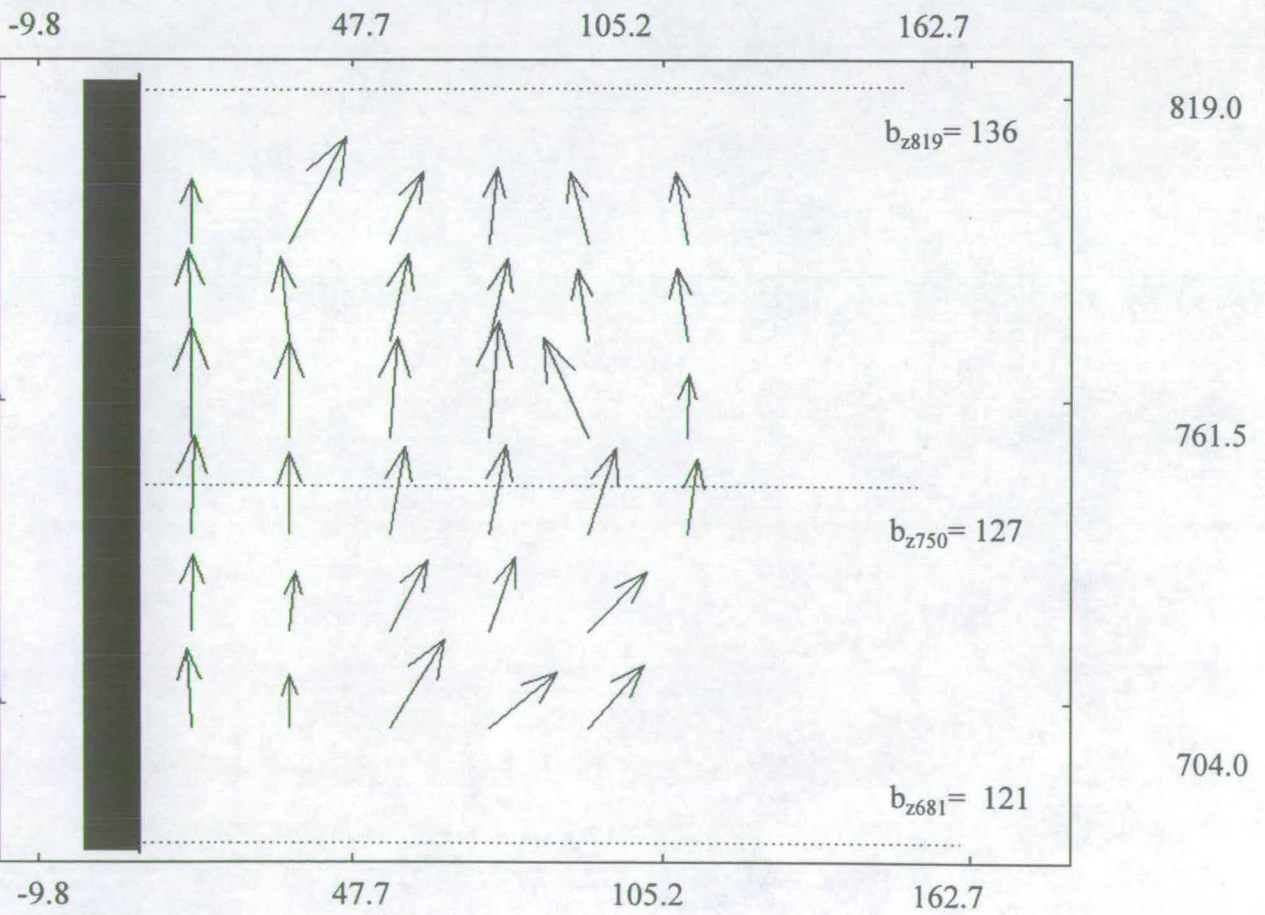
File references: d100h01, d100h03, d100h05, d100h06, d100h07, d100h08, d100h10, d100h11



ORIGINAL IMAGE

184 MM

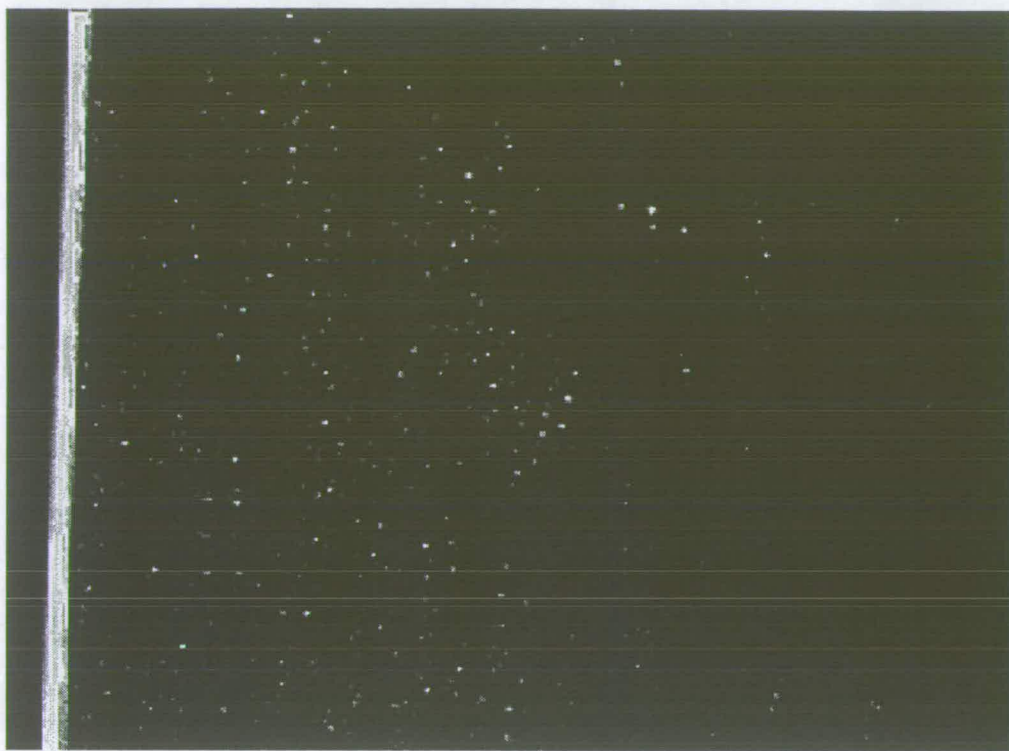
138 MM



VECTOR MAP

IMAGE NO. 65

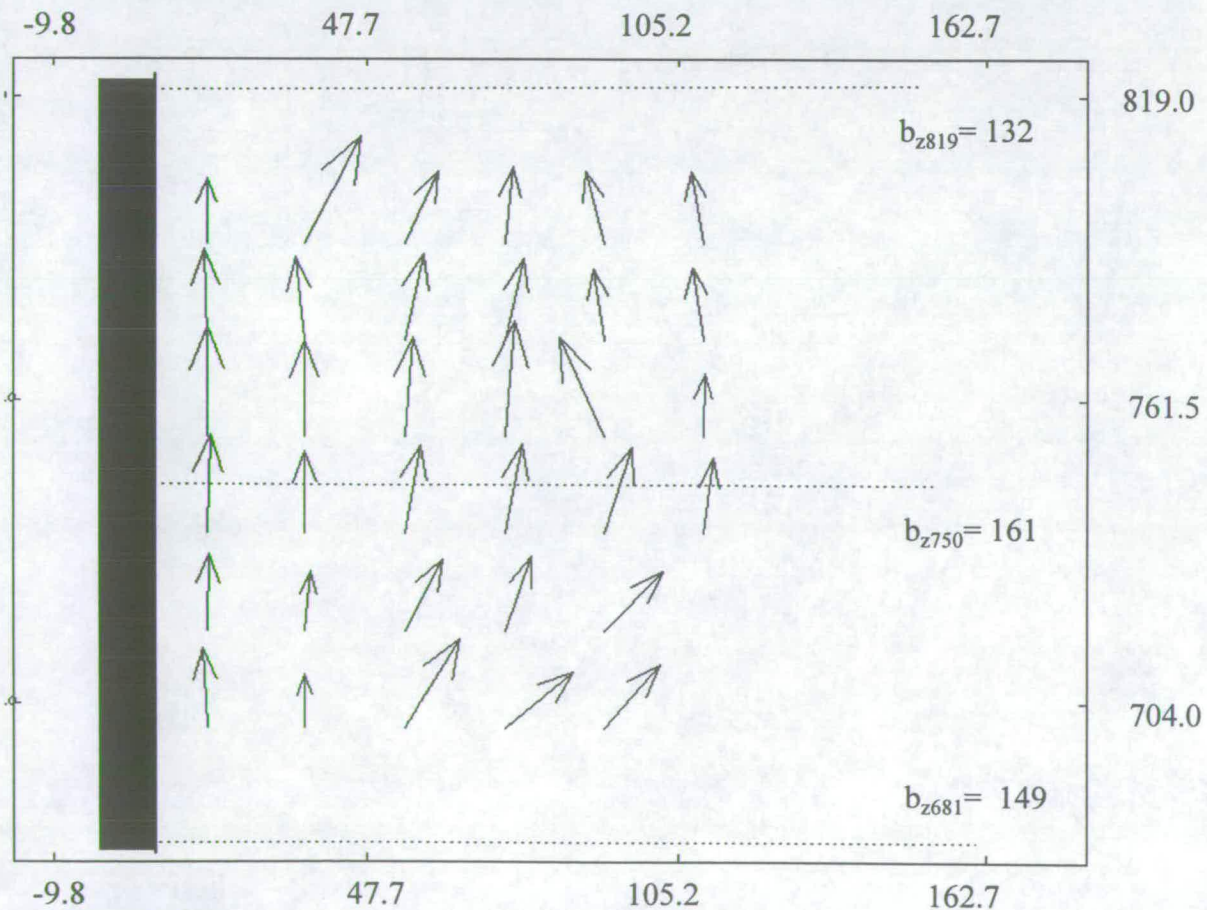
(REF.: D100H01)



138 MM

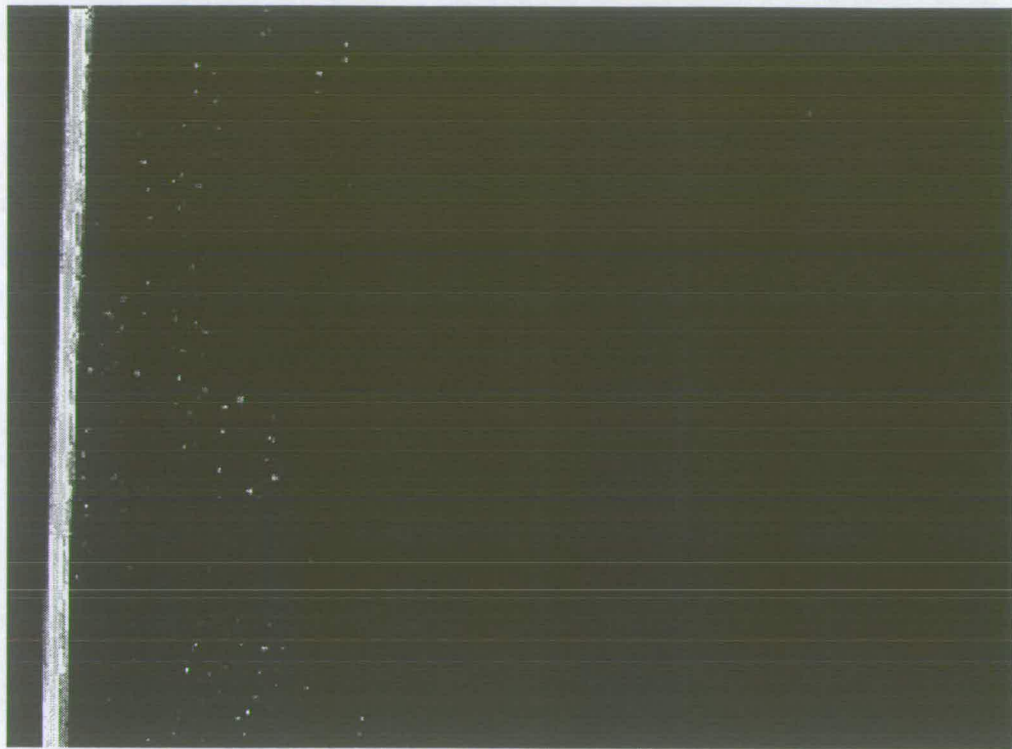
184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 66

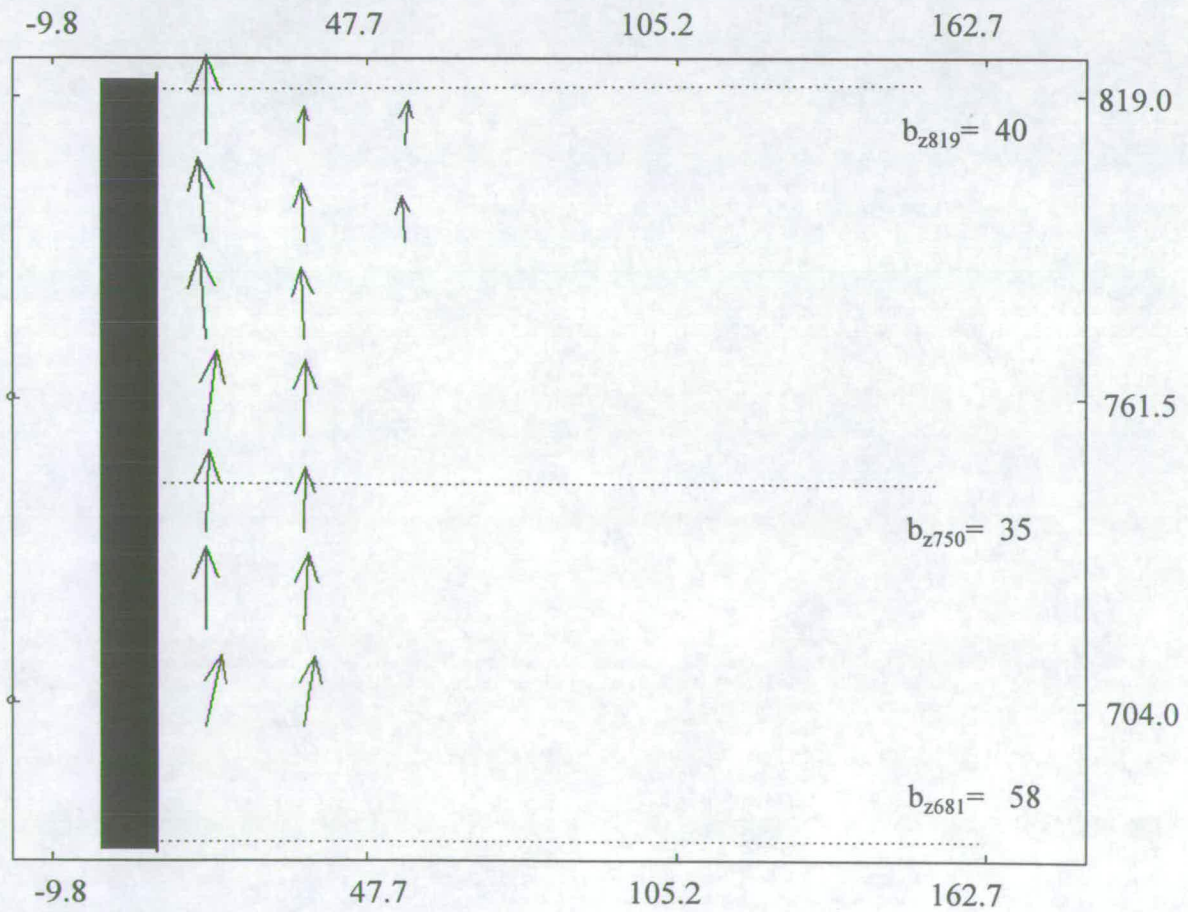
(REF.: D100H03)



138 MM

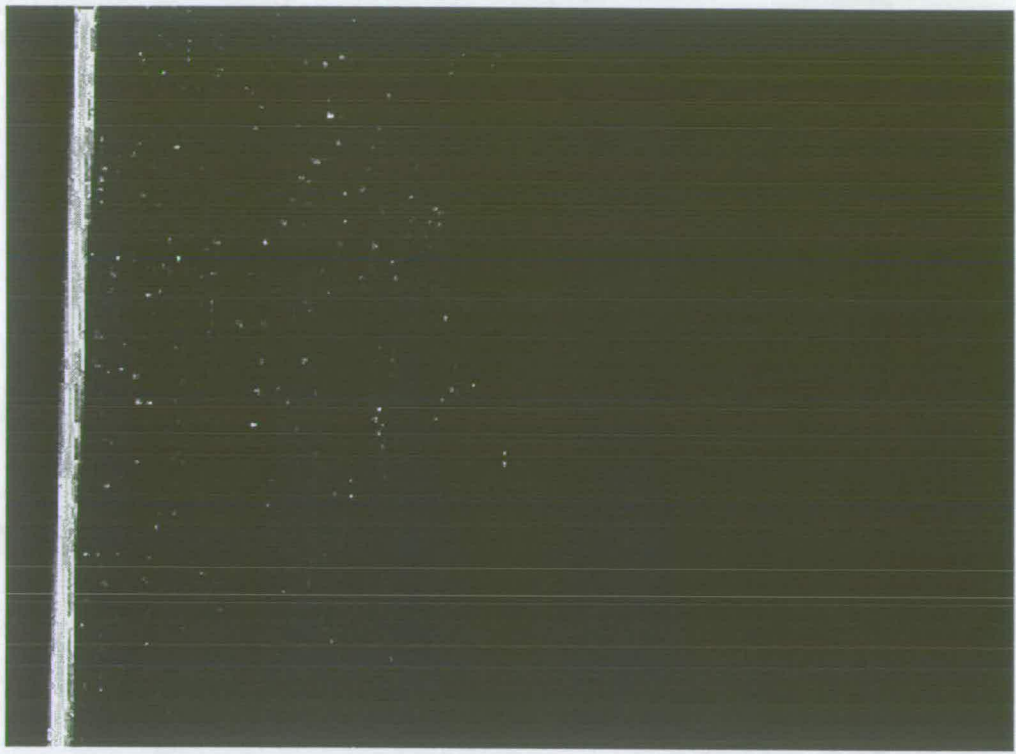
184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 68

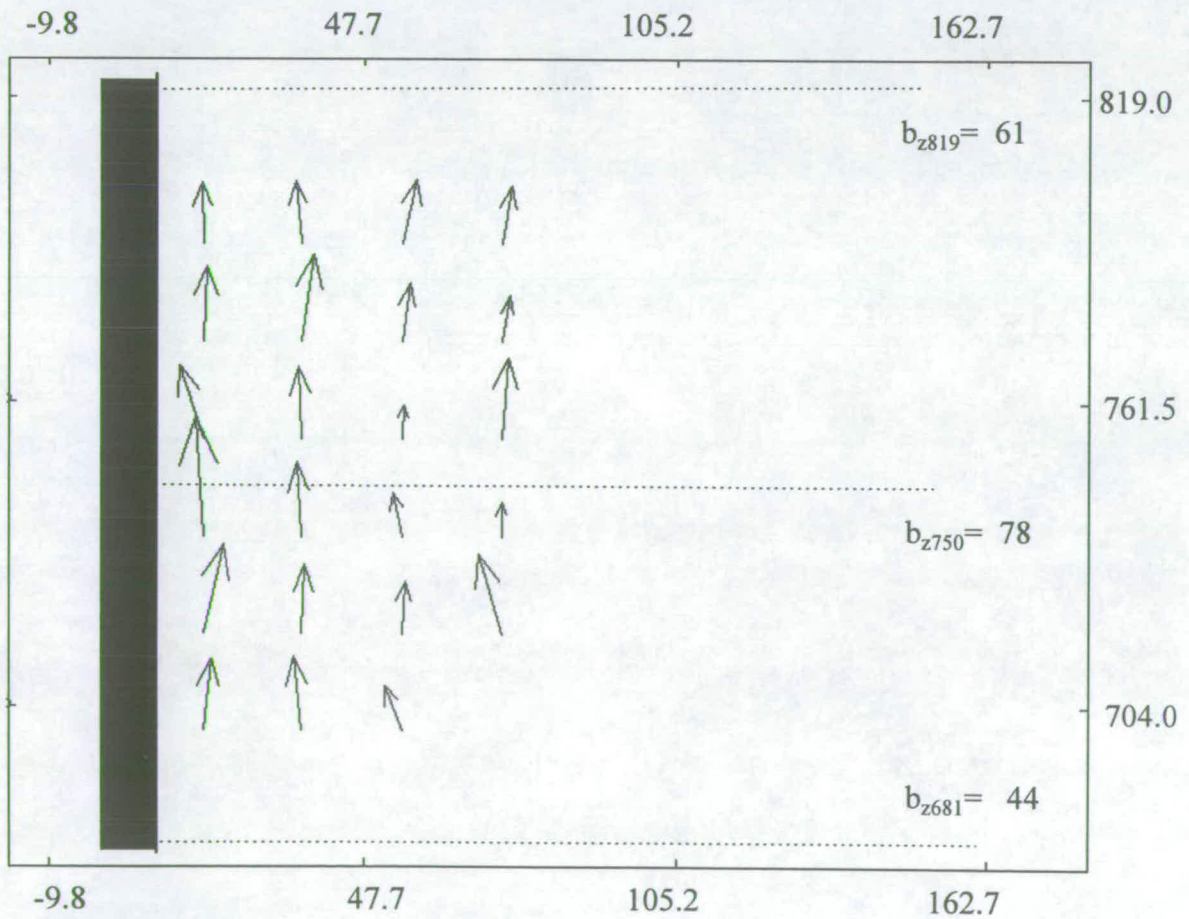
(REF.: D100H06)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

$b_{z819} = 61$

761.5

$b_{z750} = 78$

704.0

$b_{z681} = 44$

-9.8

47.7

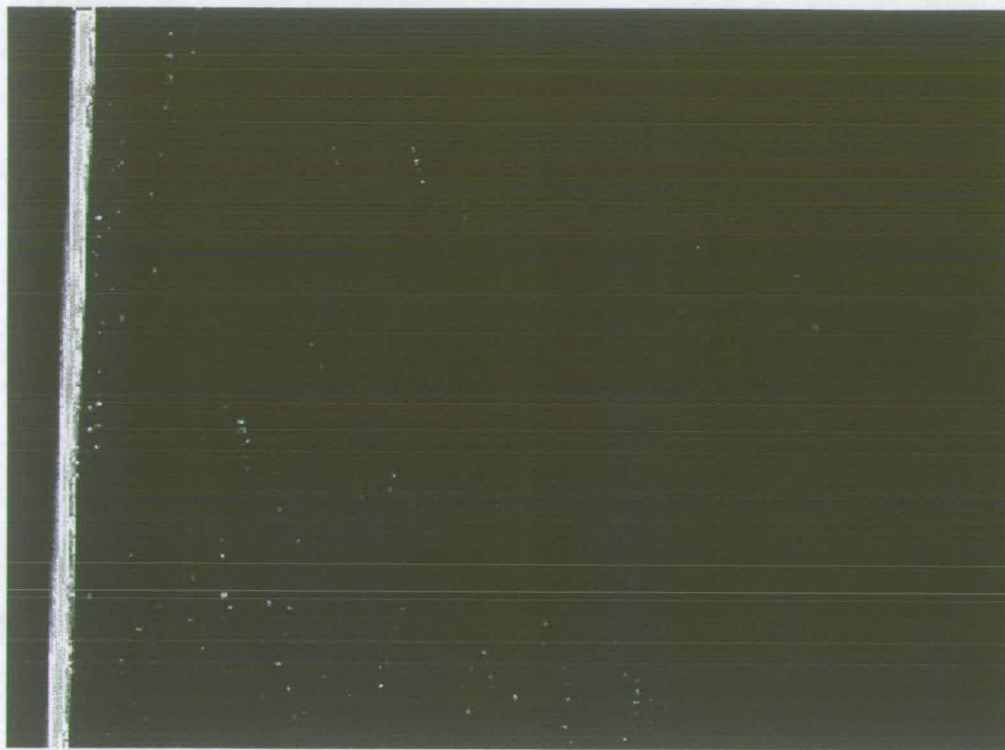
105.2

162.7

VECTOR MAP

IMAGE NO. 69

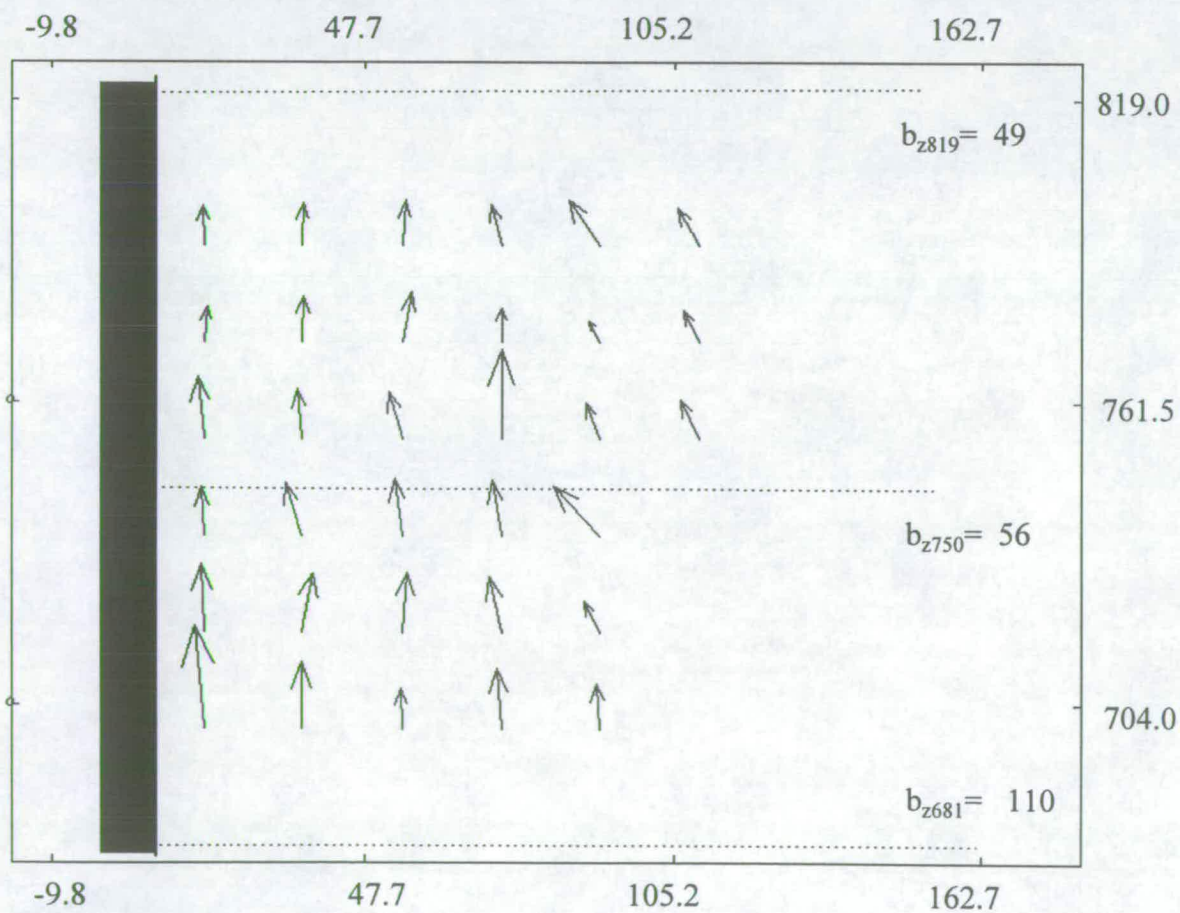
(REF.: D100H07)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

$b_{z819} = 49$

761.5

$b_{z750} = 56$

704.0

$b_{z681} = 110$

-9.8

47.7

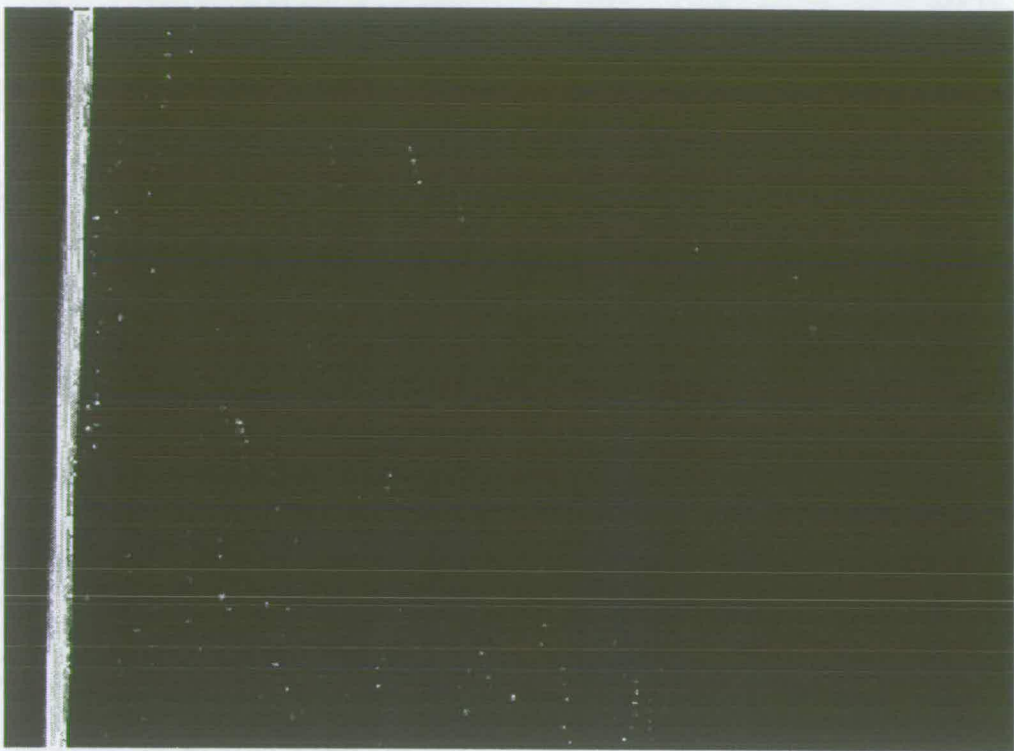
105.2

162.7

VECTOR MAP

IMAGE NO. 70

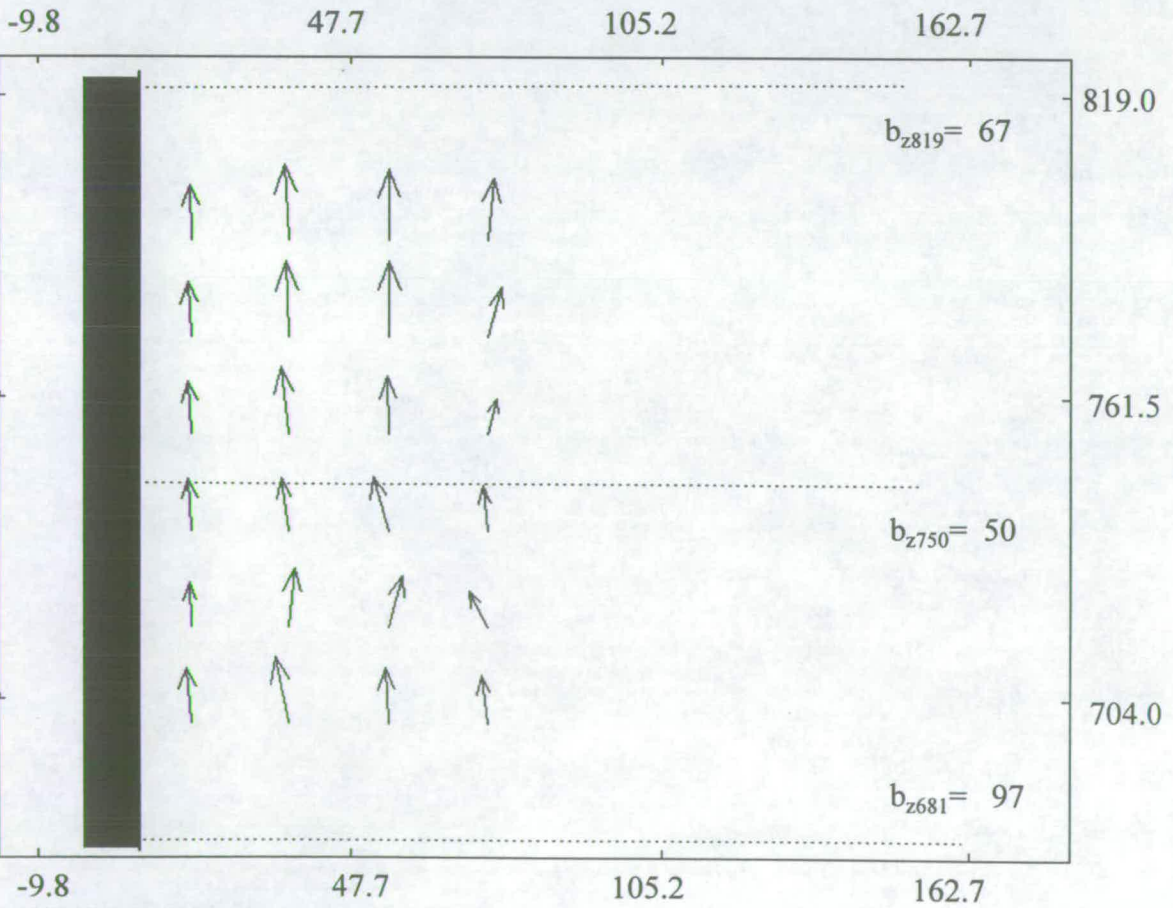
(REF.: D100H08)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

$b_{z819} = 67$

761.5

$b_{z750} = 50$

704.0

$b_{z681} = 97$

-9.8

47.7

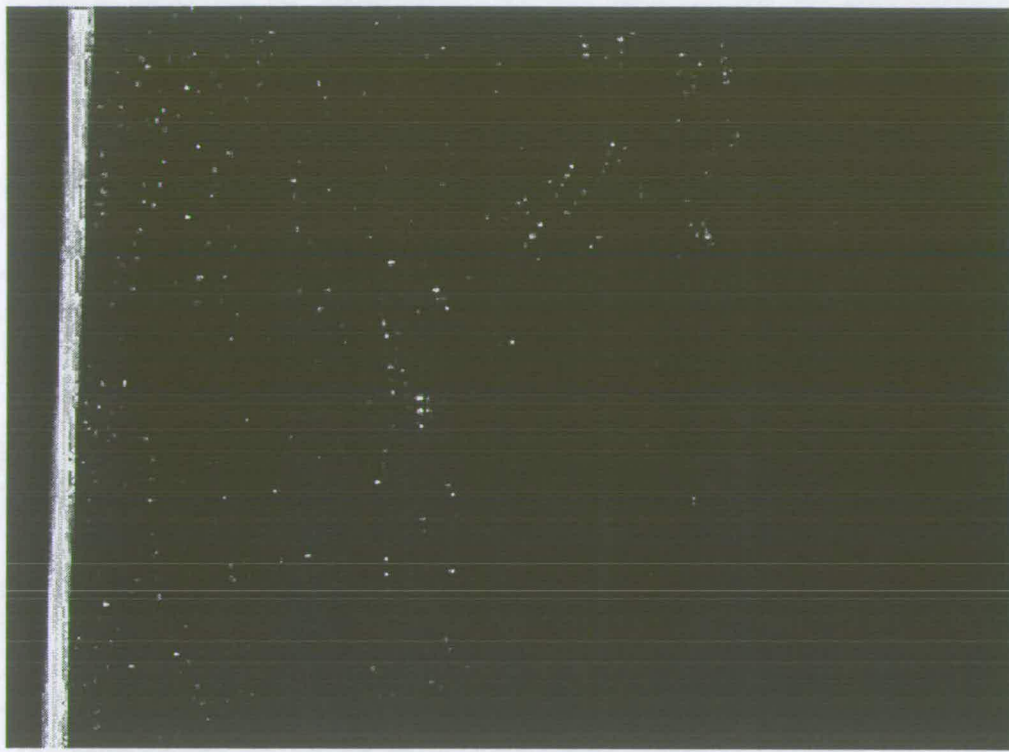
105.2

162.7

VECTOR MAP

IMAGE NO. 71

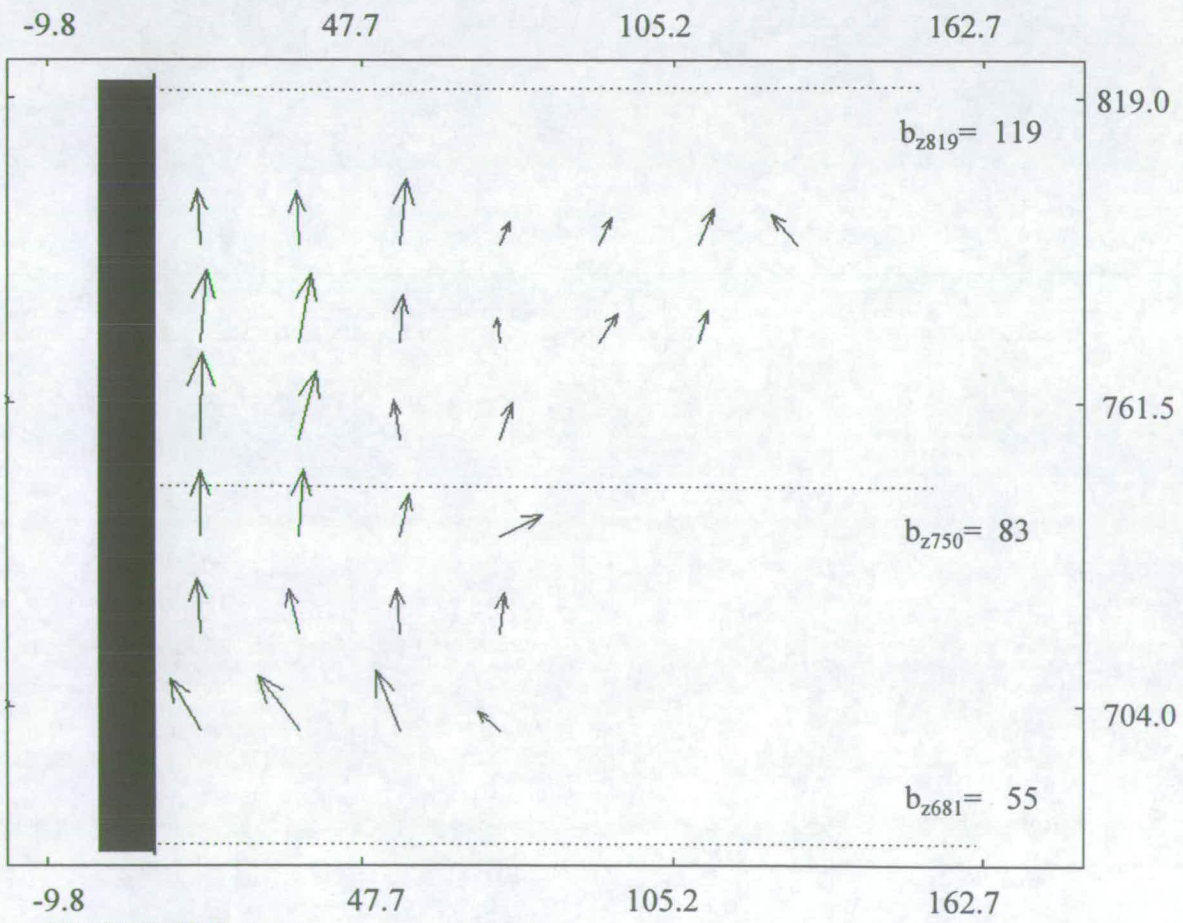
(REF.: D100H10/V14)



138 MM

184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 72

(REF.: D100H11)

Image 65 d100h01

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
17.8	791.4	0.034	0.004	-6.981	0.803	1.000
36.2	791.4	6.148	0.707	-11.595	1.333	1.478
54.6	791.4	3.598	0.414	-7.723	0.888	1.184
73.0	791.4	0.974	0.112	-8.242	0.948	1.018
91.4	791.4	-1.917	-0.220	-7.746	0.891	1.000
109.8	791.4	-1.238	-0.142	-7.818	0.899	1.240
17.8	773.0	-0.231	-0.027	-9.865	1.135	1.000
36.2	773.0	-0.985	-0.113	-9.081	1.044	1.000
54.6	773.0	2.029	0.233	-9.369	1.077	1.262
73.0	773.0	2.096	0.241	-8.867	1.020	1.000
91.4	773.0	-1.011	-0.116	-7.748	0.891	1.000
109.8	773.0	-1.147	-0.132	-7.985	0.918	1.044
17.8	754.6	0.156	0.018	-12.159	1.398	1.000
36.2	754.6	0.018	0.002	-10.581	1.217	1.287
54.6	754.6	0.960	0.110	-10.842	1.247	1.069
73.0	754.6	1.066	0.123	-12.716	1.462	1.000
91.4	754.6	-4.703	-0.541	-10.927	1.257	1.231
109.8	754.6	0.168	0.019	-6.923	0.796	1.000
17.8	736.2	0.347	0.040	-10.805	1.243	1.000
36.2	736.2	0.130	0.015	-8.972	1.032	1.259
54.6	736.2	1.702	0.196	-9.658	1.111	1.580
73.0	736.2	1.980	0.228	-9.715	1.117	1.010
91.4	736.2	3.034	0.349	-9.357	1.076	1.006
109.8	736.2	1.253	0.144	-8.276	0.952	1.061
17.8	717.8	-0.040	-0.005	-2.545	0.293	1.000
36.2	717.8	0.803	0.092	-6.359	0.731	1.242
54.6	717.8	4.017	0.462	-7.766	0.893	1.211
73.0	717.8	2.849	0.328	-8.019	0.922	1.000
91.4	717.8	6.358	0.731	-6.338	0.729	1.005
17.8	699.4	-0.344	-0.040	-8.521	0.980	1.000
36.2	699.4	0.109	0.013	-5.778	0.664	1.000
54.6	699.4	5.926	0.682	-9.817	1.129	1.133
73.0	699.4	7.487	0.861	-6.098	0.701	1.011
91.4	699.4	6.021	0.692	-6.846	0.787	1.008

## Image 66 d100h03

location		velocity	velocity	velocity	velocity	noise
x	y	x	y	x	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
17.8	791.4	-0.013	-0.002	-9.994	1.149	1.000
36.2	791.4	0.922	0.106	-9.990	1.149	1.000
54.6	791.4	1.263	0.145	-10.271	1.181	1.000
73.0	791.4	3.376	0.388	-6.576	0.756	1.106
91.4	791.4	2.098	0.241	-6.420	0.738	1.000
109.8	791.4	1.248	0.144	-5.405	0.622	1.561
17.8	773.0	0.708	0.081	-10.010	1.151	1.000
36.2	773.0	1.882	0.216	-9.924	1.141	1.000
54.6	773.0	1.886	0.217	-10.592	1.218	1.000
73.0	773.0	2.659	0.306	-8.171	0.940	1.044
91.4	773.0	1.715	0.197	-6.434	0.740	1.012
109.8	773.0	0.767	0.088	-5.200	0.598	1.323
128.2	773.0	0.427	0.049	-5.169	0.594	1.000
17.8	754.6	0.103	0.012	-9.808	1.128	1.000
36.2	754.6	0.837	0.096	-10.723	1.233	1.033
54.6	754.6	2.404	0.276	-10.100	1.161	1.147
73.0	754.6	3.073	0.353	-7.269	0.836	1.087
91.4	754.6	1.892	0.218	-7.768	0.893	1.000
109.8	754.6	-1.175	-0.135	-4.807	0.553	1.000
128.2	754.6	-0.439	-0.050	-4.924	0.566	1.000
17.8	736.2	-0.624	-0.072	-10.826	1.245	1.000
36.2	736.2	0.706	0.081	-12.450	1.432	1.000
54.6	736.2	2.106	0.242	-11.995	1.379	1.000
73.0	736.2	0.200	0.023	-10.993	1.264	1.000
91.4	736.2	0.378	0.044	-8.025	0.923	1.019
109.8	736.2	0.258	0.030	-5.969	0.686	1.000
128.2	736.2	-0.849	-0.098	-4.079	0.469	1.000
17.8	717.8	-0.177	-0.020	-12.206	1.404	1.000
36.2	717.8	-0.304	-0.035	-13.373	1.538	1.000
54.6	717.8	0.084	0.010	-14.378	1.654	1.000
73.0	717.8	-0.851	-0.098	-9.739	1.120	1.000
91.4	717.8	-0.309	-0.036	-7.944	0.914	1.000
109.8	717.8	0.368	0.042	-7.340	0.844	1.000
17.8	699.4	-0.492	-0.057	-11.846	1.362	1.000
36.2	699.4	-0.184	-0.021	-13.202	1.518	1.163
54.6	699.4	0.123	0.014	-14.309	1.646	1.054
73.0	699.4	0.840	0.097	-8.286	0.953	1.000
91.4	699.4	-1.195	-0.137	-7.467	0.859	1.000
109.8	699.4	3.624	0.417	-6.822	0.785	1.532

**Image 67 d100h05**

location		velocity		velocity		velocity		noise
x	y	x	y	x	y	x	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	pix/per	m/s	
17.8	791.4	0.257	0.030	-12.159	1.398			1.000
36.2	791.4	0.161	0.019	-9.613	1.105			1.017
54.6	791.4	0.410	0.047	-10.105	1.162			1.000
73.0	791.4	-7.766	-0.893	-5.800	0.667			1.037
91.4	791.4	-5.408	-0.622	-3.432	0.395			1.083
109.8	791.4	2.875	0.331	-5.953	0.685			1.028
128.2	791.4	-4.246	-0.488	-1.340	0.154			1.205
17.8	773.0	-1.488	-0.171	-6.433	0.740			1.000
36.2	773.0	0.570	0.066	-8.000	0.920			1.000
54.6	773.0	-0.658	-0.076	-8.178	0.940			1.025
17.8	754.6	0.018	0.002	-12.280	1.412			1.000
36.2	754.6	-0.083	-0.010	-9.342	1.074			1.055
54.6	754.6	-0.101	-0.012	-6.959	0.800			1.000
17.8	736.2	0.314	0.036	-11.691	1.344			1.000
36.2	736.2	-0.992	-0.114	-9.105	1.047			1.000
17.8	717.8	0.623	0.072	-11.756	1.352			1.000
36.2	717.8	-2.812	-0.323	-12.916	1.485			1.000
17.8	699.4	1.158	0.133	-11.246	1.293			1.000
36.2	699.4	1.361	0.157	-10.140	1.166			1.000

**Image 68 d100h06**

location		velocity		velocity		velocity		noise
x	y	x	y	x	y	x	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	pix/per	m/s	
17.8	809.8	0.152	0.018	-9.951	1.144			1.000
36.2	809.8	0.010	0.001	-4.040	0.465			1.000
54.6	809.8	0.335	0.038	-4.794	0.551			1.000
17.8	791.4	-0.674	-0.077	-9.144	1.052			1.000
36.2	791.4	-0.277	-0.032	-6.278	0.722			1.011
54.6	791.4	-0.293	-0.034	-4.982	0.573			1.000
17.8	773.0	-0.599	-0.069	-9.295	1.069			1.000
36.2	773.0	-0.229	-0.026	-7.785	0.895			1.085
17.8	754.6	1.233	0.142	-9.222	1.061			1.000
36.2	754.6	0.306	0.035	-8.266	0.951			1.050
17.8	736.2	0.431	0.050	-8.943	1.028			1.000
36.2	736.2	0.257	0.030	-7.045	0.810			1.000
17.8	717.8	0.102	0.012	-8.923	1.026			1.000
36.2	717.8	0.532	0.061	-8.284	0.953			1.000
17.8	699.4	1.821	0.209	-7.724	0.888			1.000
36.2	699.4	1.194	0.137	-7.556	0.869			1.000

**Image 69 d100h07**

location mm	location mm	velocity pix/per	velocity m/s	velocity pix/per	velocity m/s	noise snr
17.8	791.4	-0.036	-0.004	-6.543	0.752	1.000
36.2	791.4	-0.660	-0.076	-6.832	0.786	1.000
54.6	791.4	1.619	0.186	-6.970	0.802	1.000
73.0	791.4	1.103	0.127	-6.178	0.711	1.092
17.8	773.0	0.500	0.057	-8.114	0.933	1.000
36.2	773.0	1.410	0.162	-9.460	1.088	1.000
54.6	773.0	0.883	0.102	-6.289	0.723	1.074
73.0	773.0	0.961	0.111	-4.891	0.562	1.000
17.8	754.6	-2.340	-0.269	-7.854	0.903	1.000
36.2	754.6	-0.208	-0.024	-7.765	0.893	1.038
54.6	754.6	0.218	0.025	-3.599	0.414	1.000
73.0	754.6	0.813	0.093	-8.826	1.015	1.000
17.8	736.2	-0.715	-0.082	-12.868	1.480	1.000
36.2	736.2	-0.454	-0.052	-8.153	0.938	1.319
54.6	736.2	-0.856	-0.098	-4.827	0.555	1.000
73.0	736.2	0.110	0.013	-3.803	0.437	1.000
17.8	717.8	2.281	0.262	-9.823	1.130	1.000
36.2	717.8	0.494	0.057	-7.524	0.865	1.119
54.6	717.8	0.408	0.047	-5.818	0.669	1.000
73.0	717.8	-2.384	-0.274	-8.786	1.010	1.000
17.8	699.4	0.861	0.099	-7.769	0.893	1.000
36.2	699.4	-0.776	-0.089	-8.000	0.920	1.000
54.6	699.4	-1.764	-0.203	-4.852	0.558	1.000

**Image 70 d100h08**

location mm	location mm	x pix/per	y m/s	x pix/per	y m/s	snr
17.8	791.4	-0.106	-0.012	-4.248	0.488	1.000
36.2	791.4	0.209	0.024	-4.635	0.533	1.224
54.6	791.4	0.447	0.051	-4.838	0.556	1.034
73.0	791.4	-1.072	-0.123	-4.410	0.507	1.003
91.4	791.4	-3.256	-0.374	-4.965	0.571	1.769
109.8	791.4	-2.283	-0.262	-4.143	0.476	1.000
17.8	773.0	0.350	0.040	-3.759	0.432	1.000
36.2	773.0	0.168	0.019	-4.990	0.574	1.032
54.6	773.0	1.096	0.126	-5.336	0.614	1.000
73.0	773.0	0.002	0.000	-3.653	0.420	1.000
91.4	773.0	-1.035	-0.119	-2.312	0.266	1.000
109.8	773.0	-1.516	-0.174	-3.375	0.388	1.009
17.8	754.6	-0.635	-0.073	-6.712	0.772	1.000
36.2	754.6	-0.471	-0.054	-5.449	0.627	1.093
54.6	754.6	-1.452	-0.167	-5.076	0.584	1.000
73.0	754.6	0.023	0.003	-9.678	1.113	1.000
91.4	754.6	-1.437	-0.165	-3.931	0.452	1.000
109.8	754.6	-1.934	-0.222	-4.266	0.491	1.079
17.8	736.2	-0.235	-0.027	-5.213	0.599	1.000
36.2	736.2	-1.794	-0.206	-5.760	0.662	1.003
54.6	736.2	-6.910	-0.795	-6.077	0.699	1.033
73.0	736.2	-0.979	-0.113	-6.006	0.691	1.000
91.4	736.2	-4.953	-0.570	-5.428	0.624	1.093
17.8	717.8	4.848	0.557	-6.018	0.692	1.000
36.2	717.8	1.226	0.141	-6.402	0.736	1.315
54.6	717.8	0.602	0.069	-6.630	0.762	1.000
73.0	717.8	-1.230	-0.141	-6.055	0.696	1.000
91.4	717.8	-1.577	-0.181	-3.437	0.395	1.000
17.8	699.4	-0.961	-0.111	-11.207	1.289	1.000
36.2	699.4	2.736	0.315	-4.602	0.529	1.098
54.6	699.4	-0.081	-0.009	-4.417	0.508	1.000
73.0	699.4	-0.353	-0.041	-6.578	0.756	1.000
91.4	699.4	-0.279	-0.032	-4.955	0.570	1.000

**Image 71 d100h10**

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	y	x	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
17.8	791.4	-0.186	-0.021	-5.902	0.679	1.000
36.2	791.4	-0.262	-0.030	-5.755	0.662	1.000
54.6	791.4	0.804	0.092	-7.083	0.815	1.000
73.0	791.4	1.079	0.124	-2.440	0.281	1.000
91.4	791.4	1.363	0.157	-2.966	0.341	1.000
109.8	791.4	1.703	0.196	-3.940	0.453	1.000
128.2	791.4	-2.746	-0.316	-3.327	0.383	1.000
17.8	773.0	0.806	0.093	-7.831	0.901	1.000
36.2	773.0	1.398	0.161	-7.457	0.858	1.000
54.6	773.0	0.403	0.046	-5.054	0.581	1.054
73.0	773.0	-0.287	-0.033	-2.592	0.298	1.000
91.4	773.0	2.017	0.232	-3.112	0.358	1.000
109.8	773.0	1.023	0.118	-3.374	0.388	1.020
17.8	754.6	0.191	0.022	-9.459	1.088	1.000
36.2	754.6	1.986	0.228	-7.441	0.856	1.000
54.6	754.6	-0.599	-0.069	-4.226	0.486	1.000
73.0	754.6	1.452	0.167	-3.922	0.451	1.288
17.8	736.2	0.106	0.012	-7.048	0.811	1.000
36.2	736.2	0.653	0.075	-7.234	0.832	1.064
54.6	736.2	2.117	0.243	-11.019	1.267	1.000
73.0	736.2	4.706	0.541	-2.204	0.253	1.000
17.8	717.8	-0.247	-0.028	-5.837	0.671	1.000
36.2	717.8	-1.051	-0.121	-4.740	0.545	1.000
54.6	717.8	-0.243	-0.028	-4.964	0.571	1.000
73.0	717.8	0.532	0.061	-4.362	0.502	1.097
17.8	699.4	-3.052	-0.351	-5.666	0.652	1.000
36.2	699.4	-4.199	-0.483	-5.913	0.680	1.042
54.6	699.4	-2.350	-0.270	-6.585	0.757	1.000
73.0	699.4	-2.300	-0.265	-2.039	0.234	1.000

**Image 72 d100h11**

location	location	velocity	velocity	velocity	velocity	noise
mm	mm	pix/per	m/s	pix/per	m/s	snr
17.8	791.4	-0.096	-0.011	-5.940	0.683	1.000
36.2	791.4	-0.497	-0.057	-8.255	0.949	1.000
54.6	791.4	0.091	0.010	-7.754	0.892	1.130
73.0	791.4	0.702	0.081	-6.796	0.781	1.262
17.8	773.0	-0.234	-0.027	-5.846	0.672	1.000
36.2	773.0	-0.243	-0.028	-8.180	0.941	1.000
54.6	773.0	0.166	0.019	-8.305	0.955	1.000
73.0	773.0	1.649	0.190	-5.389	0.620	1.000
17.8	754.6	-0.270	-0.031	-5.560	0.639	1.000
36.2	754.6	-0.783	-0.090	-7.208	0.829	1.000
54.6	754.6	-0.070	-0.008	-6.230	0.716	1.114
73.0	754.6	1.148	0.132	-3.779	0.435	1.000
17.8	736.2	-0.174	-0.020	-5.618	0.646	1.000
36.2	736.2	-0.752	-0.086	-5.753	0.662	1.000
54.6	736.2	-1.560	-0.179	-5.992	0.689	1.000
73.0	736.2	-0.431	-0.050	-4.867	0.560	1.033
17.8	717.8	-0.112	-0.013	-4.667	0.537	1.000
36.2	717.8	0.729	0.084	-6.402	0.736	1.000
54.6	717.8	1.624	0.187	-5.577	0.641	1.000
73.0	717.8	-1.934	-0.222	-3.926	0.451	1.000
17.8	699.4	-0.494	-0.057	-5.998	0.690	1.053
36.2	699.4	-1.494	-0.172	-7.201	0.828	1.000
54.6	699.4	-0.202	-0.023	-6.015	0.692	1.023
73.0	699.4	-0.623	-0.072	-5.175	0.595	1.456

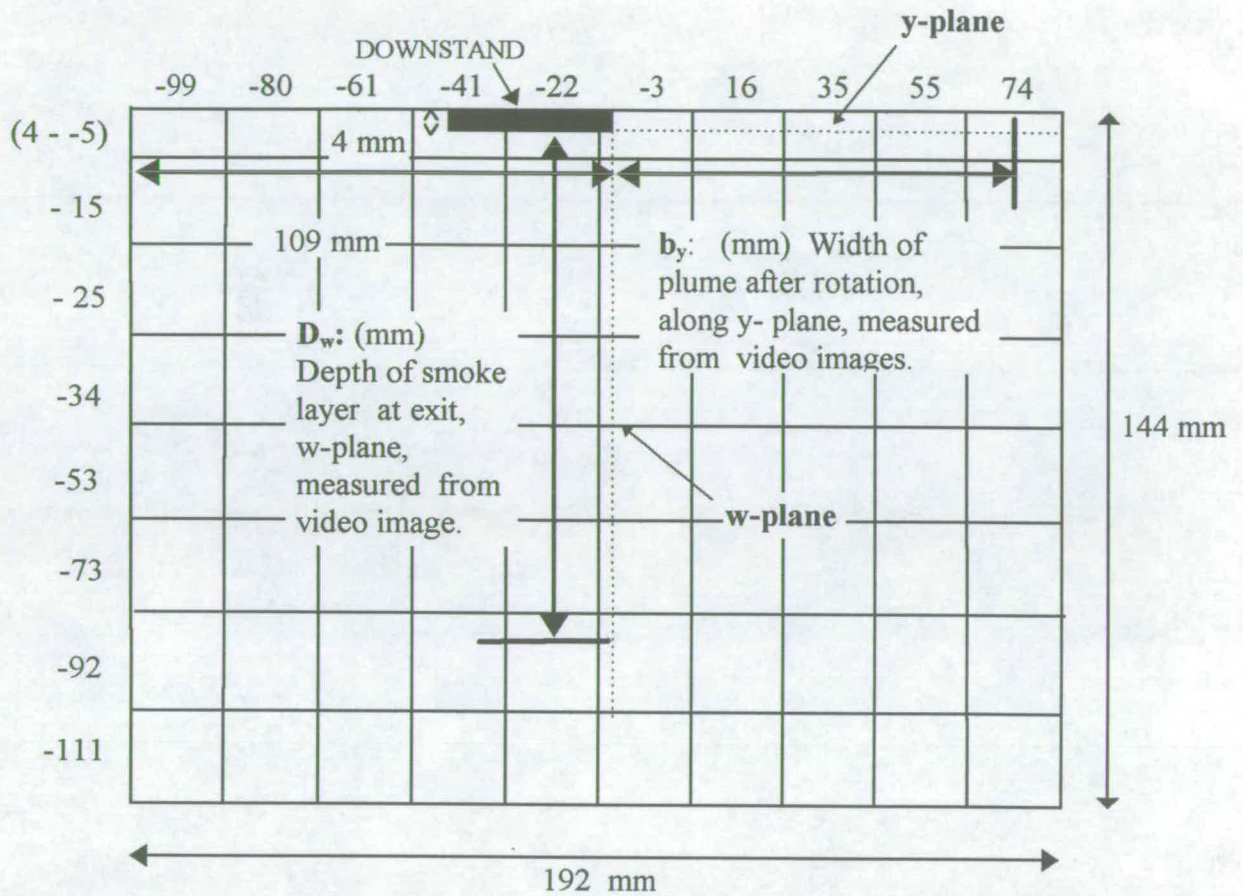




# IMAGES 73 TO 80:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

660 mm long compartment; 200 mm downstand;  
no balcony; 4.61 kw heat source

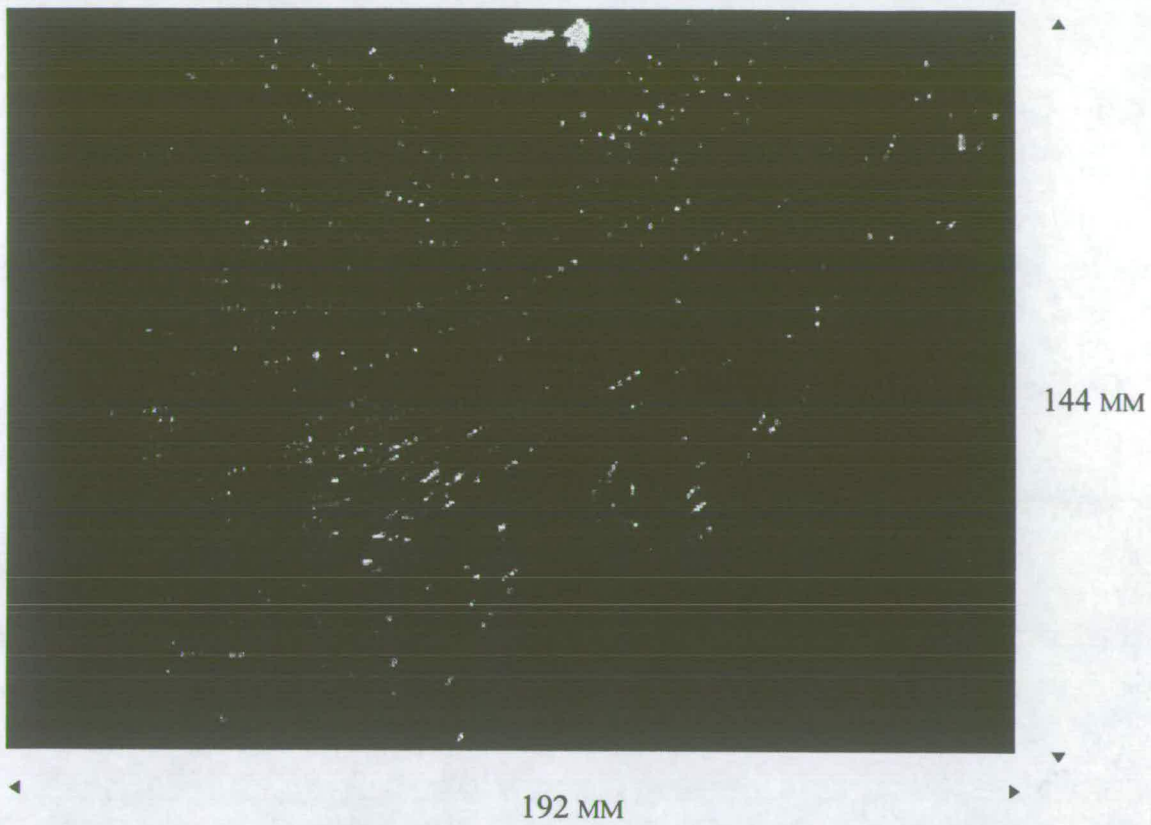


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 73 - 80

Interrogation areas 19.2 mm x 19.2 mm.

SCALE: 1 PIXEL = 0.600 MM

File references: d200w01, d200w02, d200w03, d200w04, d200w05, d200w06, d200w08, d200w09



ORIGINAL IMAGE

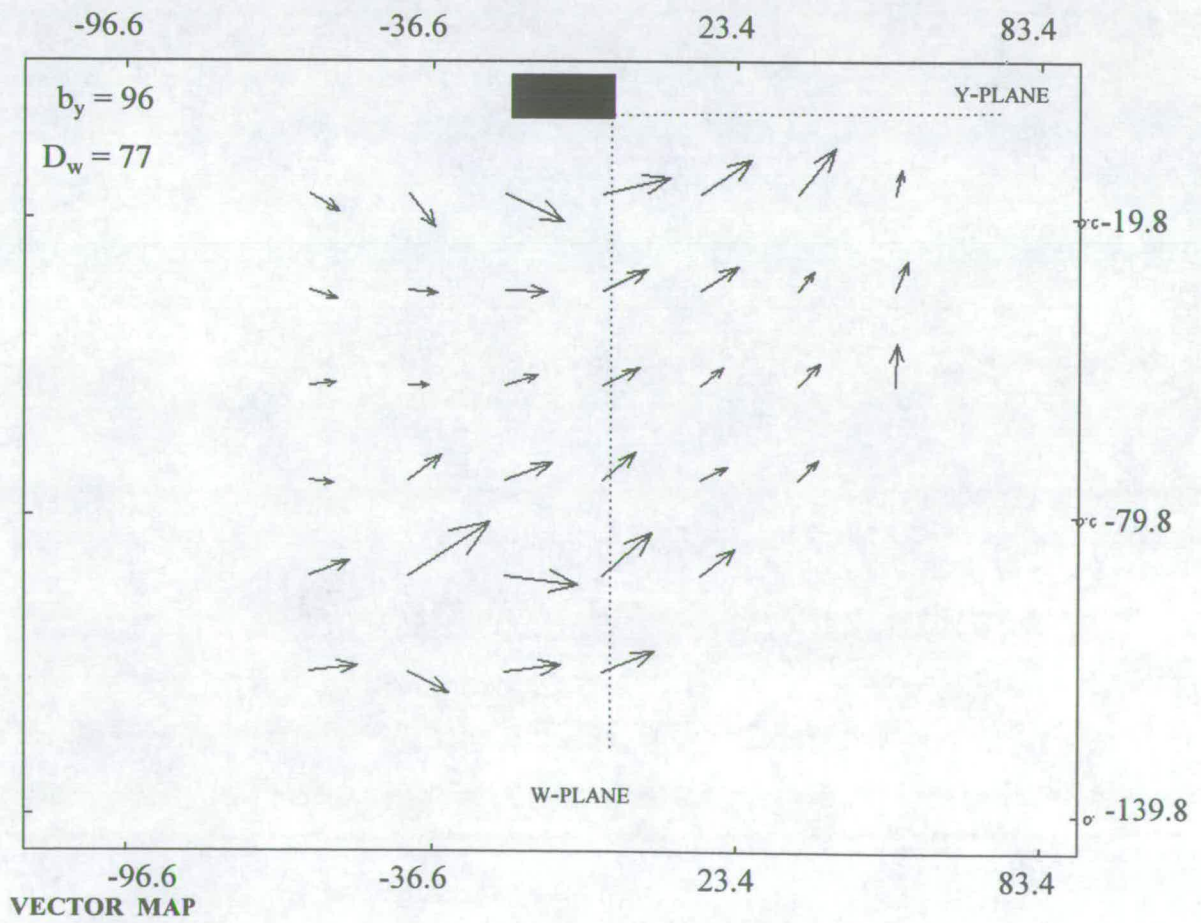
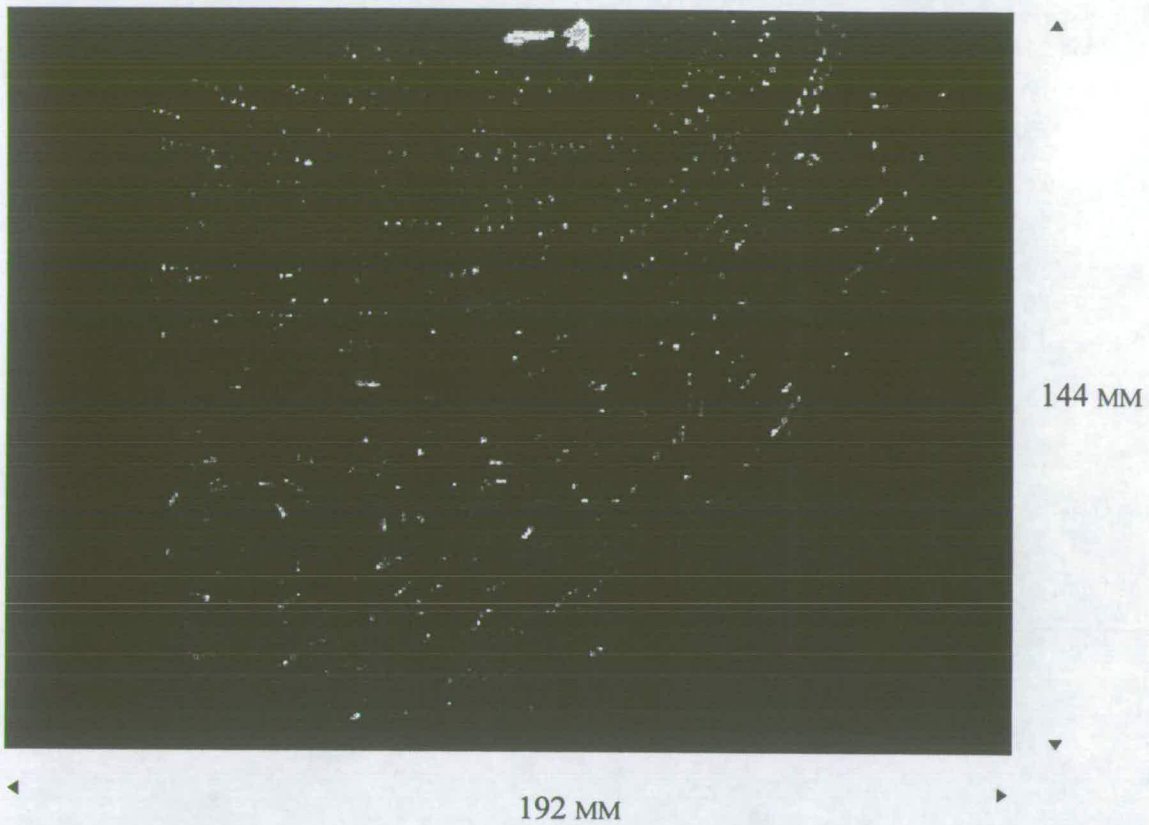


IMAGE NO. 73

(REF.: D200W01)



ORIGINAL IMAGE

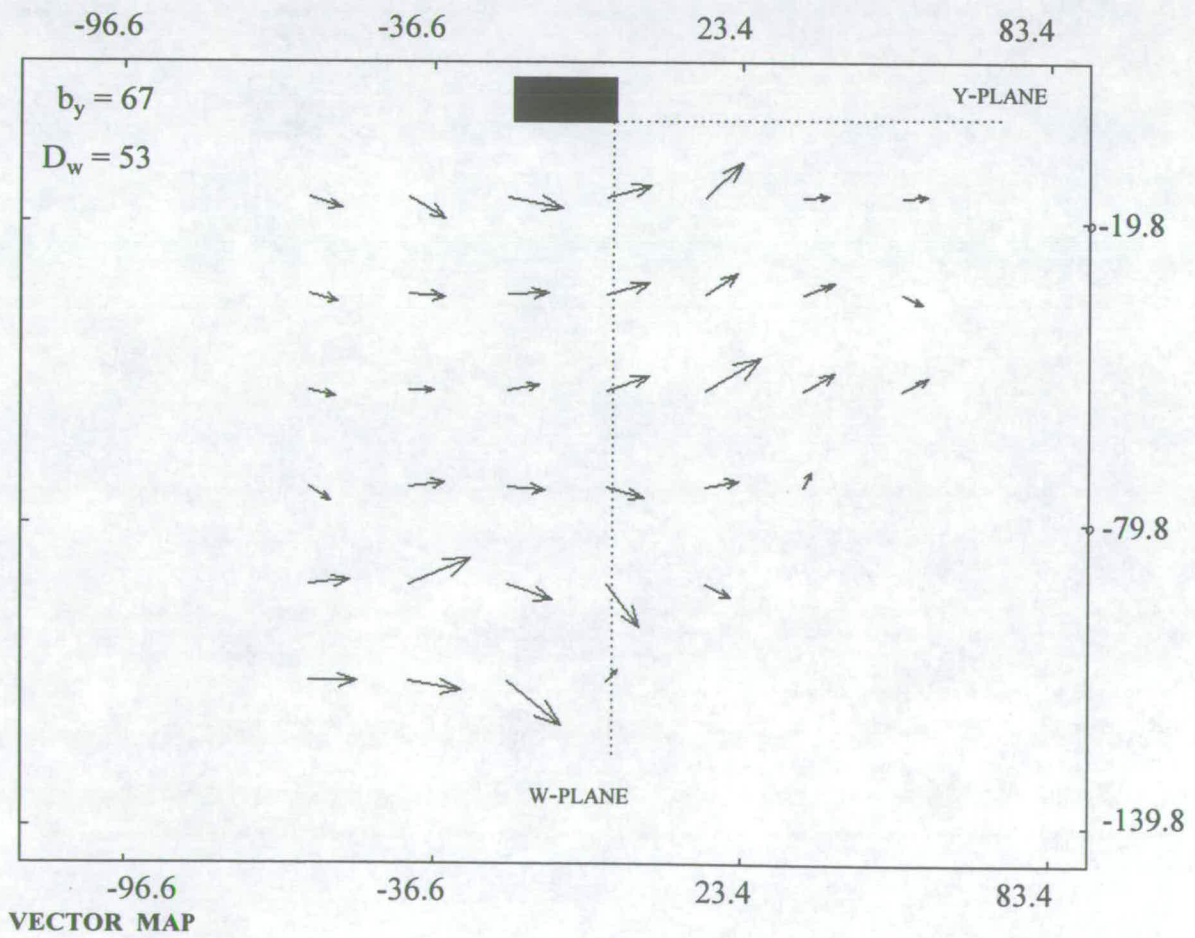
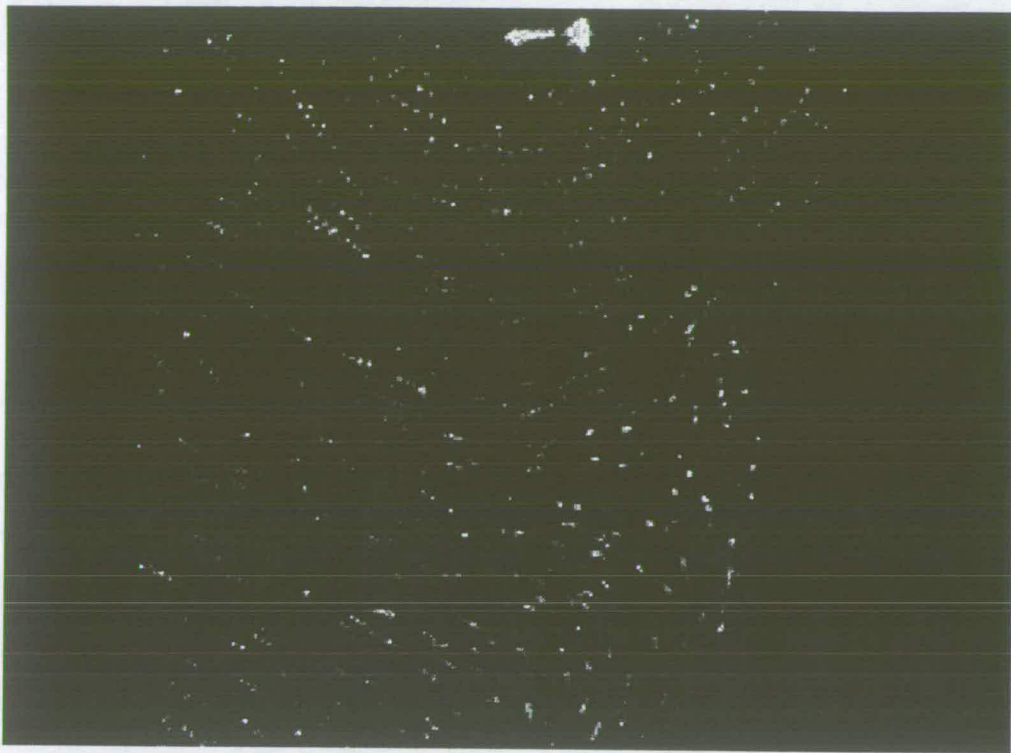


IMAGE NO. 74

(REF.: D200W02)



144 MM

192 MM

ORIGINAL IMAGE

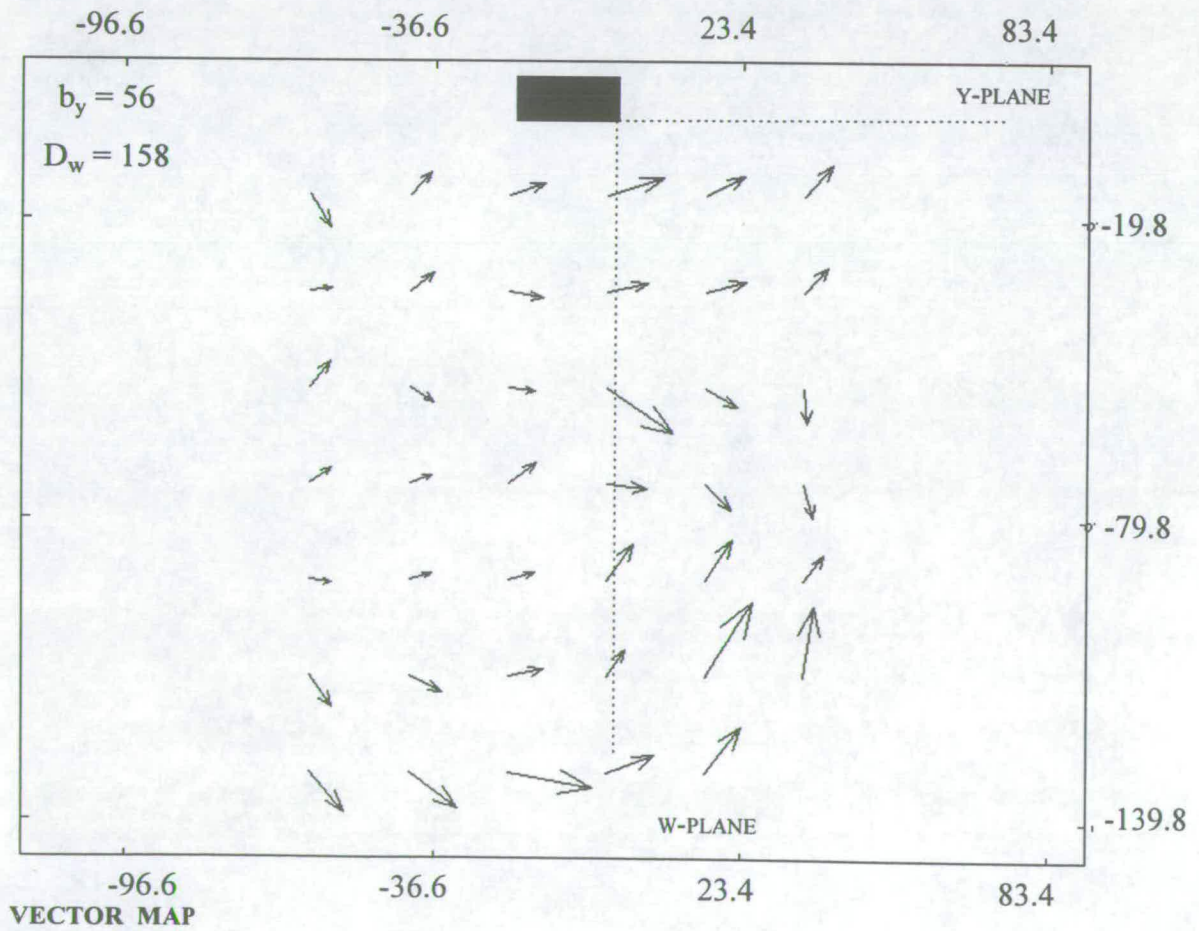


IMAGE NO. 75

(REF.: D200W03)



144 MM

192 MM

ORIGINAL IMAGE

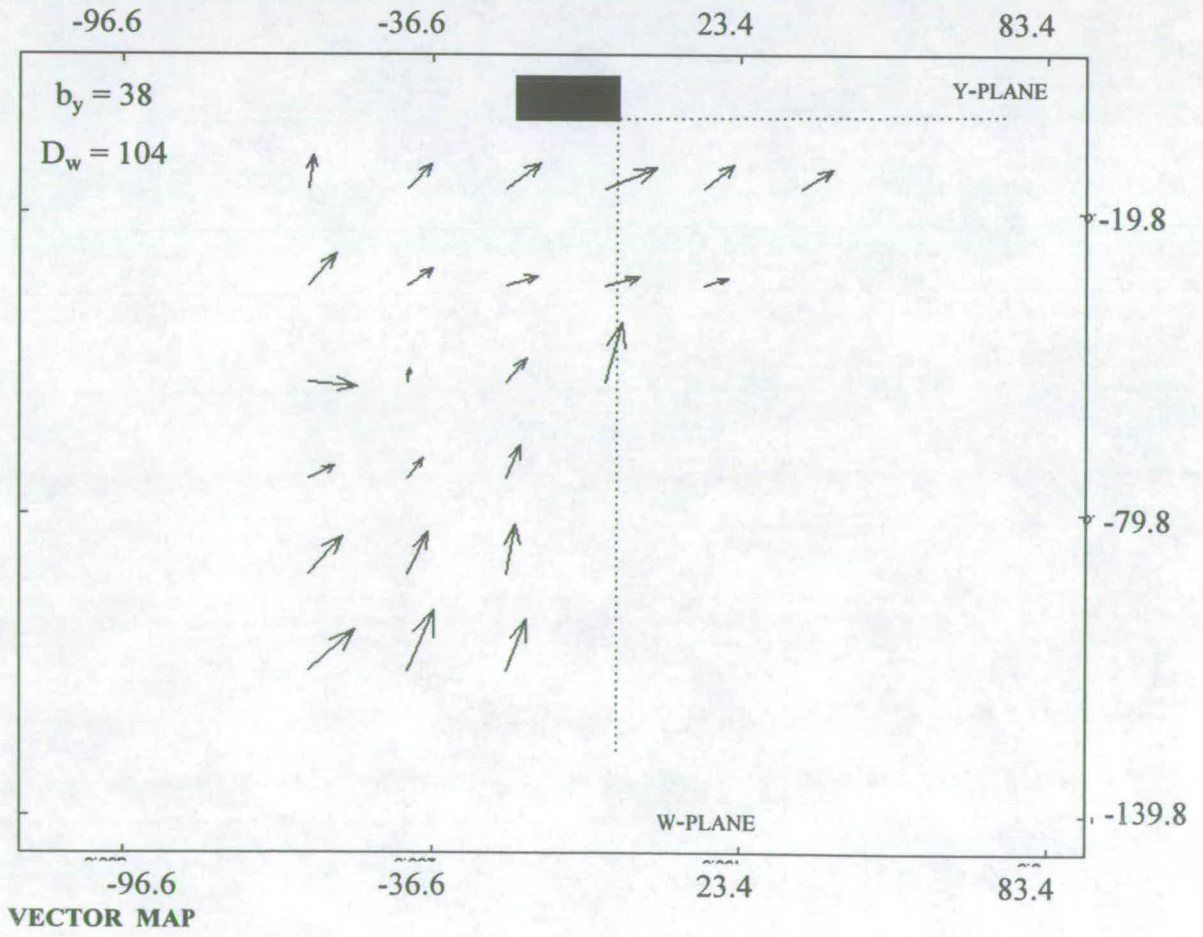
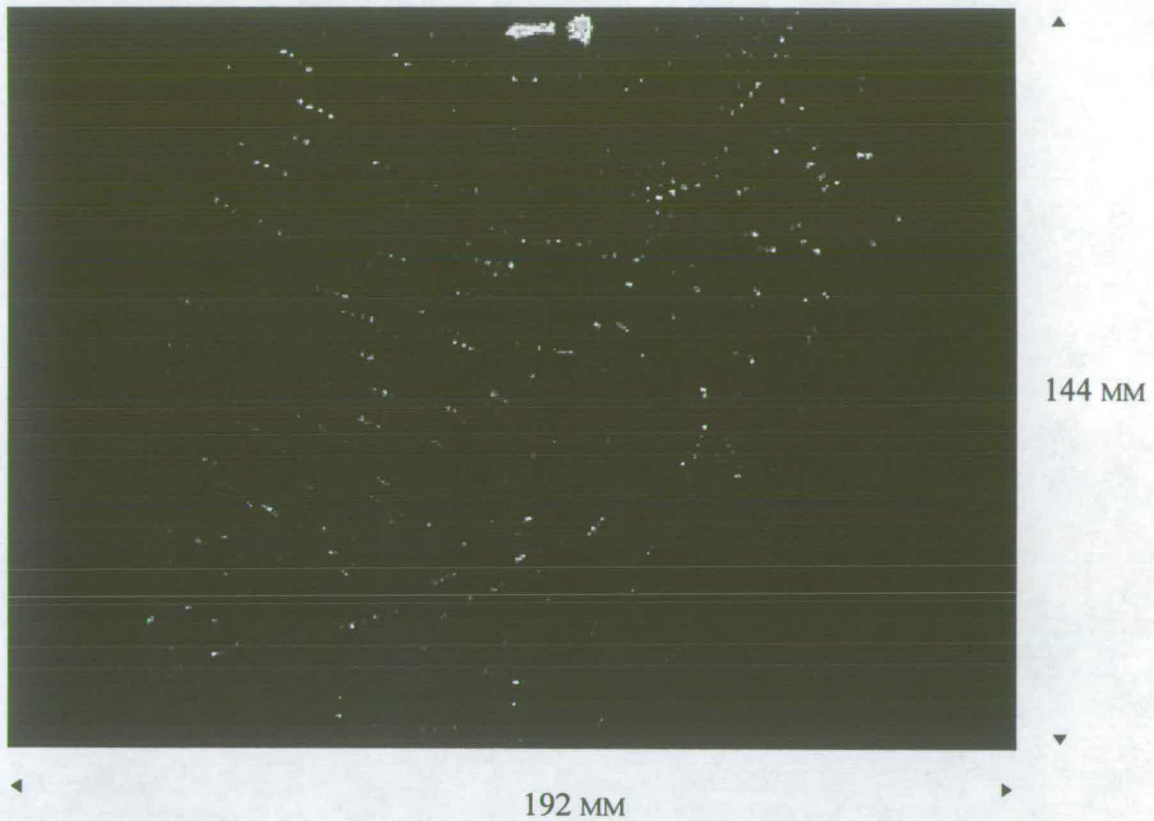


IMAGE NO. 76

(REF.: D200W04)



ORIGINAL IMAGE

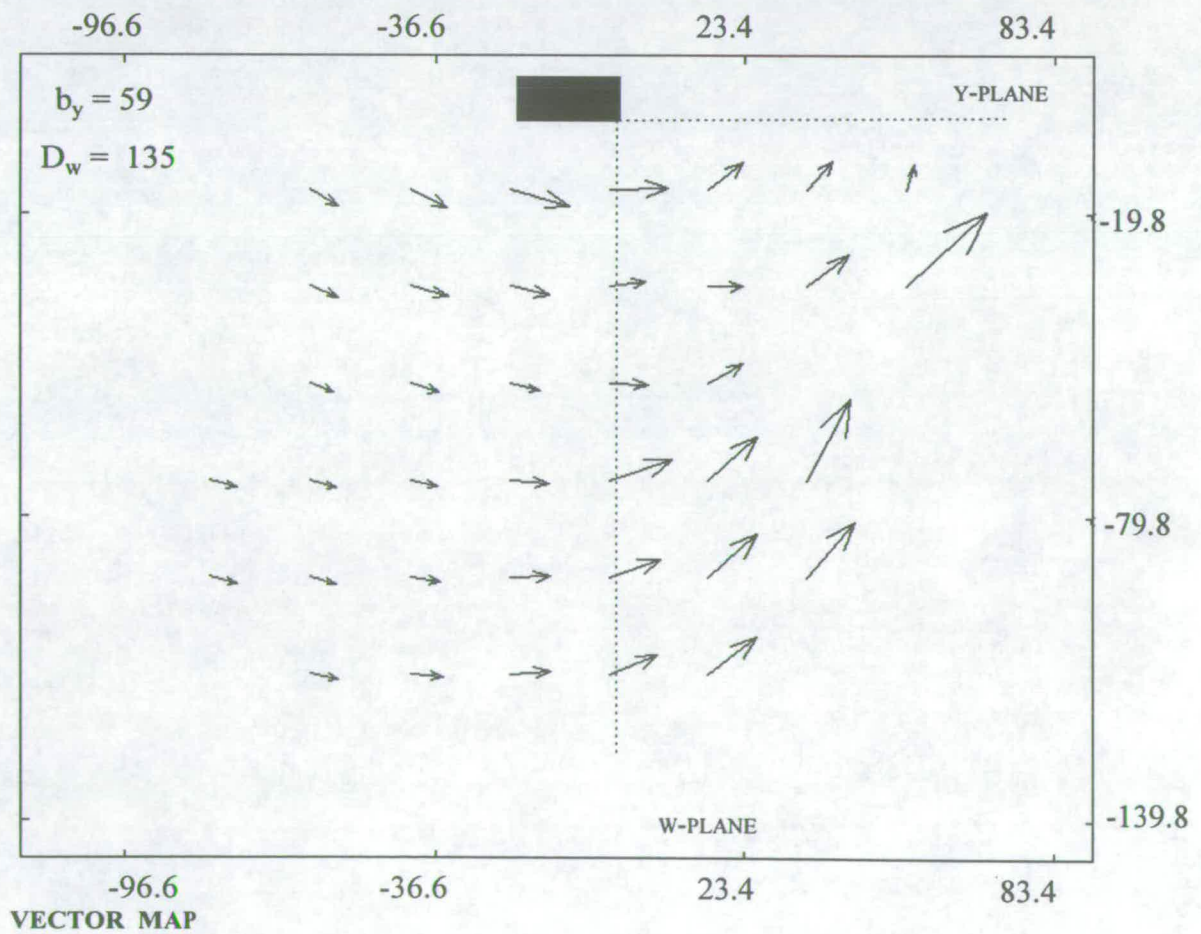
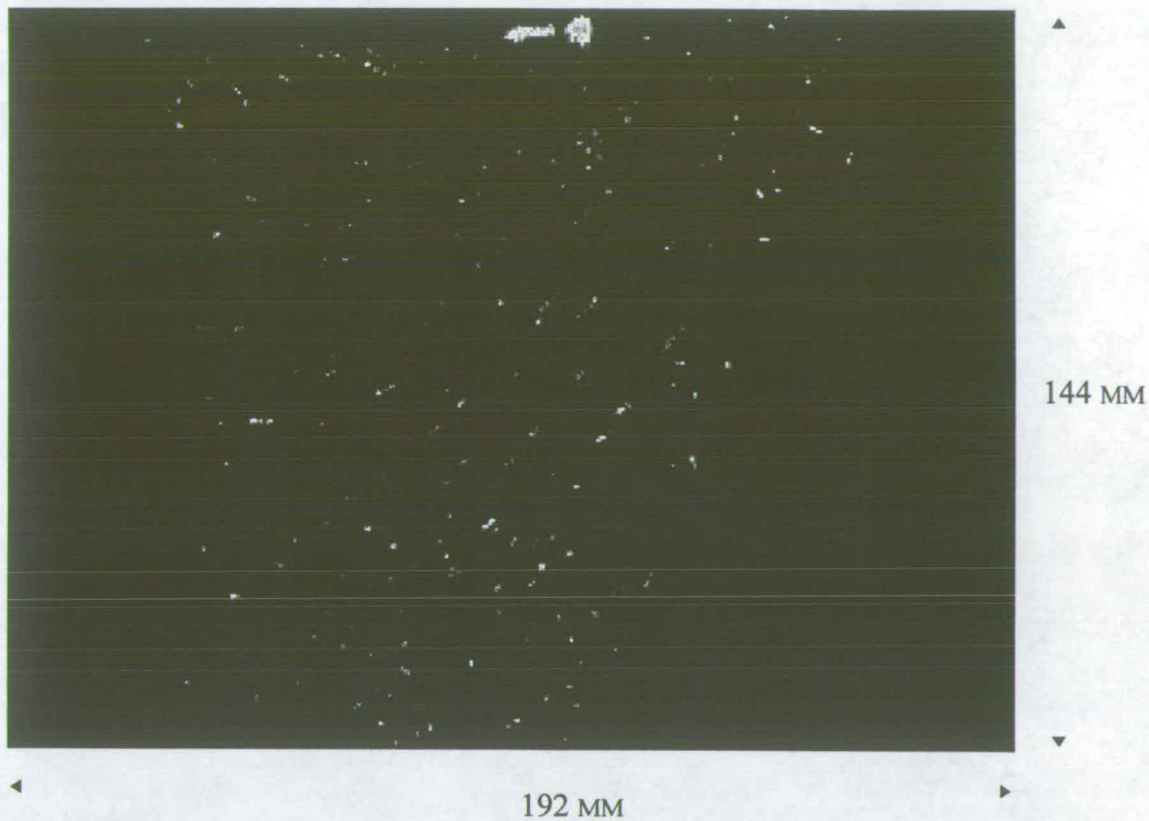


IMAGE NO. 77

(REF.: D200W05)



ORIGINAL IMAGE

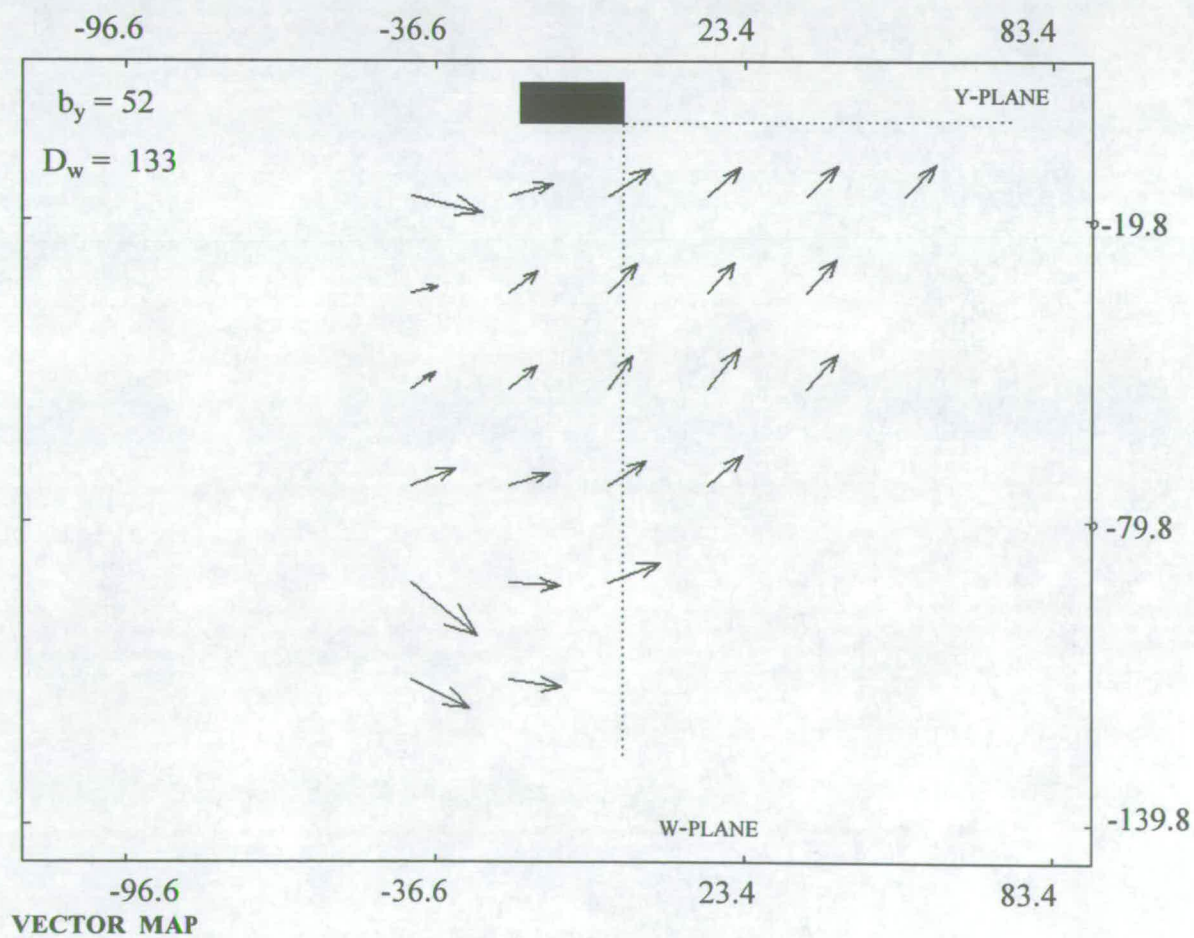
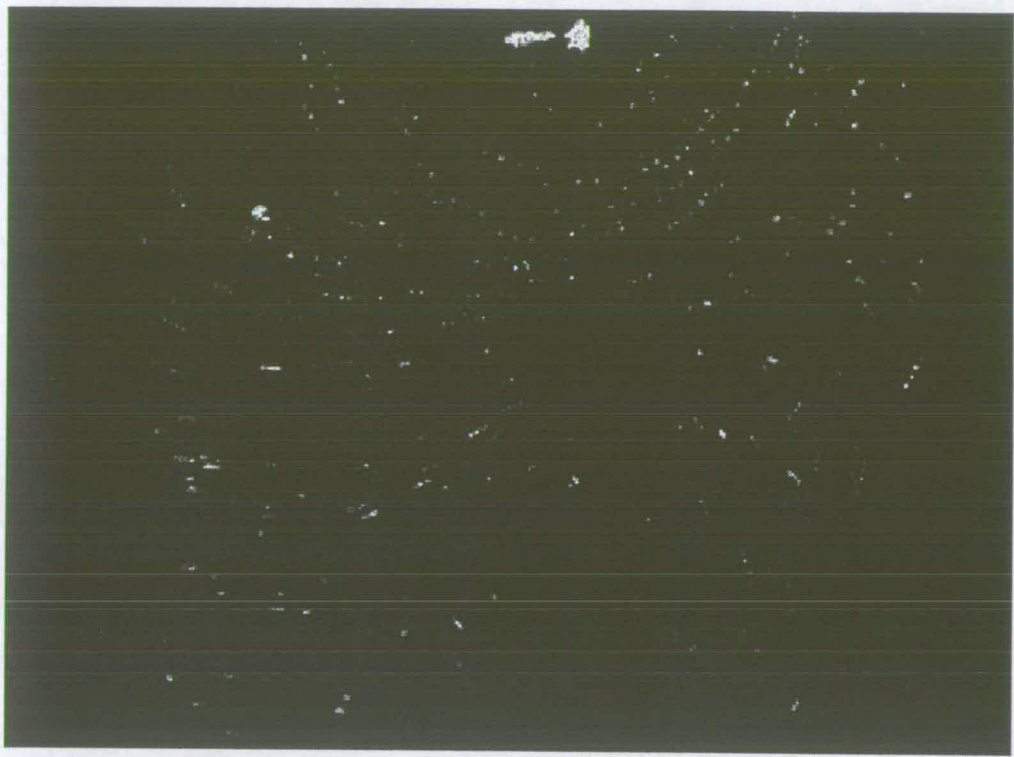


IMAGE No. 78

(REF.: D200W06)



144 MM

192 MM

ORIGINAL IMAGE

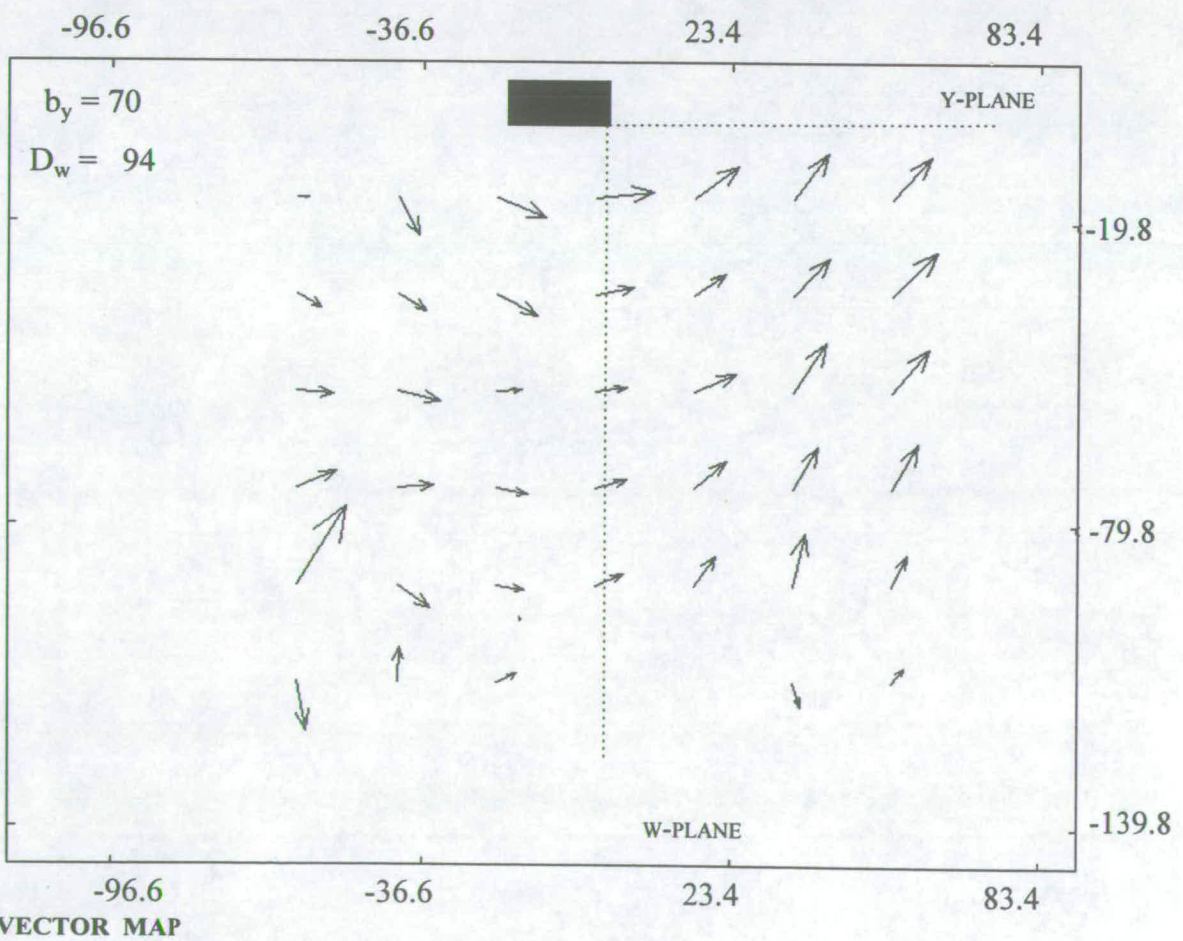
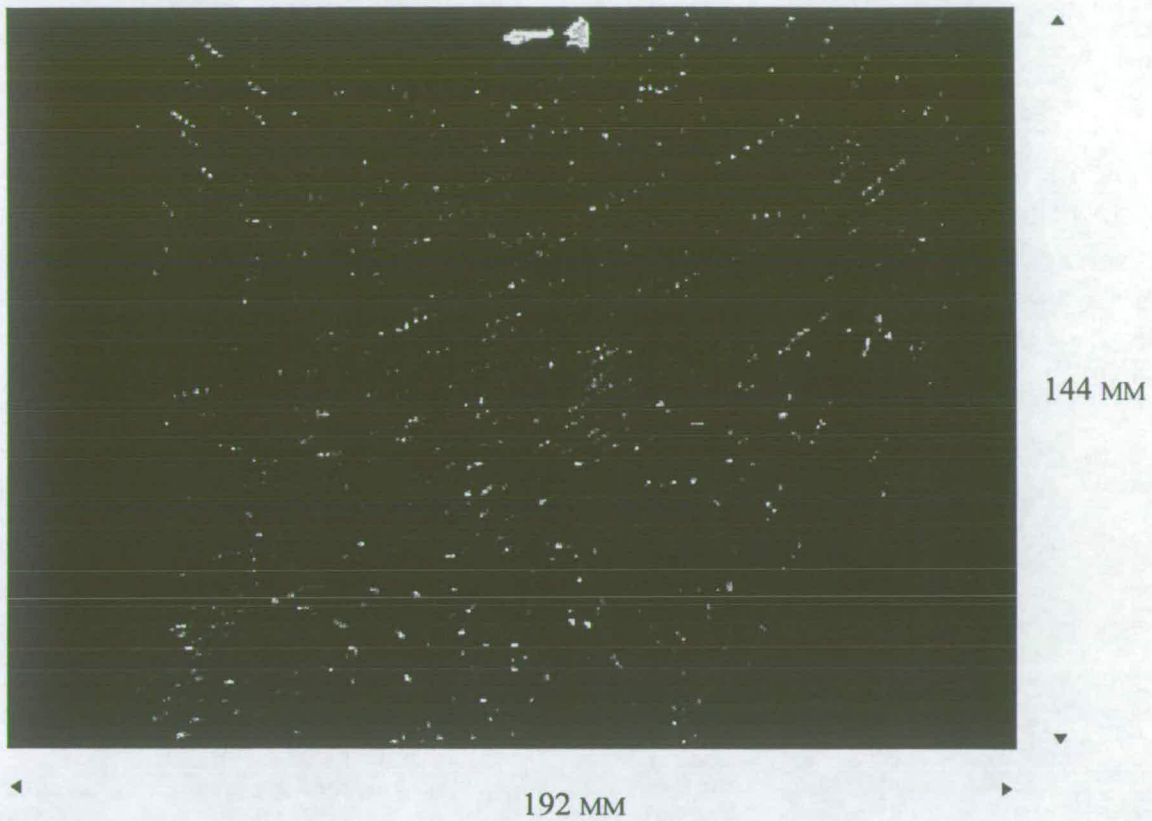
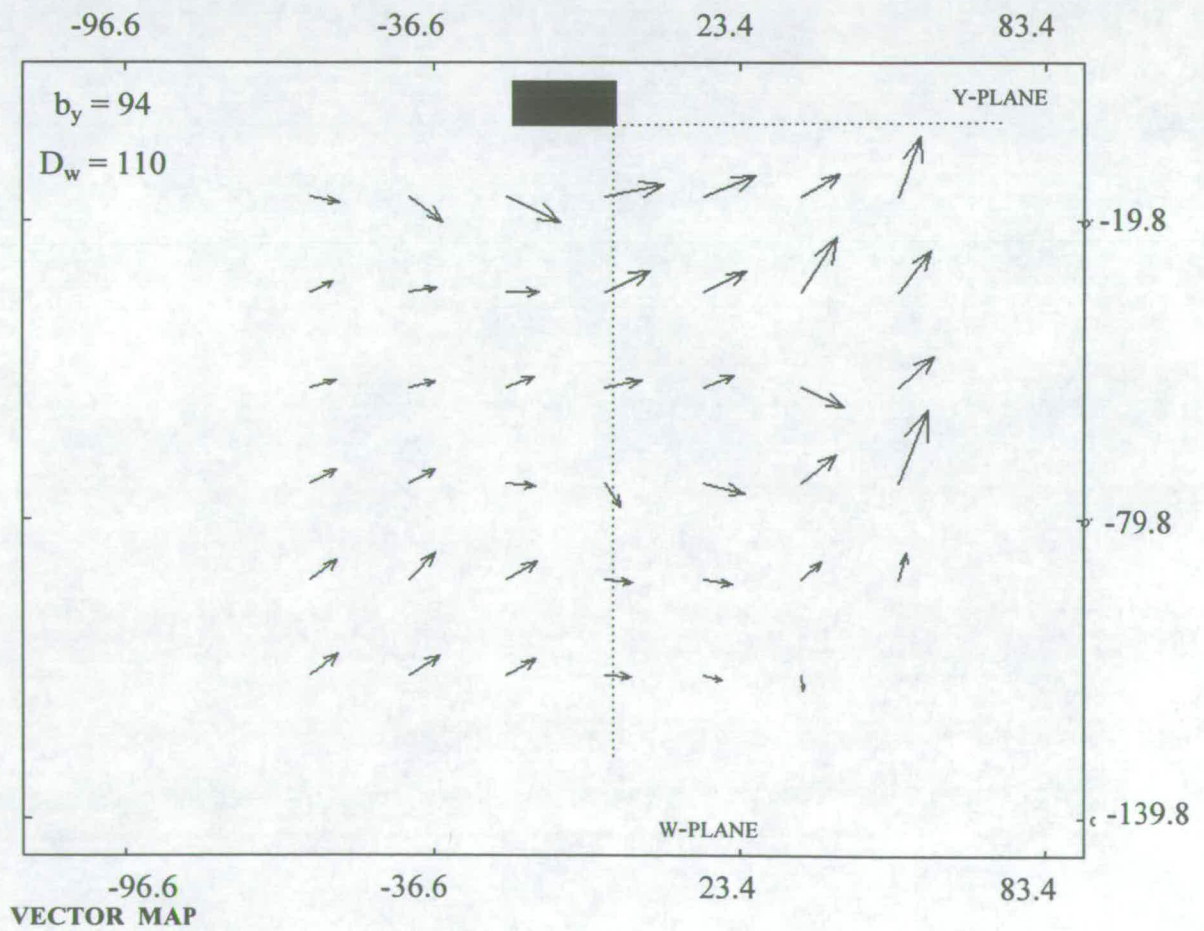


IMAGE NO. 79

(REF.: D200W08)



**ORIGINAL IMAGE**



**IMAGE No. 80**

(REF.: D200W09)

Image 73 d200w01

location		velocity		velocity		velocity	
x	y	x	x	y	y	velocity	
mm	mm	pix/per	m/s	pix/per	m/s	snr	
-3.0	-111.0	-5.629	0.675	2.413	0.290	1.282	
-22.2	-111.0	-6.146	0.738	0.877	0.105	1.132	
-41.4	-111.0	-4.379	0.525	-2.181	-0.262	1.254	
-60.6	-111.0	-5.086	0.610	0.830	0.100	1.017	
16.2	-91.8	-3.671	0.440	3.099	0.372	1.000	
-3.0	-91.8	-5.269	0.632	4.960	0.595	1.194	
-22.2	-91.8	-7.863	0.944	-0.840	-0.101	1.123	
-41.4	-91.8	-8.932	1.072	6.110	0.733	1.073	
-60.6	-91.8	-4.317	0.518	1.679	0.202	1.177	
35.4	-72.6	-2.151	0.258	2.496	0.300	1.080	
16.2	-72.6	-2.938	0.353	1.578	0.189	1.656	
-3.0	-72.6	-3.587	0.430	3.226	0.387	3.748	
-22.2	-72.6	-5.030	0.604	2.073	0.249	1.000	
-41.4	-72.6	-3.569	0.428	2.866	0.344	1.044	
-60.6	-72.6	-2.533	0.304	-0.289	-0.035	1.000	
54.6	-53.4	-0.097	0.012	4.906	0.589	1.000	
35.4	-53.4	-2.208	0.265	2.558	0.307	1.048	
16.2	-53.4	-2.452	0.294	2.119	0.254	1.184	
-3.0	-53.4	-3.916	0.470	2.053	0.246	1.630	
-22.2	-53.4	-3.396	0.407	1.276	0.153	1.649	
-41.4	-53.4	-2.126	0.255	0.071	0.009	1.456	
-60.6	-53.4	-2.710	0.325	0.374	0.045	1.169	
54.6	-34.2	-1.263	0.152	3.469	0.416	1.364	
35.4	-34.2	-1.585	0.190	2.268	0.272	1.358	
16.2	-34.2	-4.012	0.481	2.722	0.327	1.228	
-3.0	-34.2	-4.811	0.577	2.341	0.281	1.375	
-22.2	-34.2	-4.442	0.533	-0.087	-0.010	1.544	
-41.4	-34.2	-3.092	0.371	-0.311	-0.037	1.348	
-60.6	-34.2	-2.878	0.345	-0.888	-0.107	1.158	
54.6	-15.0	-0.574	0.069	2.885	0.346	1.000	
35.4	-15.0	-3.834	0.460	5.179	0.621	1.748	
16.2	-15.0	-5.444	0.653	3.919	0.470	1.763	
-3.0	-15.0	-7.264	0.872	1.880	0.226	1.085	
-22.2	-15.0	-6.303	0.756	-2.957	-0.355	1.221	
-41.4	-15.0	-2.760	0.331	-3.602	-0.432	1.380	
-60.6	-15.0	-3.032	0.364	-1.838	-0.221	1.006	

## Image 74 d200w02

location x mm	location y mm	velocity x pix/per	velocity x m/s	velocity y pix/per	velocity y m/s	velocity snr
-3.0	-111.0	-1.008	0.121	1.373	0.165	1.000
-22.2	-111.0	-5.716	0.686	-4.765	-0.572	1.079
-41.4	-111.0	-5.569	0.668	-0.874	-0.105	1.447
-60.6	-111.0	-5.100	0.612	0.014	0.002	1.174
16.2	-91.8	-2.746	0.330	-1.309	-0.157	1.038
-3.0	-91.8	-3.489	0.419	-4.613	-0.554	1.189
-22.2	-91.8	-4.691	0.563	-1.629	-0.195	1.012
-41.4	-91.8	-6.665	0.800	2.852	0.342	1.218
-60.6	-91.8	-4.258	0.511	0.503	0.060	1.031
35.4	-72.6	-0.701	0.084	1.792	0.215	1.000
16.2	-72.6	-3.588	0.431	0.818	0.098	1.159
-3.0	-72.6	-3.849	0.462	-1.069	-0.128	1.164
-22.2	-72.6	-3.956	0.475	-0.233	-0.028	1.045
-41.4	-72.6	-3.774	0.453	0.524	0.063	1.000
-60.6	-72.6	-2.202	0.264	-1.415	-0.170	1.061
54.6	-53.4	-2.721	0.326	1.525	0.183	1.000
35.4	-53.4	-3.312	0.397	2.144	0.257	1.000
16.2	-53.4	-5.913	0.710	3.671	0.441	1.190
-3.0	-53.4	-4.377	0.525	1.810	0.217	1.118
-22.2	-53.4	-3.308	0.397	0.793	0.095	1.606
-41.4	-53.4	-2.652	0.318	0.118	0.014	1.334
-60.6	-53.4	-2.780	0.334	-0.622	-0.075	1.000
54.6	-34.2	-2.117	0.254	-0.971	-0.117	1.148
35.4	-34.2	-3.192	0.383	1.423	0.171	1.011
16.2	-34.2	-3.334	0.400	2.430	0.292	1.384
-3.0	-34.2	-4.432	0.532	1.370	0.164	1.362
-22.2	-34.2	-4.224	0.507	0.270	0.032	1.638
-41.4	-34.2	-3.824	0.459	-0.218	-0.026	1.230
-60.6	-34.2	-2.955	0.355	-0.675	-0.081	1.777
54.6	-15.0	-2.582	0.310	0.241	0.029	1.000
35.4	-15.0	-2.577	0.309	0.267	0.032	1.000
16.2	-15.0	-3.953	0.474	3.907	0.469	1.429
-3.0	-15.0	-4.511	0.541	1.401	0.168	1.041
-22.2	-15.0	-5.788	0.695	-1.028	-0.123	1.318
-41.4	-15.0	-3.787	0.454	-2.209	-0.265	1.658
-60.6	-15.0	-3.335	0.400	-1.140	-0.137	1.644

Image 75 d200w03

location		velocity	velocity	velocity	velocity	velocity
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
16.2	-130.2	-3.936	0.472	5.279	0.633	1.010
-3.0	-130.2	-5.066	0.608	2.032	0.244	1.052
-22.2	-130.2	-9.147	1.098	-1.599	-0.192	1.009
-41.4	-130.2	-5.092	0.611	-3.899	-0.468	1.000
-60.6	-130.2	-3.600	0.432	-4.377	-0.525	1.395
35.4	-111.0	-1.045	0.125	7.864	0.944	1.000
16.2	-111.0	-5.096	0.612	8.430	1.012	1.038
-3.0	-111.0	-1.888	0.227	3.109	0.373	1.242
-22.2	-111.0	-3.683	0.442	0.834	0.100	1.344
-41.4	-111.0	-2.040	0.245	-9.707	-1.165	1.000
-60.6	-111.0	-2.227	0.267	-3.451	-0.414	1.015
35.4	-91.8	-2.126	0.255	2.929	0.352	1.142
16.2	-91.8	-2.945	0.353	4.646	0.558	1.170
-3.0	-91.8	-2.757	0.331	4.114	0.494	1.037
-22.2	-91.8	-2.823	0.339	0.891	0.107	1.000
-41.4	-91.8	-2.246	0.270	0.802	0.096	1.041
-60.6	-91.8	-2.208	0.265	-0.328	-0.039	1.000
35.4	-72.6	-0.846	0.102	-3.644	-0.437	1.000
16.2	-72.6	-2.686	0.322	-2.752	-0.330	1.146
-3.0	-72.6	-4.327	0.519	-0.371	-0.045	1.030
-22.2	-72.6	-2.949	0.354	2.439	0.293	1.031
-41.4	-72.6	-2.299	0.276	0.878	0.105	1.097
-60.6	-72.6	-2.224	0.267	1.682	0.202	1.140
35.4	-53.4	-0.305	0.037	-3.744	-0.449	1.000
16.2	-53.4	-3.355	0.403	-1.978	-0.237	1.000
-3.0	-53.4	-7.002	0.840	-4.953	-0.594	1.051
-22.2	-53.4	-2.792	0.335	-0.230	-0.028	1.618
-41.4	-53.4	-2.466	0.296	-1.570	-0.188	1.000
-60.6	-53.4	-2.058	0.247	2.834	0.340	1.094
35.4	-34.2	-2.370	0.284	2.998	0.360	1.090
16.2	-34.2	-4.285	0.514	1.317	0.158	1.015
-3.0	-34.2	-4.313	0.518	1.139	0.137	1.291
-22.2	-34.2	-3.550	0.426	-0.654	-0.078	1.575
-41.4	-34.2	-2.417	0.290	2.058	0.247	1.481
-60.6	-34.2	-1.382	0.166	8.853	1.062	1.000
35.4	-15.0	-2.971	0.357	3.649	0.438	1.485
16.2	-15.0	-4.143	0.497	2.272	0.273	1.014
-3.0	-15.0	-5.872	0.705	2.028	0.243	1.350
-22.2	-15.0	-3.735	0.448	1.387	0.166	1.057
-41.4	-15.0	-2.105	0.253	2.604	0.312	1.173
-60.6	-15.0	-2.150	0.258	-3.535	-0.424	1.000

Image 76 d200w04

location		velocity		velocity		velocity	
x	y	x	x	y	y	velocity	
mm	mm	pix/per	m/s	pix/per	m/s	snr	
-22.2	-111.0	-2.026	0.243	5.744	0.689	1.000	
-41.4	-111.0	-2.795	0.335	6.795	0.815	1.048	
-60.6	-111.0	-4.902	0.588	4.597	0.552	1.328	
-22.2	-91.8	-0.933	0.112	5.571	0.669	1.000	
-41.4	-91.8	-2.084	0.250	4.726	0.567	1.290	
-60.6	-91.8	-3.550	0.426	4.325	0.519	1.075	
-22.2	-72.6	-1.367	0.164	3.674	0.441	1.200	
-41.4	-72.6	-1.570	0.188	2.305	0.277	1.055	
-60.6	-72.6	-2.828	0.339	1.362	0.163	1.062	
-3.0	-53.4	-1.735	0.208	6.748	0.810	1.000	
-22.2	-53.4	-2.017	0.242	2.752	0.330	1.068	
-41.4	-53.4	-0.043	0.005	1.501	0.180	1.000	
-60.6	-53.4	-5.008	0.601	-0.387	-0.046	1.082	
16.2	-34.2	-2.520	0.302	0.975	0.117	1.585	
-3.0	-34.2	-3.644	0.437	1.014	0.122	1.495	
-22.2	-34.2	-3.311	0.397	1.133	0.136	1.724	
-41.4	-34.2	-2.595	0.311	1.911	0.229	1.334	
-60.6	-34.2	-2.922	0.351	3.629	0.436	1.314	
35.4	-15.0	-3.260	0.391	2.262	0.271	1.038	
16.2	-15.0	-3.303	0.396	2.798	0.336	1.516	
-3.0	-15.0	-5.382	0.646	2.373	0.285	1.501	
-22.2	-15.0	-3.636	0.436	2.996	0.359	1.099	
-41.4	-15.0	-2.403	0.288	2.763	0.332	1.176	
-60.6	-15.0	-0.354	0.042	3.714	0.446	1.000	

Image 77 d200w05

location		velocity		velocity	velocity	velocity
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
16.2	-111.0	-5.194	0.623	4.184	0.502	1.140
-3.0	-111.0	-5.143	0.617	2.208	0.265	1.136
-22.2	-111.0	-4.180	0.502	0.406	0.049	1.078
-41.4	-111.0	-3.356	0.403	-0.260	-0.031	1.567
-60.6	-111.0	-2.929	0.351	-0.582	-0.070	1.033
35.4	-91.8	-5.001	0.600	6.274	0.753	1.011
16.2	-91.8	-5.213	0.626	4.907	0.589	1.299
-3.0	-91.8	-5.485	0.658	2.105	0.253	1.089
-22.2	-91.8	-4.196	0.504	0.204	0.024	1.060
-41.4	-91.8	-3.155	0.379	-0.432	-0.052	1.287
-60.6	-91.8	-2.771	0.333	-0.693	-0.083	1.118
-79.8	-91.8	-2.745	0.329	-0.722	-0.087	1.000
35.4	-72.6	-4.509	0.541	9.101	1.092	1.189
16.2	-72.6	-5.167	0.620	4.974	0.597	1.000
-3.0	-72.6	-6.690	0.803	2.380	0.286	1.000
-22.2	-72.6	-4.035	0.484	-0.197	-0.024	1.000
-41.4	-72.6	-2.684	0.322	-0.564	-0.068	1.000
-60.6	-72.6	-2.727	0.327	-0.748	-0.090	1.200
-79.8	-72.6	-2.677	0.321	-0.793	-0.095	1.036
16.2	-53.4	-3.801	0.456	2.203	0.264	1.000
-3.0	-53.4	-4.033	0.484	-0.092	-0.011	1.049
-22.2	-53.4	-3.131	0.376	-0.793	-0.095	1.607
-41.4	-53.4	-2.968	0.356	-0.949	-0.114	1.635
-60.6	-53.4	-2.469	0.296	-0.854	-0.102	1.519
54.6	-34.2	-8.611	1.033	8.178	0.981	1.058
35.4	-34.2	-3.250	0.390	-4.825	-0.579	1.177
16.2	-34.2	-3.768	0.452	0.101	0.012	1.392
-3.0	-34.2	-3.769	0.452	0.528	0.063	1.247
-22.2	-34.2	-4.098	0.492	-0.956	-0.115	1.187
-41.4	-34.2	-3.858	0.463	-1.156	-0.139	1.282
-60.6	-34.2	-2.859	0.343	-1.217	-0.146	1.448
54.6	-15.0	-0.758	0.091	2.841	0.341	1.000
35.4	-15.0	-2.545	0.305	3.317	0.398	1.419
16.2	-15.0	-3.747	0.450	3.151	0.378	1.027
-3.0	-15.0	-6.227	0.747	0.200	0.024	1.820
-22.2	-15.0	-6.220	0.746	-1.693	-0.203	1.068
-41.4	-15.0	-3.722	0.447	-1.905	-0.229	1.561
-60.6	-15.0	-2.869	0.344	-1.809	-0.217	1.446

Image 78 d200w06

location		velocity		velocity		velocity	
x	y	x	x	y	y	velocity	
mm	mm	pix/per	m/s	pix/per	m/s	snr	
-22.2	-111.0	-5.594	0.671	-0.673	-0.081	1.052	
-41.4	-111.0	-6.236	0.748	-3.092	-0.371	1.111	
-3.0	-91.8	-5.373	0.645	2.282	0.274	1.027	
-22.2	-91.8	-5.378	0.645	-0.277	-0.033	1.008	
-41.4	-91.8	-7.042	0.845	-5.826	-0.699	1.444	
16.2	-72.6	-3.707	0.445	3.443	0.413	1.380	
-3.0	-72.6	-3.865	0.464	2.709	0.325	1.023	
-22.2	-72.6	-4.303	0.516	1.378	0.165	1.055	
-41.4	-72.6	-4.793	0.575	1.881	0.226	1.099	
35.4	-53.4	-3.290	0.395	3.993	0.479	1.050	
16.2	-53.4	-3.483	0.418	4.573	0.549	1.336	
-3.0	-53.4	-2.492	0.299	3.693	0.443	1.163	
-22.2	-53.4	-2.941	0.353	2.616	0.314	1.318	
-41.4	-53.4	-2.582	0.310	1.854	0.223	1.000	
35.4	-34.2	-3.012	0.361	3.716	0.446	1.183	
16.2	-34.2	-2.752	0.330	3.462	0.415	1.040	
-3.0	-34.2	-2.903	0.348	3.206	0.385	1.229	
-22.2	-34.2	-2.958	0.355	2.363	0.284	1.170	
-41.4	-34.2	-2.776	0.333	0.824	0.099	1.186	
54.6	-15.0	-3.173	0.381	3.551	0.426	1.148	
35.4	-15.0	-3.226	0.387	3.489	0.419	1.000	
16.2	-15.0	-3.488	0.419	3.254	0.390	1.114	
-3.0	-15.0	-4.344	0.521	3.132	0.376	1.338	
-22.2	-15.0	-4.502	0.540	1.438	0.173	1.050	
-41.4	-15.0	-7.657	0.919	-1.685	-0.202	1.042	

Image 79 d200w08

location		velocity	velocity	velocity	velocity	velocity
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
54.6	-111.0	-1.267	0.152	1.767	0.212	1.207
35.4	-111.0	-0.744	0.089	-2.529	-0.303	1.000
-22.2	-111.0	-2.034	0.244	1.013	0.122	1.009
-41.4	-111.0	-0.062	0.007	3.919	0.470	1.000
-60.6	-111.0	-0.857	0.103	-5.393	-0.647	1.000
54.6	-91.8	-1.553	0.186	3.647	0.438	1.033
35.4	-91.8	-1.188	0.143	5.957	0.715	1.000
16.2	-91.8	-2.199	0.264	3.433	0.412	1.019
-3.0	-91.8	-2.915	0.350	1.361	0.163	1.006
-22.2	-91.8	-2.873	0.345	-0.350	-0.042	1.048
-41.4	-91.8	-3.366	0.404	-2.379	-0.286	1.087
-60.6	-91.8	-5.156	0.619	8.775	1.053	1.027
54.6	-72.6	-2.691	0.323	5.060	0.607	1.174
35.4	-72.6	-2.646	0.317	4.695	0.563	1.154
16.2	-72.6	-3.359	0.403	3.145	0.377	1.000
-3.0	-72.6	-3.322	0.399	1.061	0.127	1.000
-22.2	-72.6	-3.270	0.392	-0.560	-0.067	1.436
-41.4	-72.6	-3.739	0.449	0.349	0.042	1.262
-60.6	-72.6	-4.159	0.499	1.898	0.228	1.383
54.6	-53.4	-3.843	0.461	4.925	0.591	1.088
35.4	-53.4	-3.464	0.416	5.612	0.673	1.037
16.2	-53.4	-4.349	0.522	2.071	0.248	1.289
-3.0	-53.4	-3.216	0.386	0.546	0.065	1.608
-22.2	-53.4	-2.575	0.309	0.169	0.020	1.440
-41.4	-53.4	-4.499	0.540	-1.007	-0.121	1.172
-60.6	-53.4	-3.781	0.454	-0.294	-0.035	1.140
54.6	-34.2	-4.708	0.565	4.997	0.600	1.000
35.4	-34.2	-3.774	0.453	4.300	0.516	1.053
16.2	-34.2	-3.167	0.380	2.439	0.293	1.099
-3.0	-34.2	-3.958	0.475	0.891	0.107	1.212
-22.2	-34.2	-4.312	0.517	-2.195	-0.263	1.564
-41.4	-34.2	-2.939	0.353	-1.708	-0.205	1.318
-60.6	-34.2	-2.474	0.297	-1.413	-0.170	1.010
54.6	-15.0	-4.046	0.486	4.779	0.573	1.000
35.4	-15.0	-3.507	0.421	5.124	0.615	1.000
16.2	-15.0	-4.576	0.549	3.613	0.434	1.059
-3.0	-15.0	-6.054	0.726	0.821	0.099	1.795
-22.2	-15.0	-5.047	0.606	-2.080	-0.250	1.094
-41.4	-15.0	-2.144	0.257	-4.139	-0.497	1.000
-60.6	-15.0	-1.021	0.123	0.000	0.000	1.000

## Image 80 d200w09

location	location	velocity	velocity	velocity	velocity	velocity
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
35.4	-111.0	-0.160	0.019	-1.551	-0.186	1.137
16.2	-111.0	-1.973	0.237	-0.471	-0.057	1.031
-3.0	-111.0	-2.736	0.328	-0.074	-0.009	1.041
-22.2	-111.0	-3.124	0.375	1.871	0.225	1.066
-41.4	-111.0	-3.262	0.391	2.323	0.279	1.019
-60.6	-111.0	-2.988	0.359	2.355	0.283	1.213
54.6	-91.8	-0.782	0.094	3.002	0.360	1.000
35.4	-91.8	-2.074	0.249	2.050	0.246	1.034
16.2	-91.8	-3.006	0.361	-0.487	-0.058	1.184
-3.0	-91.8	-2.893	0.347	-0.308	-0.037	1.217
-22.2	-91.8	-3.244	0.389	2.101	0.252	1.066
-41.4	-91.8	-2.777	0.333	3.163	0.380	1.011
-60.6	-91.8	-2.821	0.339	2.201	0.264	1.000
54.6	-72.6	-3.032	0.364	8.302	0.996	1.015
35.4	-72.6	-3.825	0.459	3.318	0.398	1.084
16.2	-72.6	-4.451	0.534	-1.043	-0.125	1.103
-3.0	-72.6	-1.647	0.198	-2.560	-0.307	1.000
-22.2	-72.6	-3.082	0.370	-0.297	-0.036	1.004
-41.4	-72.6	-2.721	0.327	1.614	0.194	1.132
-60.6	-72.6	-2.737	0.328	1.611	0.193	1.000
54.6	-53.4	-3.669	0.440	3.602	0.432	1.269
35.4	-53.4	-4.563	0.548	-2.017	-0.242	1.000
16.2	-53.4	-3.255	0.391	1.468	0.176	1.907
-3.0	-53.4	-3.868	0.464	0.877	0.105	1.640
-22.2	-53.4	-2.998	0.360	1.226	0.147	2.029
-41.4	-53.4	-2.707	0.325	0.760	0.091	1.645
-60.6	-53.4	-2.676	0.321	0.955	0.115	1.000
54.6	-34.2	-3.417	0.410	4.746	0.570	1.038
35.4	-34.2	-3.822	0.459	6.174	0.741	1.309
16.2	-34.2	-4.566	0.548	2.335	0.280	1.256
-3.0	-34.2	-4.729	0.567	2.495	0.299	1.533
-22.2	-34.2	-3.408	0.409	0.010	0.001	1.764
-41.4	-34.2	-2.910	0.349	0.582	0.070	1.726
-60.6	-34.2	-2.480	0.298	1.240	0.149	1.032
54.6	-15.0	-2.245	0.269	6.745	0.809	1.217
35.4	-15.0	-4.147	0.498	2.559	0.307	1.337
16.2	-15.0	-5.575	0.669	2.380	0.286	1.118
-3.0	-15.0	-6.192	0.743	1.391	0.167	1.350
-22.2	-15.0	-5.742	0.689	-2.712	-0.325	1.114
-41.4	-15.0	-3.546	0.426	-2.674	-0.321	1.163
-60.6	-15.0	-3.003	0.360	-0.627	-0.075	1.000





mm	mm	lm73	lm74	lm75	lm76	lm77	lm78	lm79	lm80	mean
-3.0	-15.0	0.226	0.168	0.243	0.285	0.024	0.376	0.099	0.167	0.198
-3.0	-34.2	0.281	0.164	0.137	0.122	0.063	0.385	0.107	0.299	0.195
-3.0	-53.4	0.246	0.217	-0.594	0.810	-0.011	0.443	0.065	0.105	0.160
-3.0	-72.6	0.387	-0.128	-0.045	0.000	0.286	0.325	0.127	-0.307	0.081
-3.0	-91.8	0.595	-0.554	0.494	0.000	0.253	0.274	0.163	-0.037	0.149
-3.0	-111.0	0.290	0.165	0.373	0.000	0.265	0.000	0.000	-0.009	0.135
-3.0	-130.2	0.000	0.000	0.244	0.000	0.000	0.000	0.000	0.000	0.030

mm	mm	lm73	lm74	lm75	lm76	lm77	lm78	lm79	lm80	mean
16.2	-15.0	0.470	0.469	0.273	0.336	0.378	0.390	0.434	0.286	0.379
16.2	-34.2	0.327	0.292	0.158	0.117	0.012	0.415	0.293	0.280	0.237
16.2	-53.4	0.254	0.441	-0.237	0.000	0.264	0.549	0.248	0.176	0.212
16.2	-72.6	0.189	0.098	-0.330	0.000	0.597	0.413	0.377	-0.125	0.152
16.2	-91.8	0.372	-0.157	0.558	0.000	0.589	0.000	0.412	-0.058	0.214
16.2	-111.0	0.000	0.000	1.012	0.000	0.502	0.000	0.000	-0.057	0.182
16.2	-130.2	0.000	0.000	0.633	0.000	0.000	0.000	0.000	0.000	0.079

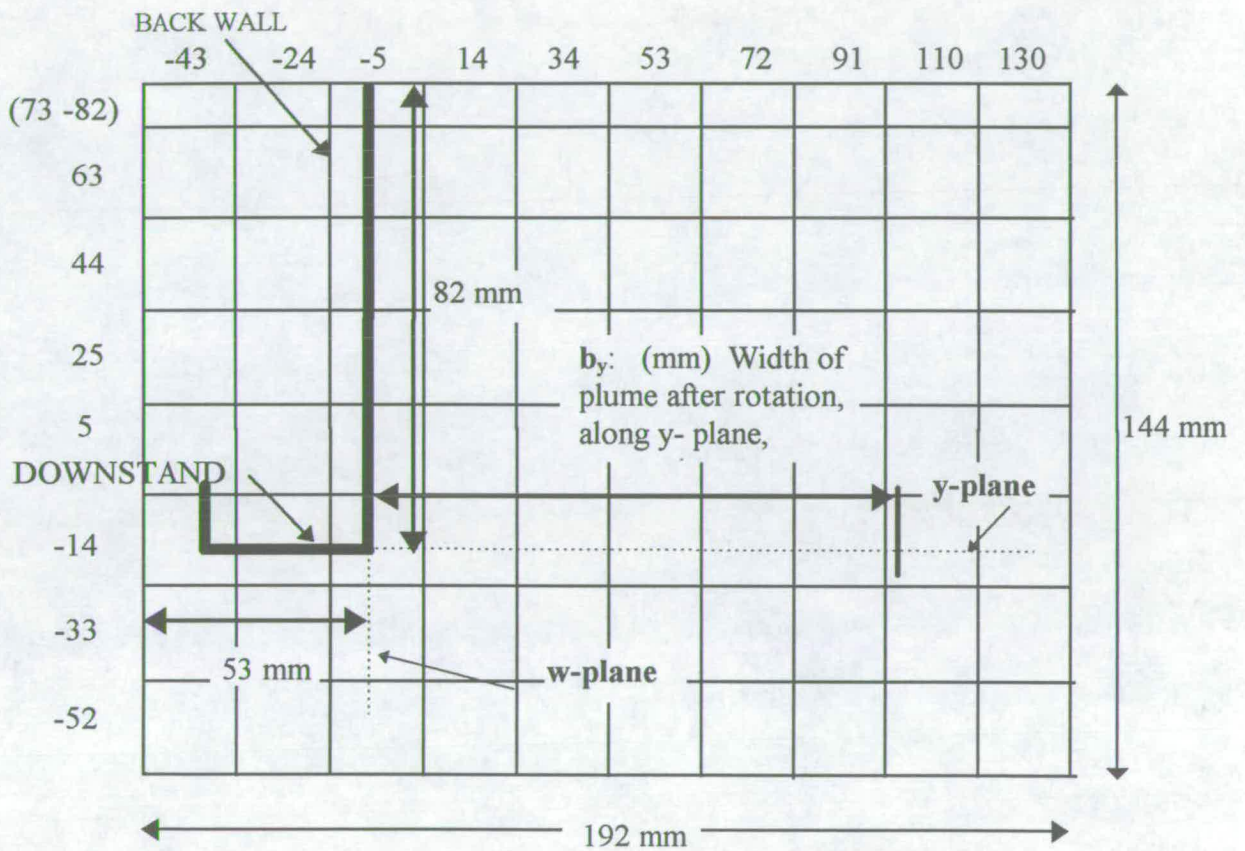
mm	mm	lm73	lm74	lm75	lm76	lm77	lm78	lm79	lm80	mean
35.4	-15.0	0.621	0.032	0.438	0.271	0.398	0.419	0.615	0.307	0.388
35.4	-34.2	0.272	0.171	0.360	0.000	-0.579	0.446	0.516	0.741	0.241
35.4	-53.4	0.307	0.257	-0.449	0.000	0.000	0.479	0.673	-0.242	0.128
35.4	-72.6	0.300	0.215	-0.437	0.000	1.092	0.000	0.563	0.398	0.266
35.4	-91.8	0.000	0.000	0.352	0.000	0.753	0.000	0.715	0.246	0.258
35.4	-111.0	0.000	0.000	0.944	0.000	0.000	0.000	-0.303	-0.186	0.057

mm	mm	lm73	lm74	lm75	lm76	lm77	lm78	lm79	lm80	mean
54.6	-15.0	0.346	0.029	0.000	0.000	0.341	0.426	0.573	0.809	0.316
54.6	-34.2	0.416	-0.117	0.000	0.000	0.981	0.000	0.600	0.570	0.306
54.6	-53.4	0.000	0.000	0.000	0.000	0.000	0.000	0.591	0.432	0.128
54.6	-72.6	0.000	0.000	0.000	0.000	0.000	0.000	0.607	0.996	0.200
54.6	-91.8	0.000	0.000	0.000	0.000	0.000	0.000	0.438	0.360	0.100
54.6	-111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.212	0.000	0.027

# IMAGES 81 TO 88:

## FLOW FROM FIRE COMPARTMENT (Y-PLANE)

660 mm long compartment; 200 mm downstand;  
no balcony; 4.61 kw heat source

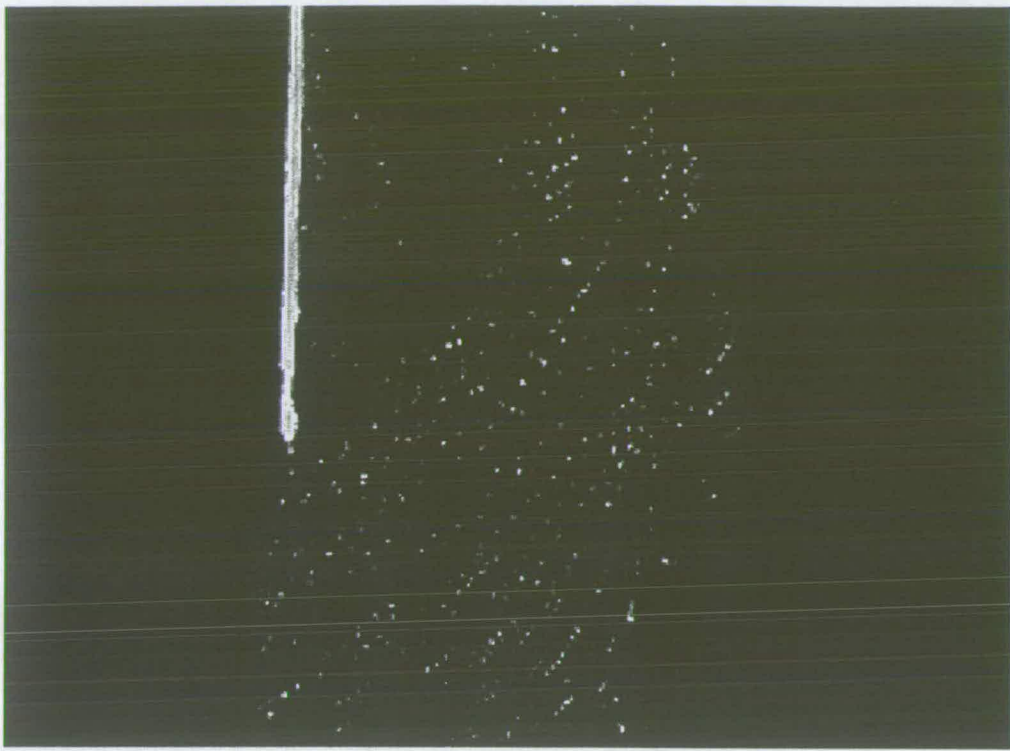


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 81 - 88

Interrogation areas 19.2 mm x 19.2 mm.

SCALE: 1 PIXEL = 0.600 MM

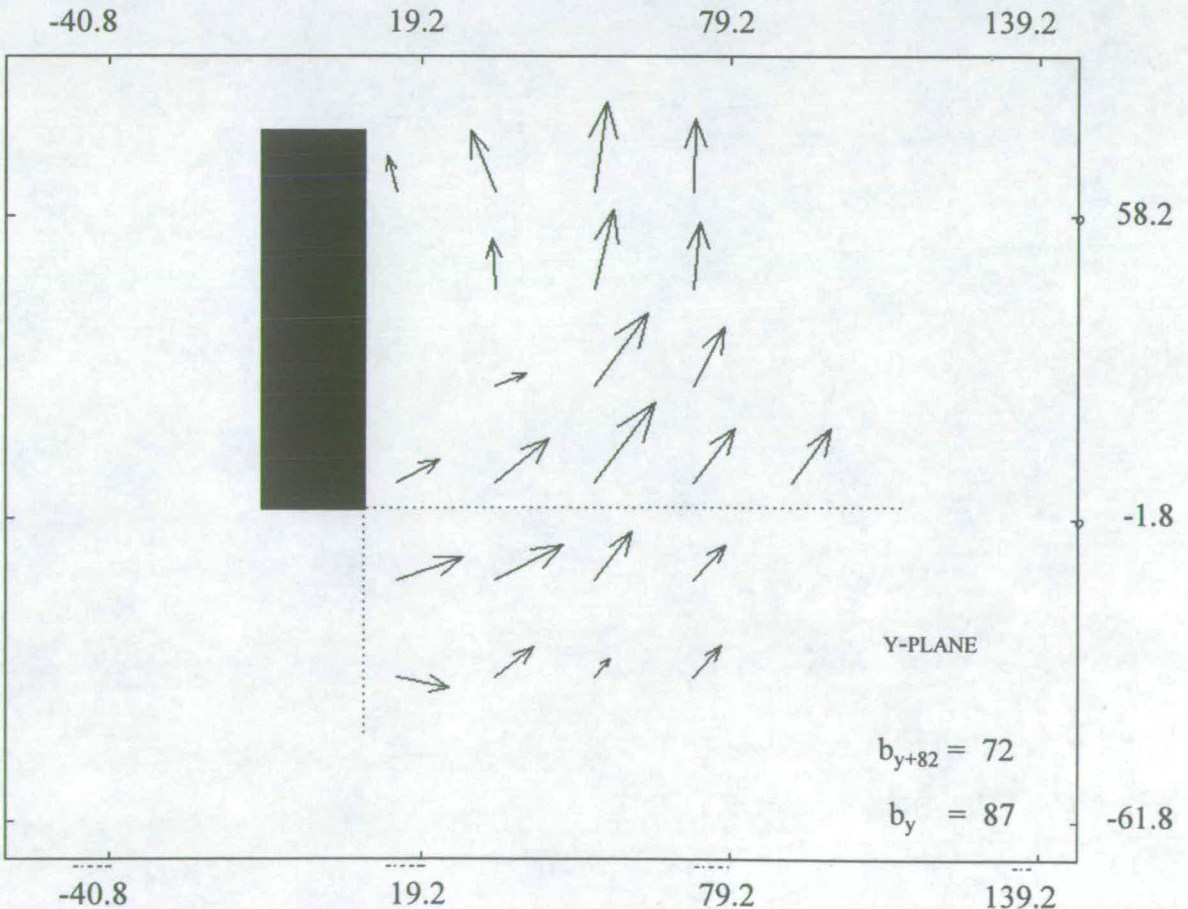
File references: d200y01, d200y02, d200y03, d200y04, d200y05, d200y06, d200y07, d200y08.



144 MM

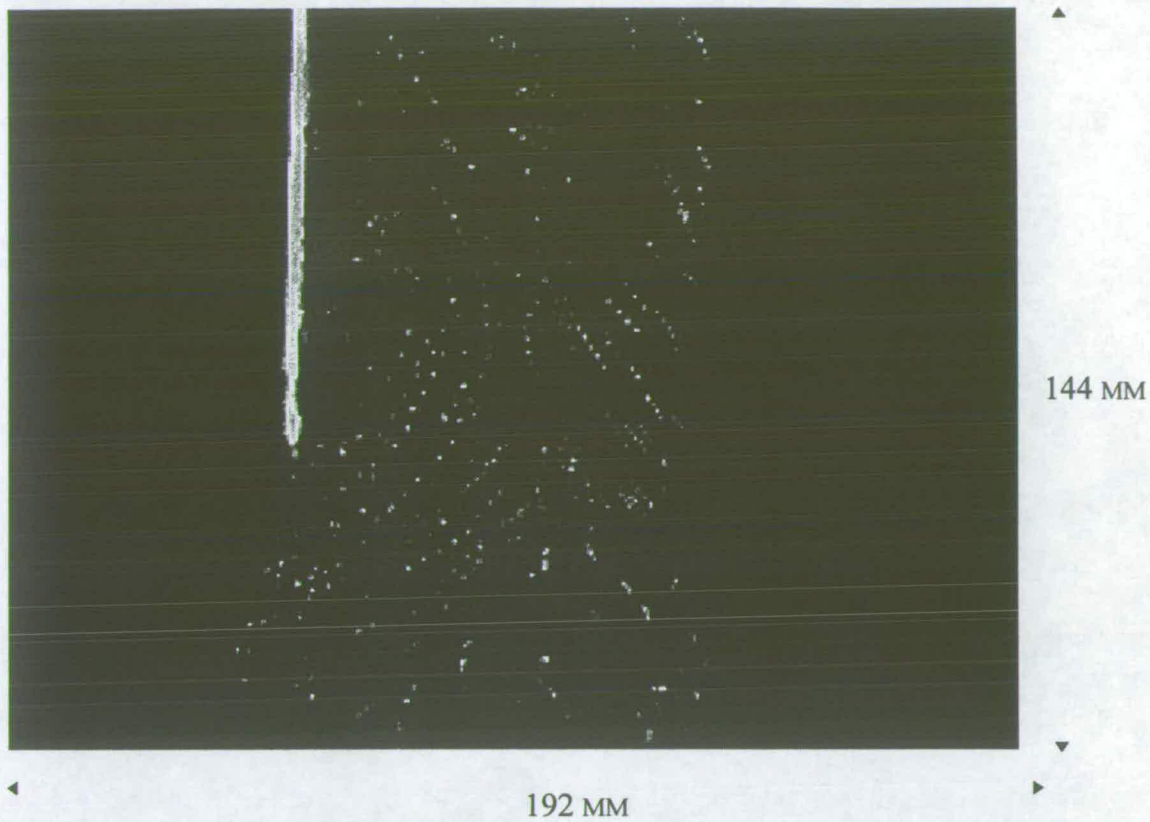
192 MM

ORIGINAL IMAGE

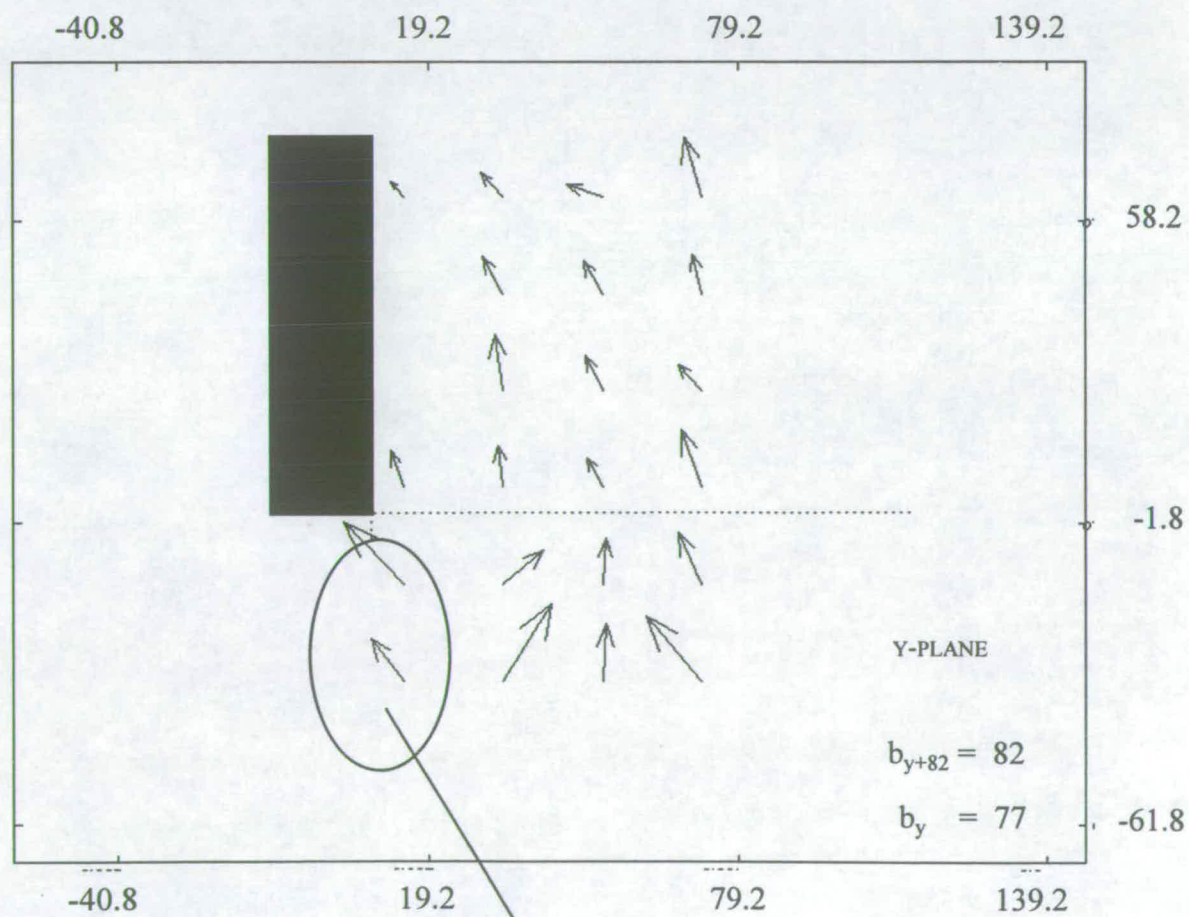


VECTOR MAP  
IMAGE NO. 81

(REF.: D200Y01)

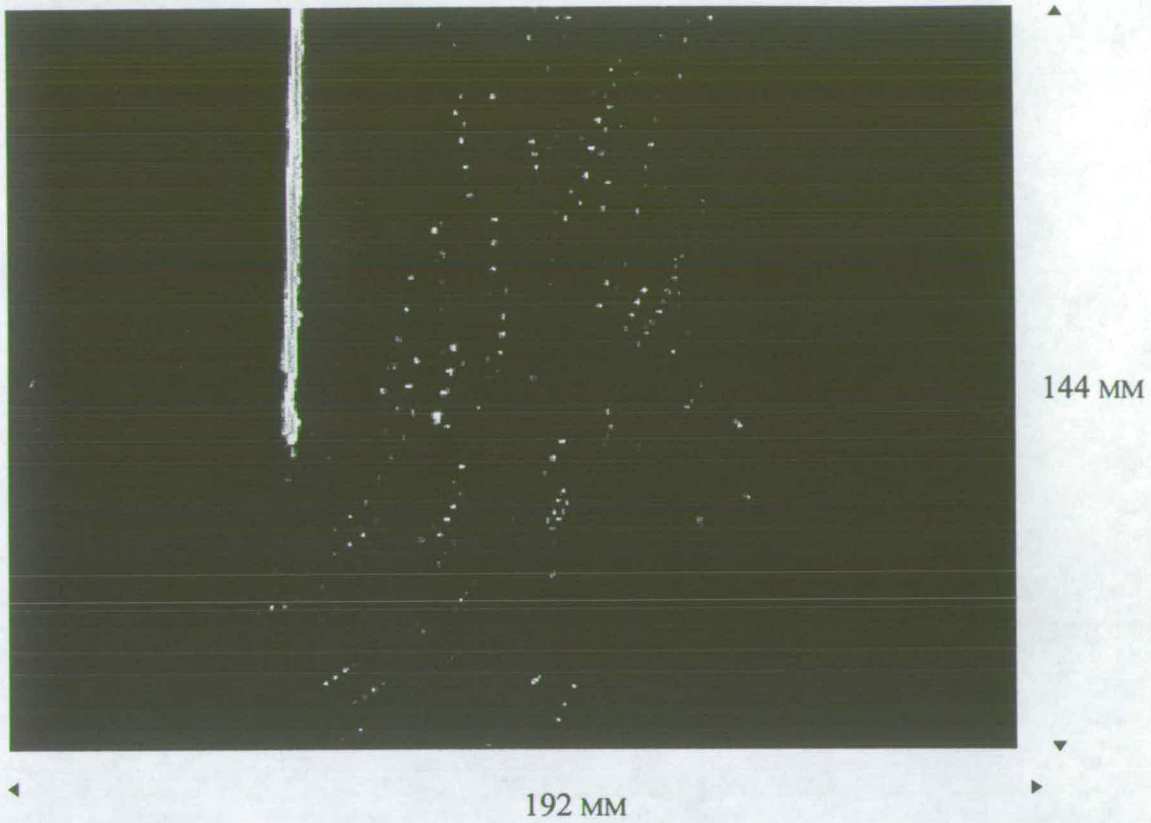


ORIGINAL IMAGE

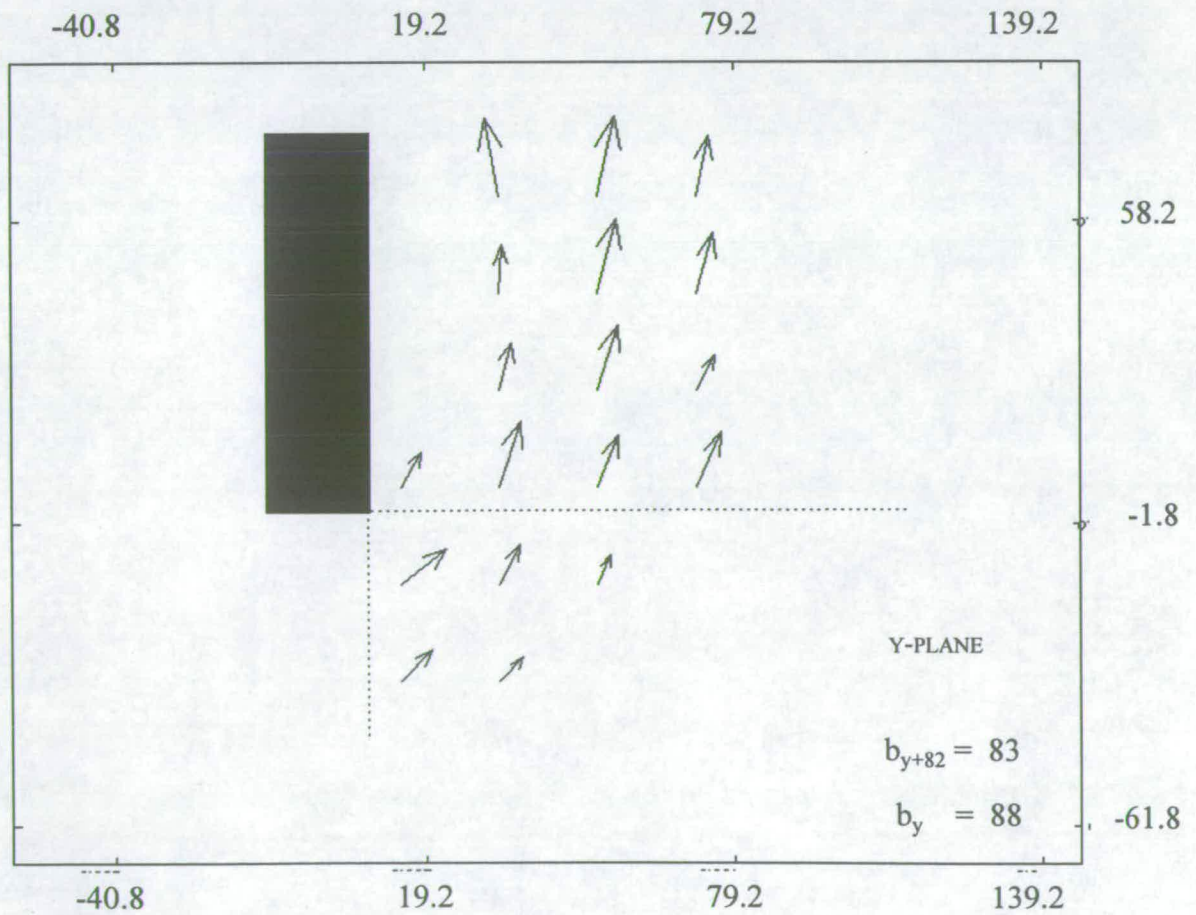


VECTOR MAP  
IMAGE NO. 82

(REF.: D200Y02)

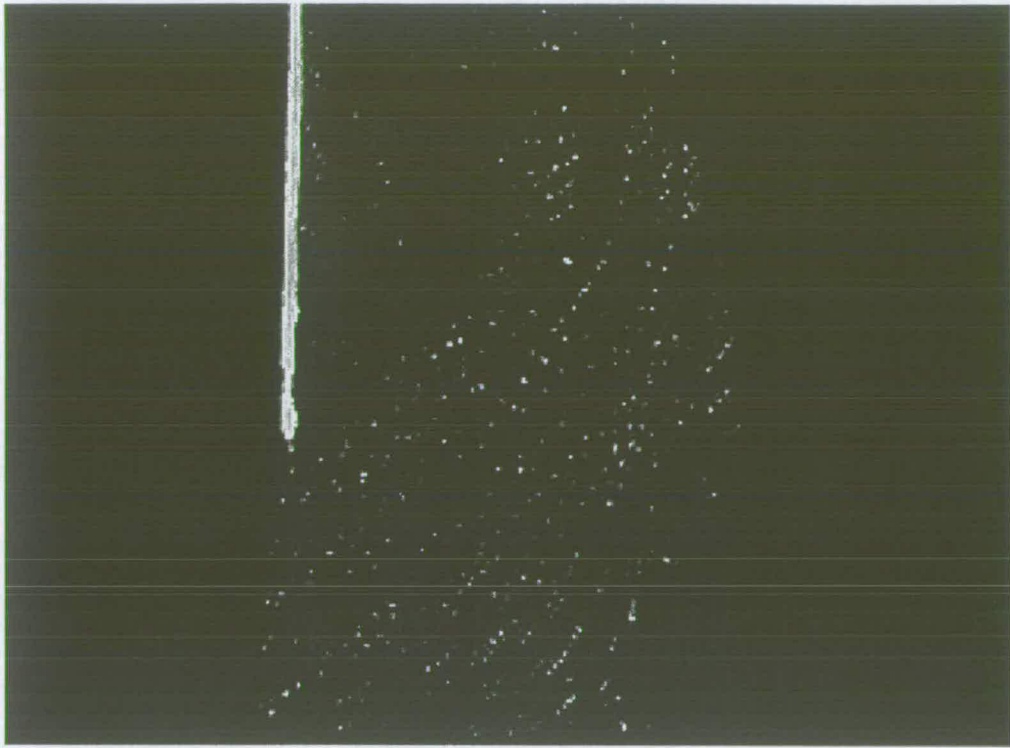


ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 83

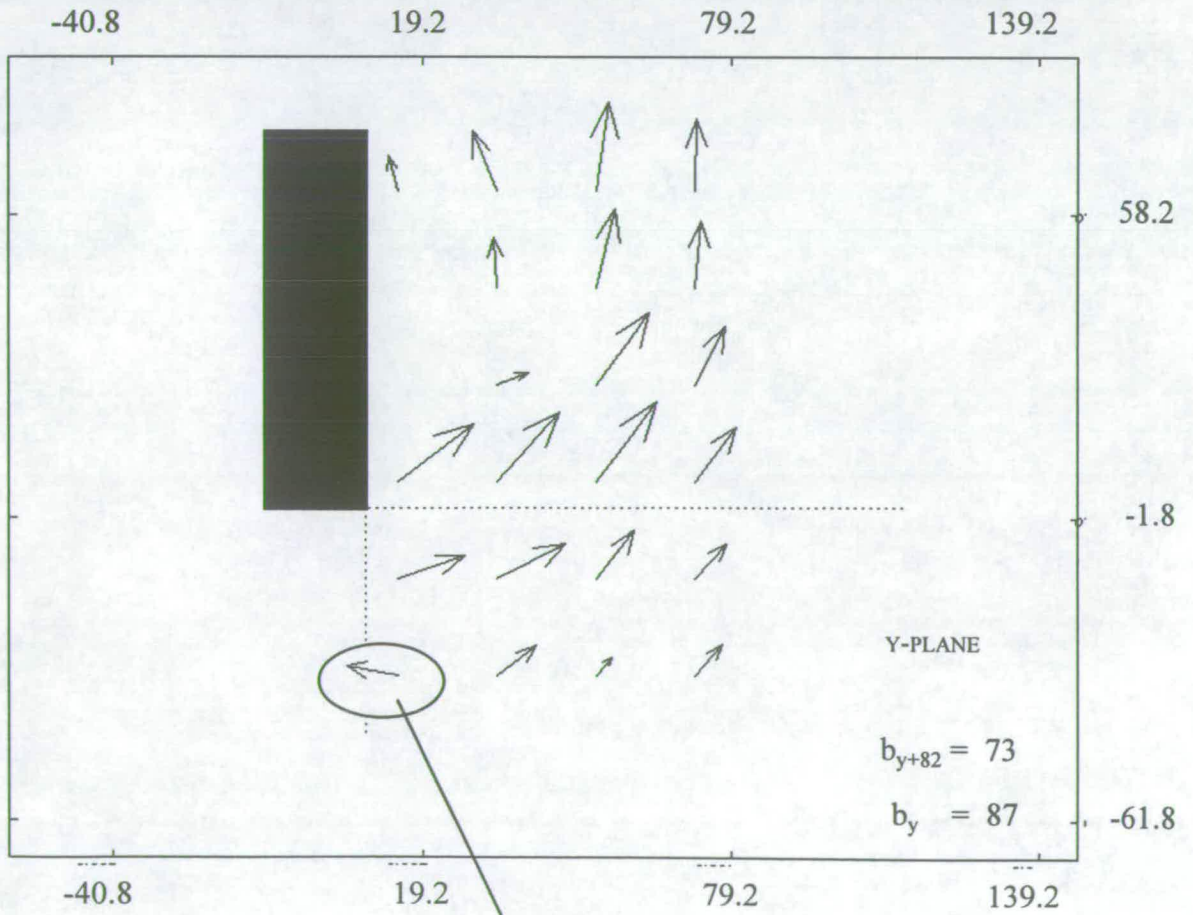
(REF.: D200Y03)



144 MM

192 MM

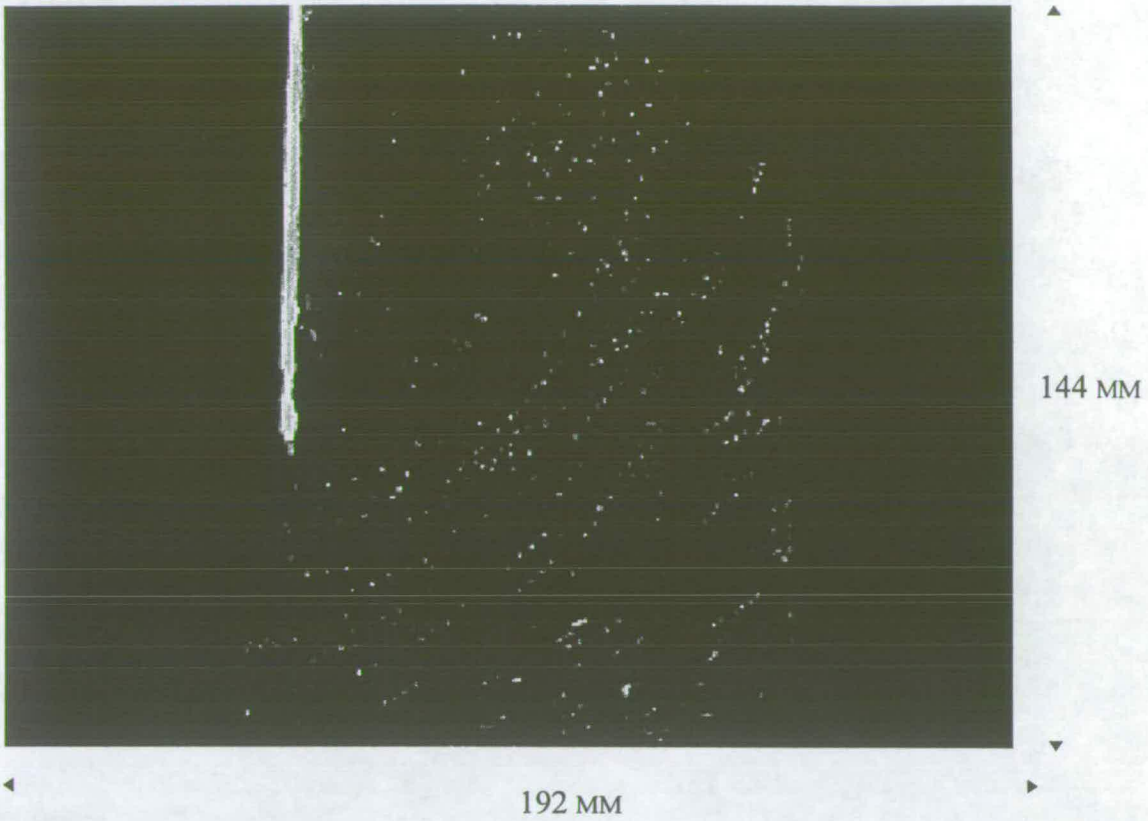
ORIGINAL IMAGE



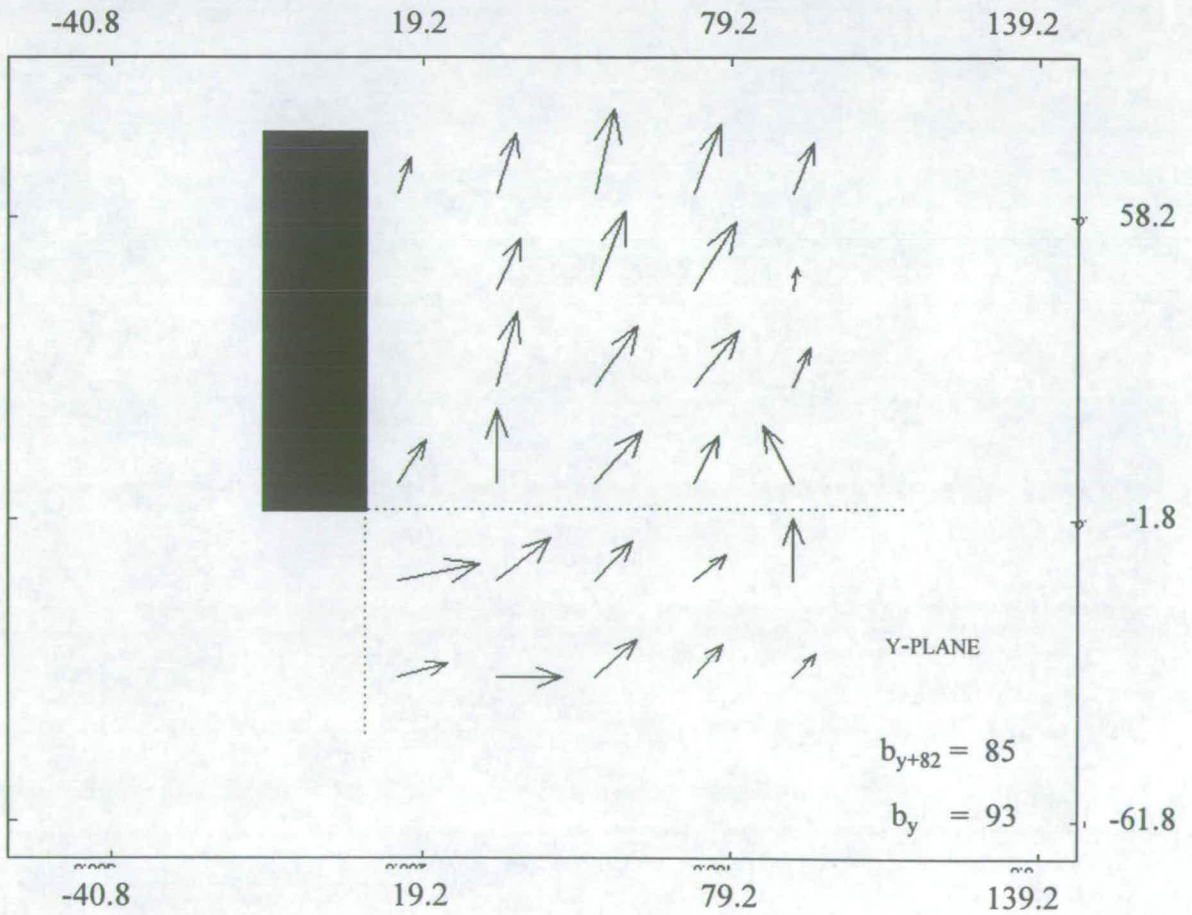
VECTOR MAP  
IMAGE No. 84

processing error

(REF.: D200Y04)

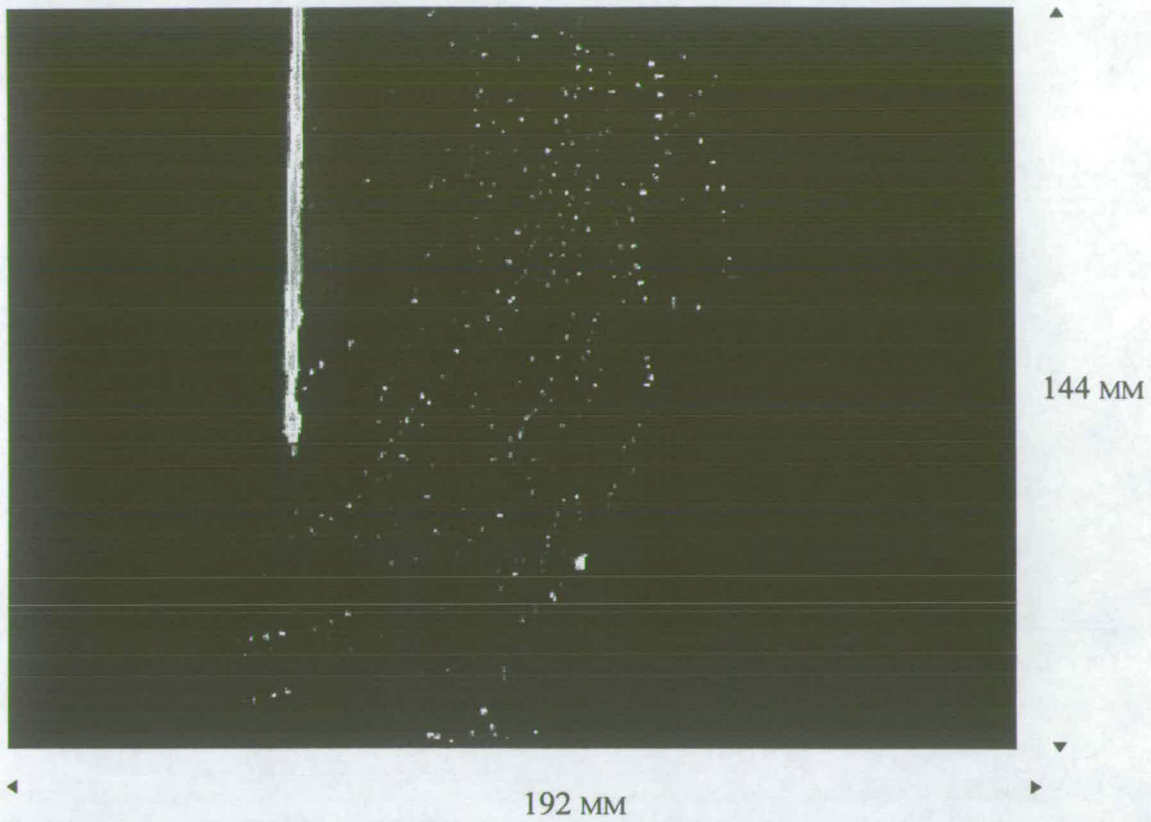


ORIGINAL IMAGE

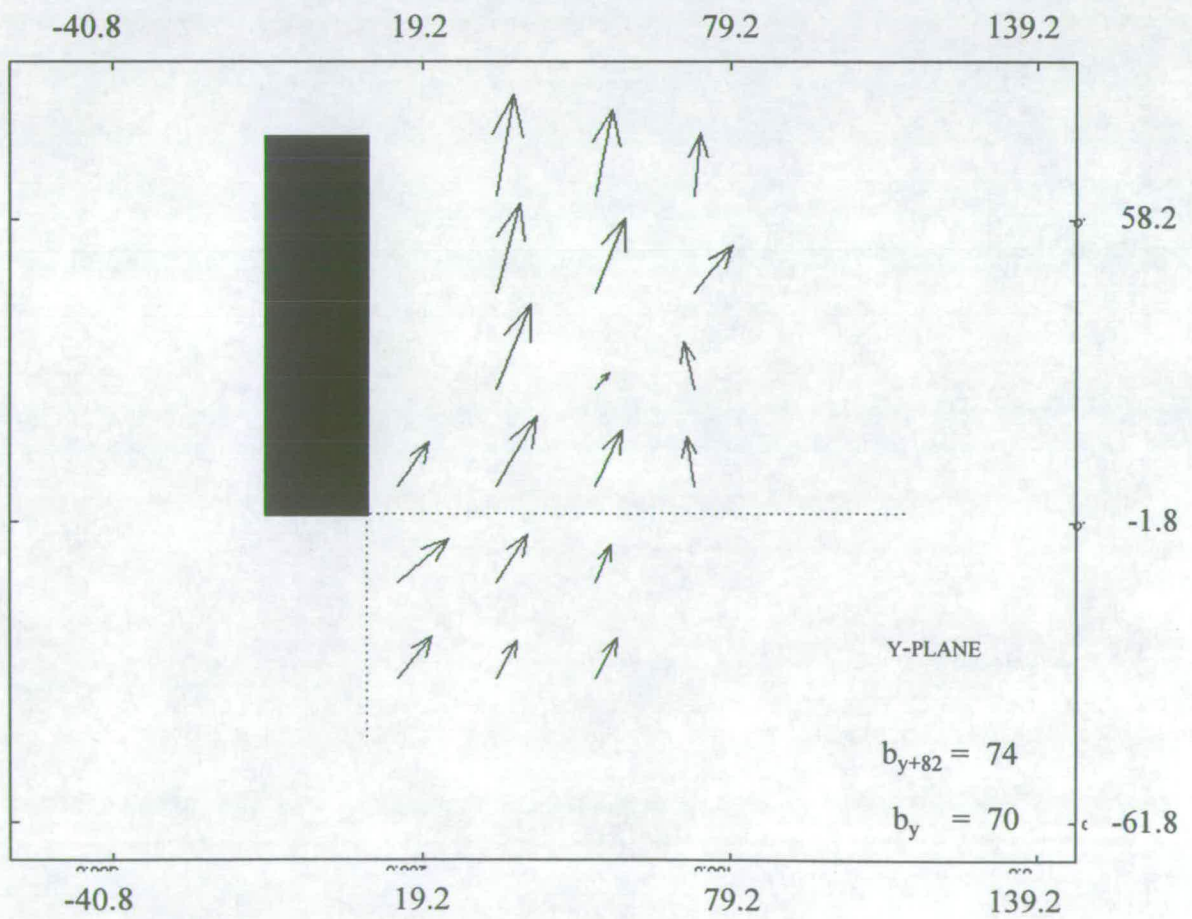


VECTOR MAP  
IMAGE No. 85

(REF.: D200Y05)

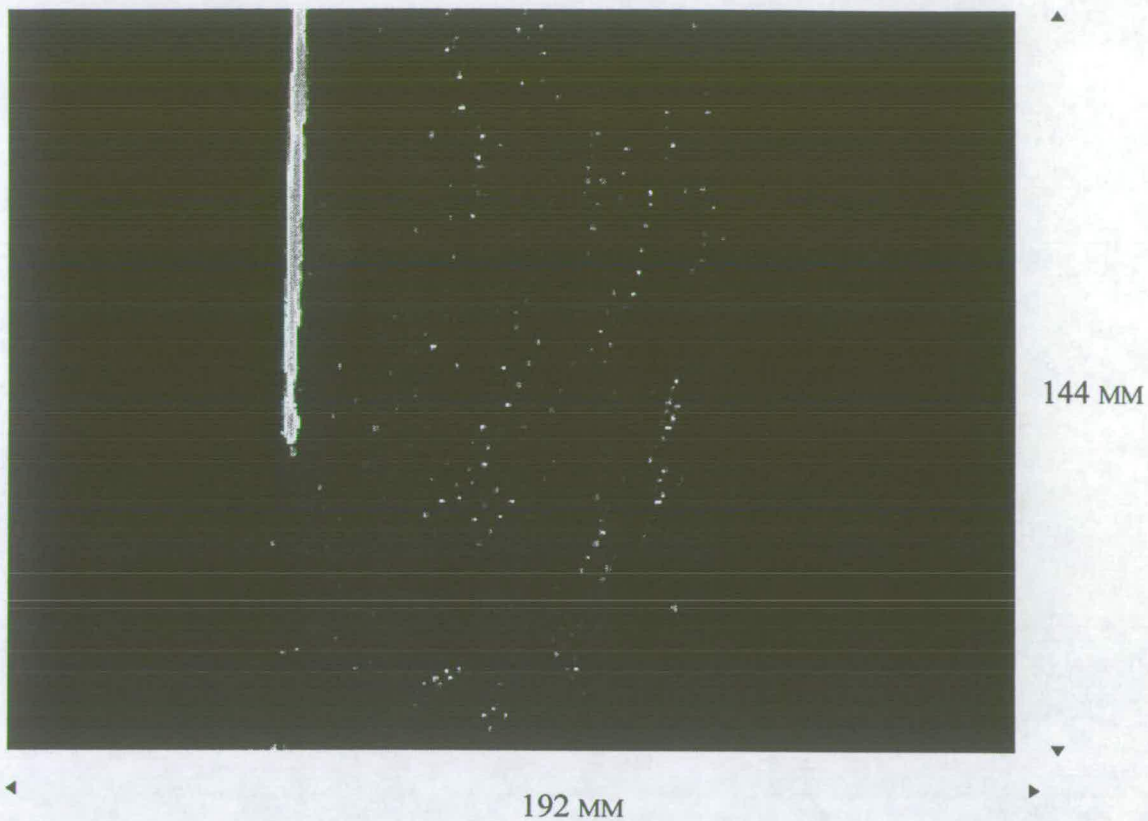


ORIGINAL IMAGE

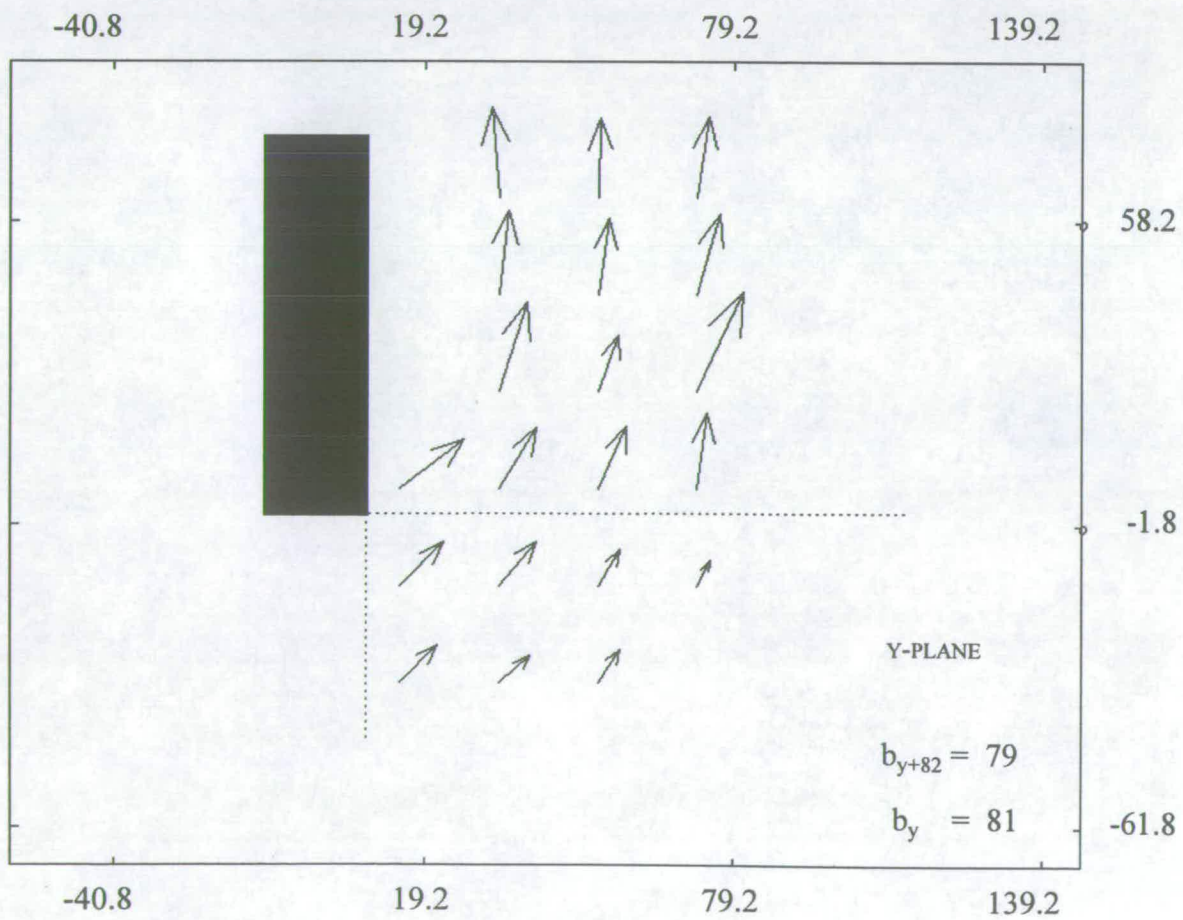


VECTOR MAP  
IMAGE NO. 86

(REF.: D200Y06)

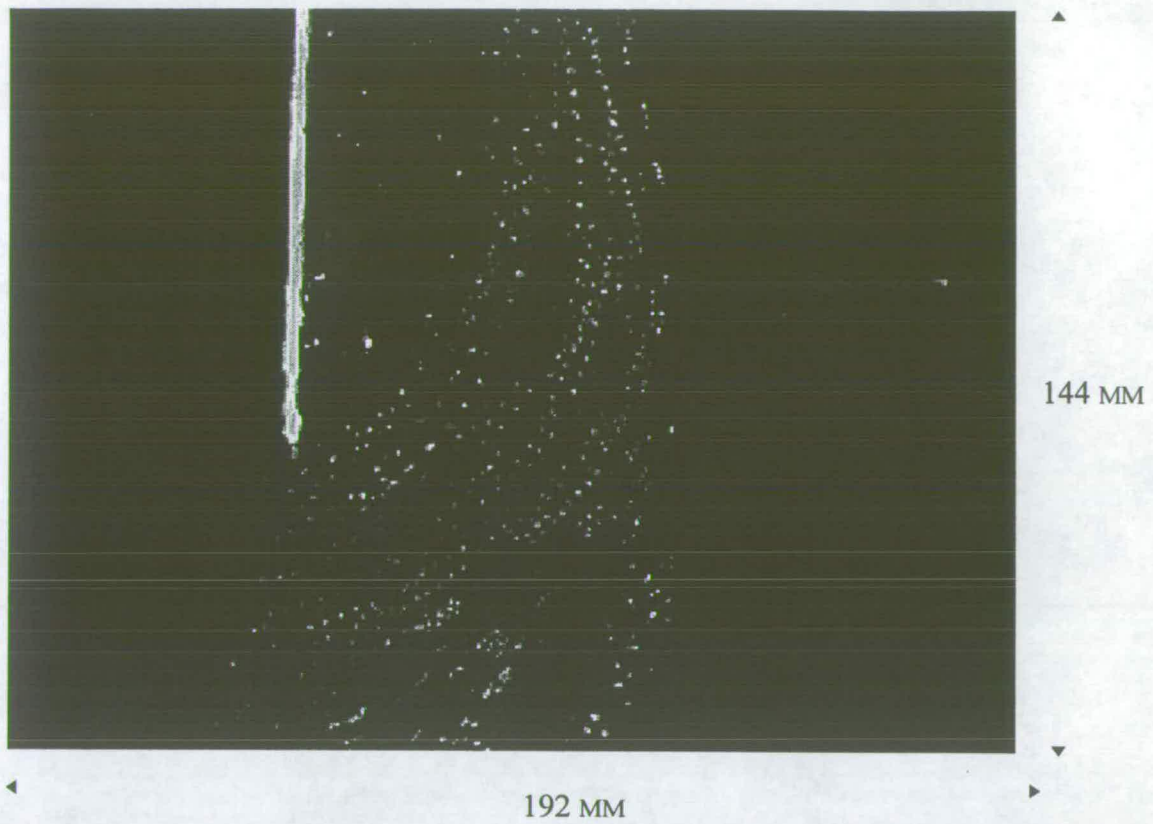


ORIGINAL IMAGE

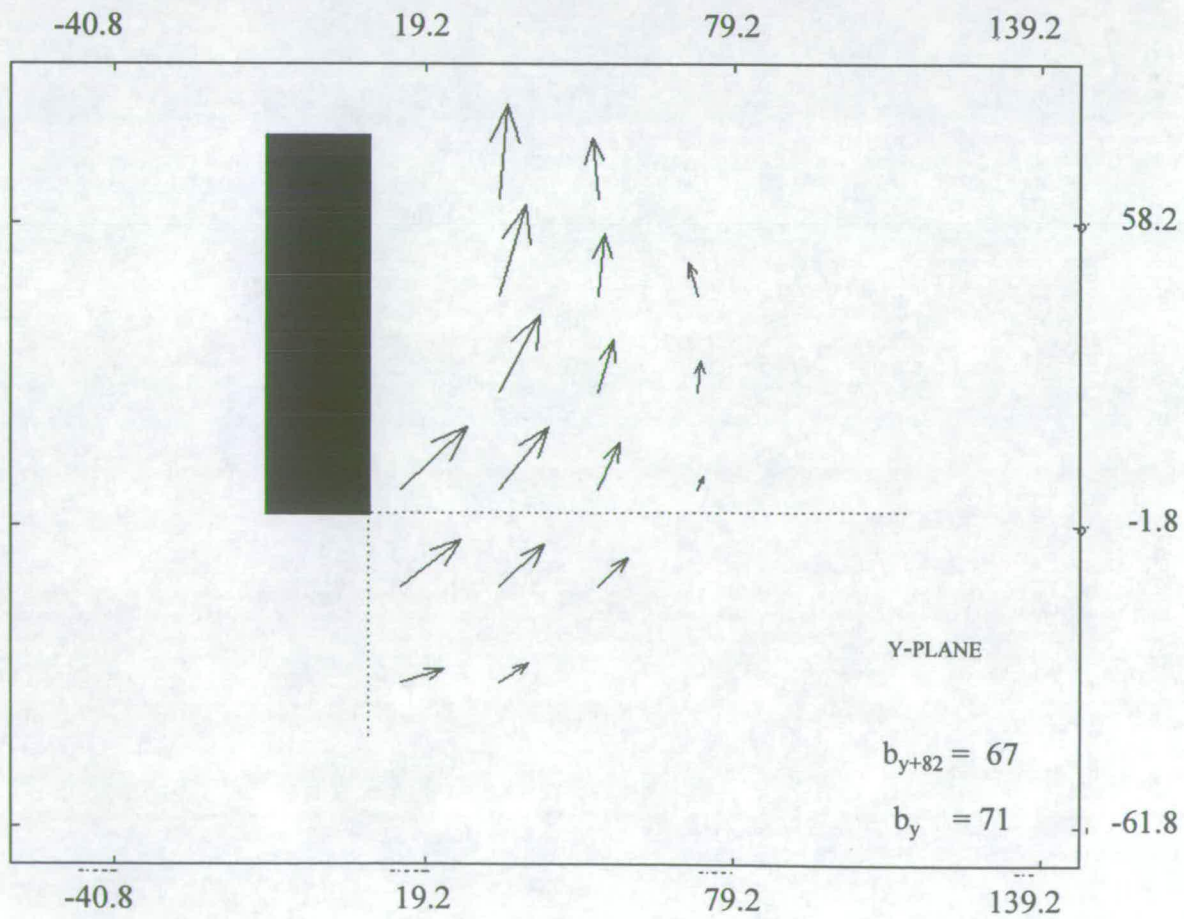


VECTOR MAP  
IMAGE NO. 87

(REF.: D200Y07)



ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 88

(REF.: D200Y08)

**Image 81 d200y01**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
72.0	-33.0	-2.919	0.350	3.568	0.428	1.378
52.8	-33.0	-1.628	0.195	2.097	0.252	1.000
33.6	-33.0	-4.078	0.489	3.382	0.406	1.332
14.4	-33.0	-5.596	0.672	-1.111	-0.133	1.105
72.0	-13.8	-3.374	0.405	3.922	0.471	1.088
52.8	-13.8	-3.993	0.479	5.389	0.647	1.127
33.6	-13.8	-7.274	0.873	3.864	0.464	1.349
14.4	-13.8	-7.060	0.847	2.561	0.307	1.074
91.2	5.4	-4.142	0.497	6.018	0.722	1.000
72.0	5.4	-4.459	0.535	6.136	0.736	1.101
52.8	5.4	-6.359	0.763	8.890	1.067	1.212
33.6	5.4	-5.782	0.694	4.874	0.585	1.023
14.4	5.4	-4.501	0.540	2.522	0.303	1.001
72.0	24.6	-3.219	0.386	6.556	0.787	1.549
52.8	24.6	-5.587	0.670	8.074	0.969	1.118
33.6	24.6	-3.239	0.389	1.482	0.178	1.047
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	-0.666	0.080	7.411	0.889	1.000
52.8	43.8	-1.919	0.230	8.783	1.054	1.000
33.6	43.8	0.391	-0.047	5.661	0.679	1.000
14.4	43.8	0.000	0.000	0.000	0.000	1.000
72.0	63.0	-0.143	0.017	8.130	0.976	1.000
52.8	63.0	-1.284	0.154	9.838	1.181	1.000
33.6	63.0	2.829	-0.339	6.724	0.807	1.007
14.4	63.0	1.044	-0.125	3.889	0.467	2.481

**Image 82 d200y02**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
72.0	-33.0	6.146	-0.737	7.324	0.879	1.187
52.8	-33.0	-0.262	0.031	6.448	0.774	1.000
33.6	-33.0	-5.125	0.615	8.607	1.033	1.024
14.4	-33.0	3.586	-0.430	4.775	0.573	1.716
72.0	-13.8	2.580	-0.310	5.767	0.692	1.101
52.8	-13.8	-0.328	0.039	5.049	0.606	1.036
33.6	-13.8	-4.272	0.513	3.691	0.443	1.154
14.4	-13.8	6.340	-0.761	6.846	0.821	1.133
72.0	5.4	2.278	-0.273	6.396	0.768	1.328
52.8	5.4	1.744	-0.209	3.270	0.392	1.000
33.6	5.4	0.532	-0.064	4.604	0.553	1.533
14.4	5.4	1.404	-0.168	4.068	0.488	1.018
72.0	24.6	2.660	-0.319	2.980	0.358	1.888
52.8	24.6	1.899	-0.228	3.932	0.472	1.000
33.6	24.6	0.990	-0.119	6.167	0.740	1.000
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	1.007	-0.121	4.480	0.538	1.000
52.8	43.8	2.144	-0.257	3.790	0.455	1.154
33.6	43.8	2.228	-0.267	4.226	0.507	1.000
14.4	43.8	0.000	0.000	0.000	0.000	1.000
72.0	63.0	1.963	-0.236	6.599	0.792	1.000
52.8	63.0	3.947	-0.474	1.484	0.178	1.156
33.6	63.0	2.408	-0.289	2.725	0.327	1.000

**Image 83 d200y03**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
33.6	-33.0	-2.417	0.290	2.693	0.323	1.636
14.4	-33.0	-3.183	0.382	3.508	0.421	1.091
52.8	-13.8	-1.180	0.142	3.185	0.382	1.000
33.6	-13.8	-2.122	0.255	4.425	0.531	1.000
14.4	-13.8	-4.721	0.567	3.887	0.466	1.285
72.0	5.4	-2.651	0.318	6.045	0.725	1.188
52.8	5.4	-2.021	0.243	5.779	0.693	1.000
33.6	5.4	-2.172	0.261	7.293	0.875	1.000
14.4	5.4	-2.154	0.258	3.983	0.478	1.347
72.0	24.6	-1.978	0.237	3.875	0.465	1.000
52.8	24.6	-2.038	0.245	7.183	0.862	1.000
33.6	24.6	-1.196	0.144	5.298	0.636	1.152
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	-1.765	0.212	6.692	0.803	1.000
52.8	43.8	-1.864	0.224	8.314	0.998	1.000
33.6	43.8	-0.283	0.034	5.400	0.648	1.002
14.4	43.8	0.000	0.000	0.000	0.000	1.000
72.0	63.0	-1.314	0.158	6.722	0.807	1.000
52.8	63.0	-1.812	0.217	8.869	1.064	1.000
33.6	63.0	1.561	-0.187	8.730	1.048	1.000
14.4	63.0	0.000	0.000	0.000	0.000	1.000

**Image 84 d200y04**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
mm	mm	pix/per	m/s	pix/per	m/s	snr
72.0	-33.0	-2.919	0.350	3.568	0.428	1.378
52.8	-33.0	-1.628	0.195	2.097	0.252	1.000
33.6	-33.0	-4.078	0.489	3.382	0.406	1.332
14.4	-33.0	5.596	-0.672	1.111	0.133	1.105
72.0	-13.8	-3.374	0.405	3.922	0.471	1.088
52.8	-13.8	-3.993	0.479	5.389	0.647	1.127
33.6	-13.8	-7.274	0.873	3.864	0.464	1.349
14.4	-13.8	-7.060	0.847	2.561	0.307	1.074
72.0	5.4	-4.459	0.535	6.136	0.736	1.101
52.8	5.4	-6.359	0.763	8.890	1.067	1.212
33.6	5.4	-6.568	0.788	7.824	0.939	1.023
14.4	5.4	-8.011	0.961	6.488	0.779	1.001
72.0	24.6	-3.219	0.386	6.556	0.787	1.549
52.8	24.6	-5.587	0.670	8.074	0.969	1.118
33.6	24.6	-3.239	0.389	1.482	0.178	1.047
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	-0.666	0.080	7.411	0.889	1.000
52.8	43.8	-1.919	0.230	8.783	1.054	1.000
33.6	43.8	0.391	-0.047	5.661	0.679	1.000
14.4	43.8	0.000	0.000	0.000	0.000	1.000
72.0	63.0	-0.143	0.017	8.130	0.976	1.000
52.8	63.0	-1.284	0.154	9.838	1.181	1.000
33.6	63.0	2.829	-0.339	6.724	0.807	1.007
14.4	63.0	1.044	-0.125	3.889	0.467	2.481

Image 85		d200y05		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y			
mm	mm	pix/per	m/s	pix/per	m/s			snr
91.2	-33.0	-2.473	0.297	2.694	0.323			1.000
72.0	-33.0	-3.121	0.375	3.788	0.455			1.063
52.8	-33.0	-4.406	0.529	4.202	0.504			1.075
33.6	-33.0	-7.095	0.851	0.103	0.012			1.138
14.4	-33.0	-5.209	0.625	1.546	0.185			1.594
91.2	-13.8	0.028	-0.003	6.845	0.821			1.000
72.0	-13.8	-3.499	0.420	2.836	0.340			1.147
52.8	-13.8	-3.947	0.474	4.464	0.536			1.251
33.6	-13.8	-5.798	0.696	4.669	0.560			1.322
14.4	-13.8	-8.742	1.049	1.899	0.228			1.089
91.2	5.4	3.288	-0.395	6.447	0.774			1.069
72.0	5.4	-2.628	0.315	5.244	0.629			1.005
52.8	5.4	-4.970	0.596	5.816	0.698			1.352
33.6	5.4	0.136	-0.016	8.238	0.989			1.000
14.4	5.4	-2.921	0.351	4.770	0.572			1.046
91.2	24.6	-1.674	0.201	4.357	0.523			1.000
72.0	24.6	-4.755	0.571	6.217	0.746			1.192
52.8	24.6	-4.476	0.537	6.699	0.804			1.603
33.6	24.6	-2.049	0.246	8.193	0.983			1.149
14.4	24.6	0.000	0.000	0.000	0.000			1.000
91.2	43.8	-0.325	0.039	2.653	0.318			1.000
72.0	43.8	-4.345	0.521	7.501	0.900			1.107
52.8	43.8	-3.007	0.361	8.681	1.042			1.427
33.6	43.8	-2.480	0.298	5.776	0.693			1.000
14.4	43.8	0.000	0.000	0.000	0.000			1.000
91.2	63.0	-2.015	0.242	5.642	0.677			1.000
72.0	63.0	-2.757	0.331	7.501	0.900			1.120
52.8	63.0	-1.850	0.222	9.277	1.113			1.000
33.6	63.0	-1.968	0.236	6.632	0.796			1.097
14.4	63.0	-1.219	0.146	3.845	0.461			1.043

Image 86		d200y06		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y			
mm	mm	pix/per	m/s	pix/per	m/s			snr
52.8	-33.0	-2.270	0.272	4.580	0.550			1.301
33.6	-33.0	-2.145	0.257	4.251	0.510			1.000
14.4	-33.0	-3.575	0.429	4.754	0.571			1.010
52.8	-13.8	-1.614	0.194	4.273	0.513			1.000
33.6	-13.8	-3.295	0.395	5.422	0.651			1.141
14.4	-13.8	-5.335	0.640	4.979	0.597			1.368
72.0	5.4	0.963	-0.116	5.650	0.678			1.000
52.8	5.4	-2.827	0.339	6.320	0.758			1.007
33.6	5.4	-4.289	0.515	7.793	0.935			1.199
14.4	5.4	-3.261	0.391	4.965	0.596			1.082
72.0	24.6	1.279	-0.154	5.200	0.624			1.000
52.8	24.6	-1.357	0.163	1.931	0.232			1.000
33.6	24.6	-3.595	0.431	9.366	1.124			1.073
14.4	24.6	0.000	0.000	0.000	0.000			1.000
72.0	43.8	-4.007	0.481	5.252	0.630			1.128
52.8	43.8	-3.128	0.375	8.238	0.989			1.342
33.6	43.8	-2.413	0.290	9.919	1.190			1.000
14.4	43.8	0.000	0.000	0.000	0.000			1.000
72.0	63.0	-0.572	0.069	7.088	0.851			1.000
52.8	63.0	-1.809	0.217	9.619	1.154			1.000
33.6	63.0	-1.723	0.207	11.203	1.344			1.000
14.4	63.0	0.000	0.000	0.000	0.000			1.000

**Image 87 d200y07**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
52.8	-33.0	-2.204	0.265	3.681	0.442	1.000
33.6	-33.0	-3.198	0.384	3.047	0.366	1.214
14.4	-33.0	-3.956	0.475	4.169	0.500	1.224
72.0	-13.8	-1.352	0.162	2.919	0.350	1.000
52.8	-13.8	-2.169	0.260	4.011	0.481	1.000
33.6	-13.8	-3.906	0.469	4.896	0.588	1.898
14.4	-13.8	-4.590	0.551	4.864	0.584	1.061
72.0	5.4	-1.100	0.132	8.496	1.019	1.000
52.8	5.4	-2.989	0.359	6.992	0.839	1.476
33.6	5.4	-3.943	0.473	6.742	0.809	1.167
14.4	5.4	-6.785	0.814	5.463	0.656	1.020
72.0	24.6	-4.942	0.593	11.029	1.324	1.044
52.8	24.6	-2.081	0.250	6.199	0.744	1.000
33.6	24.6	-2.904	0.348	9.854	1.182	1.193
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	-2.383	0.286	8.995	1.079	1.040
52.8	43.8	-1.138	0.137	8.365	1.004	1.000
33.6	43.8	-0.850	0.102	9.265	1.112	1.000
14.4	43.8	0.000	0.000	0.000	0.000	1.000
72.0	63.0	-1.290	0.155	8.942	1.073	1.114
52.8	63.0	-0.072	0.009	8.730	1.048	1.000
33.6	63.0	0.947	-0.114	9.891	1.187	1.000
14.4	63.0	0.000	0.000	0.000	0.000	1.000

**Image 88 d200y08**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
33.6	-33.0	-3.029	0.364	2.244	0.269	1.025
14.4	-33.0	-4.543	0.545	1.523	0.183	1.478
52.8	-13.8	-3.043	0.365	3.262	0.391	1.899
33.6	-13.8	-4.800	0.576	4.747	0.570	1.218
14.4	-13.8	-6.383	0.766	5.287	0.634	1.181
72.0	5.4	-0.639	0.077	1.534	0.184	1.000
52.8	5.4	-2.193	0.263	5.304	0.637	1.000
33.6	5.4	-5.200	0.624	6.880	0.826	1.328
14.4	5.4	-7.037	0.844	6.859	0.823	1.469
72.0	24.6	-0.299	0.036	3.607	0.433	1.000
52.8	24.6	-1.566	0.188	5.894	0.707	1.000
33.6	24.6	-4.282	0.514	8.636	1.036	1.644
14.4	24.6	0.000	0.000	0.000	0.000	1.000
72.0	43.8	1.008	-0.121	3.713	0.446	1.000
52.8	43.8	-0.548	0.066	6.942	0.833	1.000
33.6	43.8	-2.833	0.340	10.074	1.209	1.306
14.4	43.8	0.000	0.000	0.000	0.000	1.000
52.8	63.0	0.795	-0.095	6.833	0.820	1.000
33.6	63.0	-0.812	0.097	10.377	1.245	1.000
14.4	63.0	0.000	0.000	0.000	0.000	1.000

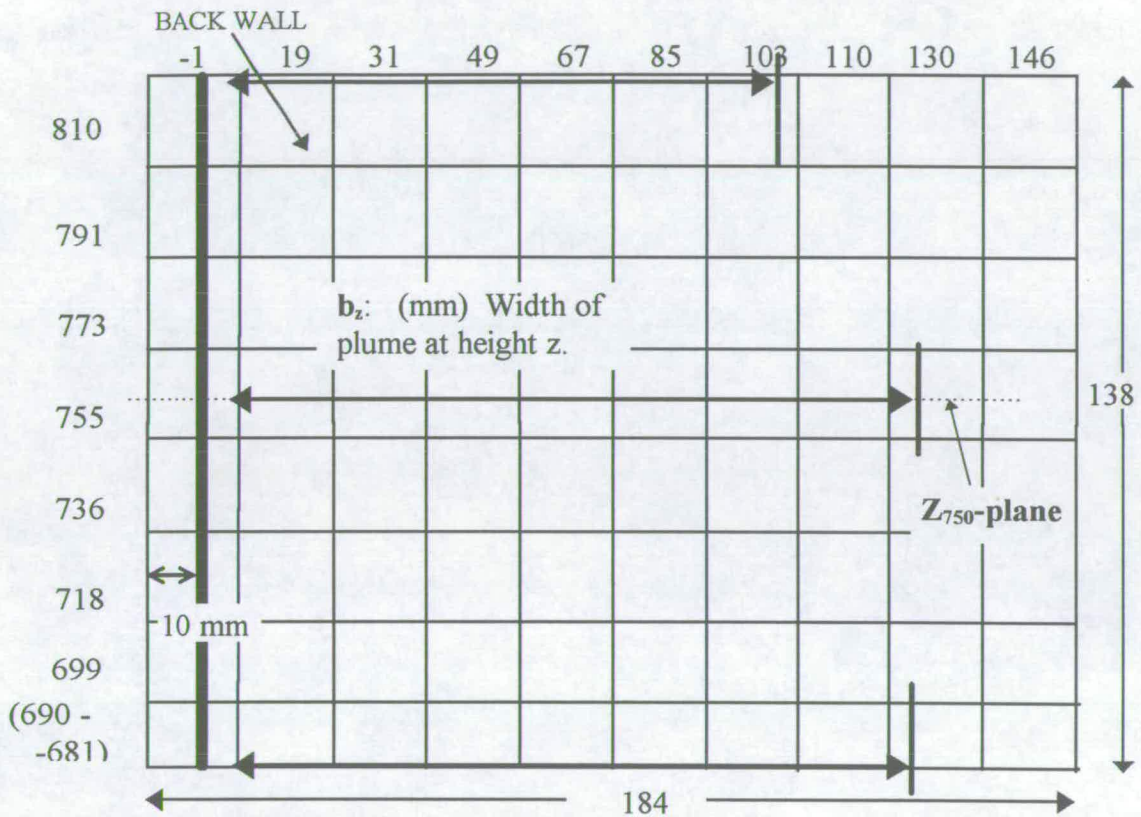
Velocity Data location		200 mm Downstand velocity			Y-Plane			Vertical Velocities			
x	y	200y01	200y02	200y03	200y04	200y05	200y06	200y07	200y08	mean	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	63.0	0.467	0.000	0.000	0.467	0.461	0.000	0.000	0.000	0.000	0.174
33.6	63.0	0.807	0.327	1.048	0.807	0.796	1.344	1.187	1.245	1.245	0.945
52.8	63.0	1.181	0.178	1.064	1.181	1.113	1.154	1.048	0.820	0.820	0.967
72.0	63.0	0.976	0.792	0.807	0.976	0.900	0.851	1.073	0.000	0.000	0.797
91.2	63.0	0.000	0.000	0.000	0.000	0.677	0.000	0.000	0.000	0.000	0.085
14.4	43.8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33.6	43.8	0.679	0.507	0.648	0.679	0.693	1.190	1.112	1.209	1.209	0.840
52.8	43.8	1.054	0.455	0.998	1.054	1.042	0.989	1.004	0.833	0.833	0.928
72.0	43.8	0.889	0.538	0.803	0.889	0.900	0.630	1.079	0.446	0.446	0.772
91.2	43.8	0.000	0.000	0.000	0.000	0.318	0.000	0.000	0.000	0.000	0.040
14.4	24.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33.6	24.6	0.178	0.740	0.636	0.178	0.983	1.124	1.182	1.036	1.036	0.757
52.8	24.6	0.969	0.472	0.862	0.969	0.804	0.232	0.744	0.707	0.707	0.720
72.0	24.6	0.787	0.358	0.465	0.787	0.746	0.624	1.324	0.433	0.433	0.690
91.2	24.6	0.000	0.000	0.000	0.000	0.523	0.000	0.000	0.000	0.000	0.065
14.4	5.4	0.303	0.488	0.478	0.779	0.572	0.596	0.656	0.823	0.823	0.587
33.6	5.4	0.585	0.553	0.875	0.939	0.989	0.935	0.809	0.826	0.826	0.814
52.8	5.4	1.067	0.392	0.693	1.067	0.698	0.758	0.839	0.637	0.637	0.769
72.0	5.4	0.736	0.768	0.725	0.736	0.629	0.678	1.019	0.184	0.184	0.685
91.2	5.4	0.722	0.000	0.000	0.000	0.774	0.000	0.000	0.000	0.000	0.187
14.4	-13.8	0.307	0.821	0.466	0.307	0.228	0.597	0.584	0.634	0.634	0.493
33.6	-13.8	0.464	0.443	0.531	0.464	0.560	0.651	0.588	0.570	0.570	0.534
52.8	-13.8	0.647	0.606	0.382	0.647	0.536	0.513	0.481	0.391	0.391	0.525
72.0	-13.8	0.471	0.692	0.000	0.471	0.340	0.000	0.350	0.000	0.000	0.290
91.2	-13.8	0.000	0.000	0.000	0.000	0.821	0.000	0.000	0.000	0.000	0.103
14.4	-33.0	-0.133	0.573	0.421	0.133	0.185	0.571	0.500	0.183	0.183	0.304
33.6	-33.0	0.406	1.033	0.323	0.406	0.012	0.510	0.366	0.269	0.269	0.416
52.8	-33.0	0.252	0.774	0.000	0.252	0.504	0.550	0.442	0.000	0.000	0.347
72.0	-33.0	0.428	0.879	0.000	0.428	0.455	0.000	0.000	0.000	0.000	0.274
91.2	-33.0	0.000	0.000	0.000	0.000	0.323	0.000	0.000	0.000	0.000	0.040

Velocity Data location		200 mm Downstand velocity			Y-Plane		Horizontal Velocities				
x	y	200y01	200y02	200y03	200y04	200y05	200y06	200y07	200y08	mean	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	63.0	-0.125	0.000	0.000	-0.125	0.146	0.000	0.000	0.000	-0.013	
33.6	63.0	-0.339	-0.289	-0.187	-0.339	0.236	0.207	-0.114	0.097	-0.091	
52.8	63.0	0.154	-0.474	0.217	0.154	0.222	0.217	0.009	-0.095	0.051	
72.0	63.0	0.017	-0.236	0.158	0.017	0.331	0.069	0.155	0.000	0.064	
91.2	63.0	0.000	0.000	0.000	0.000	0.242	0.000	0.000	0.000	0.030	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	43.8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
33.6	43.8	-0.047	-0.267	0.034	-0.047	0.298	0.290	0.102	0.340	0.088	
52.8	43.8	0.230	-0.257	0.224	0.230	0.361	0.375	0.137	0.066	0.171	
72.0	43.8	0.080	-0.121	0.212	0.080	0.521	0.481	0.286	-0.121	0.177	
91.2	43.8	0.000	0.000	0.000	0.000	0.039	0.000	0.000	0.000	0.005	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	24.6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
33.6	24.6	0.389	-0.119	0.144	0.389	0.246	0.431	0.348	0.514	0.293	
52.8	24.6	0.670	-0.228	0.245	0.670	0.537	0.163	0.250	0.188	0.312	
72.0	24.6	0.386	-0.319	0.237	0.386	0.571	-0.154	0.593	0.036	0.217	
91.2	24.6	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.000	0.025	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	5.4	0.540	-0.168	0.258	0.961	0.351	0.391	0.814	0.844	0.499	
33.6	5.4	0.694	-0.064	0.261	0.788	-0.016	0.515	0.473	0.624	0.409	
52.8	5.4	0.763	-0.209	0.243	0.763	0.596	0.339	0.359	0.263	0.390	
72.0	5.4	0.535	-0.273	0.318	0.535	0.315	-0.116	0.132	0.077	0.190	
91.2	5.4	0.497	0.000	0.000	0.000	-0.395	0.000	0.000	0.000	0.013	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	-13.8	0.847	-0.761	0.567	0.847	1.049	0.640	0.551	0.766	0.563	
33.6	-13.8	0.873	0.513	0.255	0.873	0.696	0.395	0.469	0.576	0.581	
52.8	-13.8	0.479	0.039	0.142	0.479	0.474	0.194	0.260	0.365	0.304	
72.0	-13.8	0.405	-0.310	0.000	0.405	0.420	0.000	0.162	0.000	0.135	
91.2	-13.8	0.000	0.000	0.000	0.000	-0.003	0.000	0.000	0.000	0.000	
mm	mm	lm81	lm82	lm83	lm84	lm85	lm86	lm87	lm88	mean	
14.4	-33.0	0.672	-0.430	0.382	-0.672	0.625	0.429	0.475	0.545	0.253	
33.6	-33.0	0.489	0.615	0.290	0.489	0.851	0.257	0.384	0.364	0.467	
52.8	-33.0	0.195	0.031	0.000	0.195	0.529	0.272	0.265	0.000	0.186	
72.0	-33.0	0.350	-0.737	0.000	0.350	0.375	0.000	0.000	0.000	0.042	
91.2	-33.0	0.000	0.000	0.000	0.000	0.297	0.000	0.000	0.000	0.037	

# IMAGES 89 TO 96:

## FLOW FROM FIRE COMPARTMENT (Z-PLANE)

660 mm long compartment; 200 mm deep downstand;  
no balcony; 4.61 kw heat source

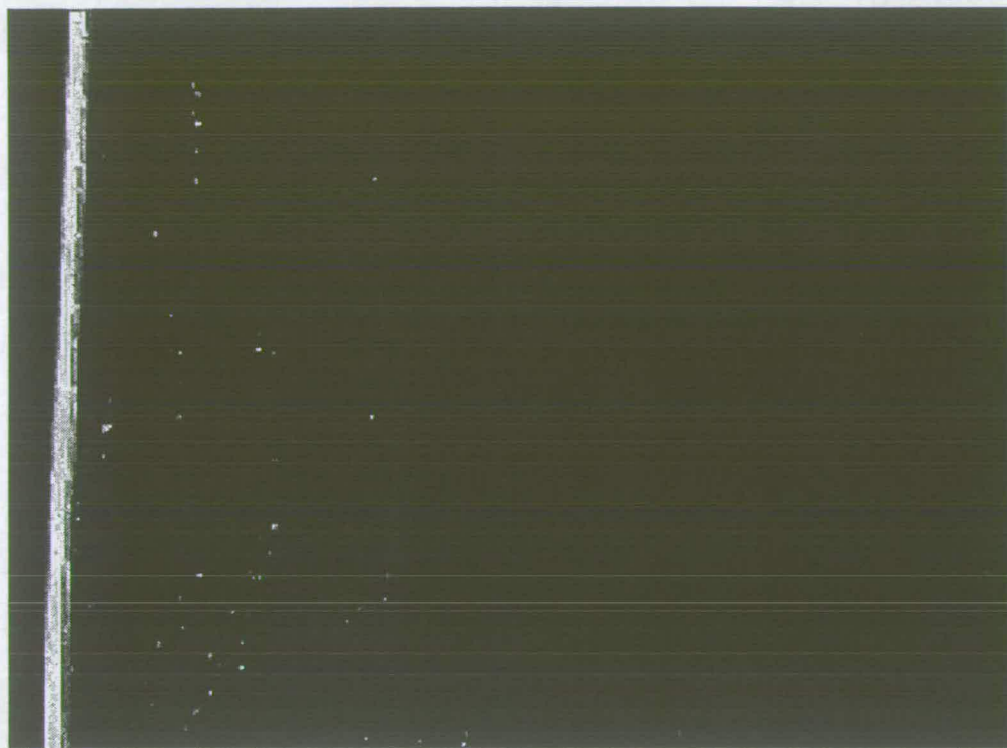


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 89 - 96

Interrogation areas 18.4 mm x 18.4 mm.

SCALE: 1 PIXEL = 0.575 MM

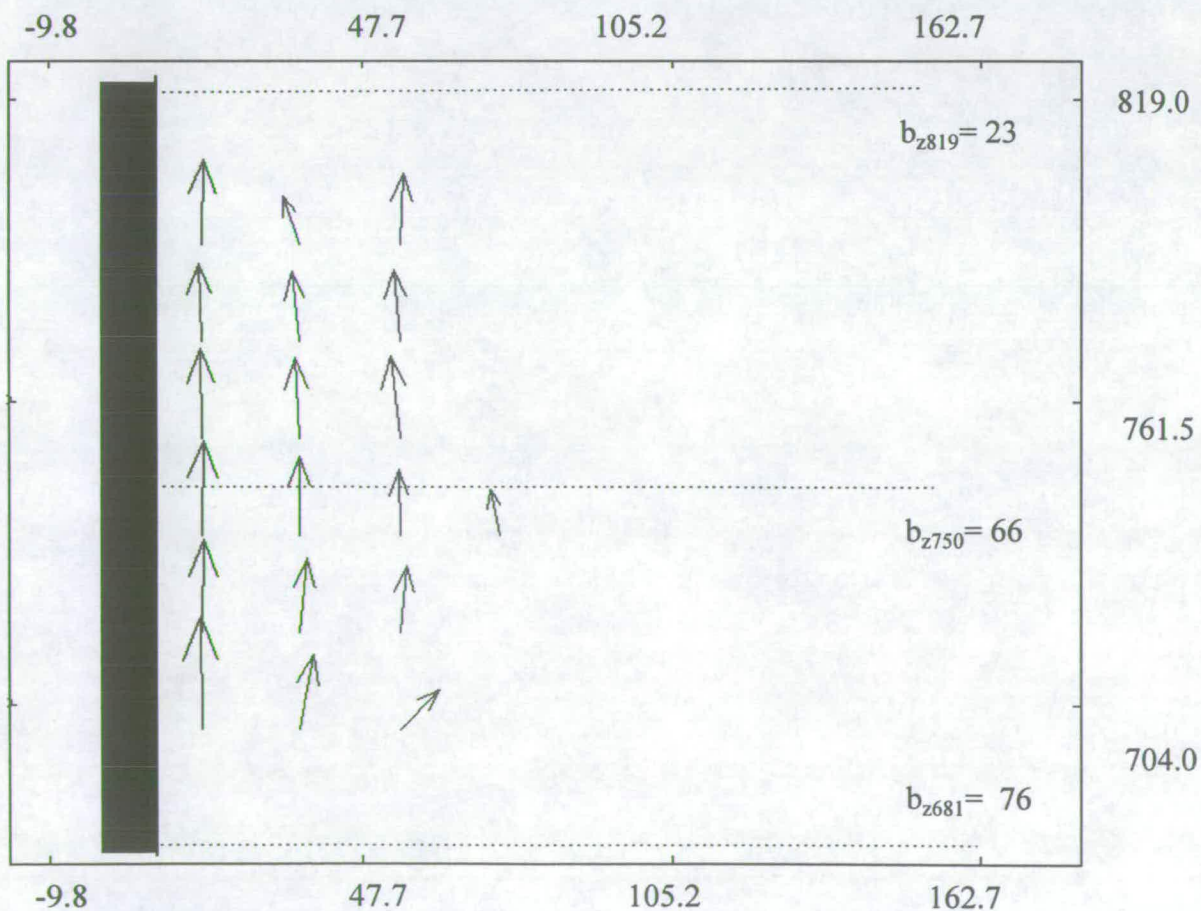
File references: d200h03, d200h06, d200h07, d200h08, d200h09, d200h10, d200h11, d200h13



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819} = 23$

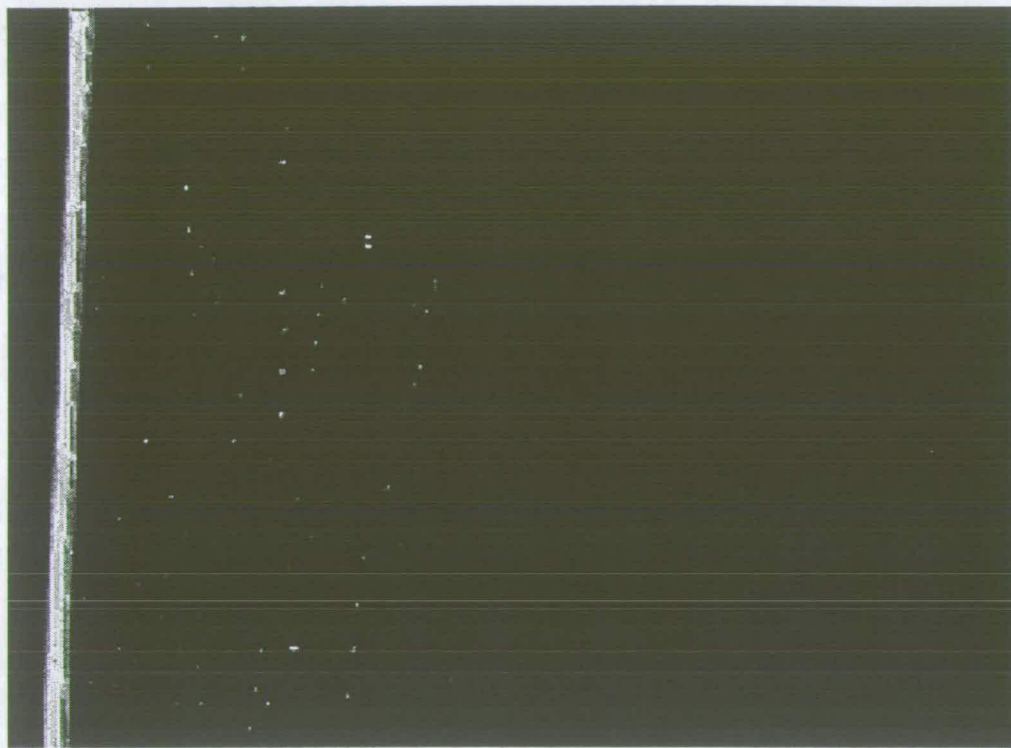
$b_{z750} = 66$

$b_{z681} = 76$

VECTOR MAP

IMAGE NO. 89

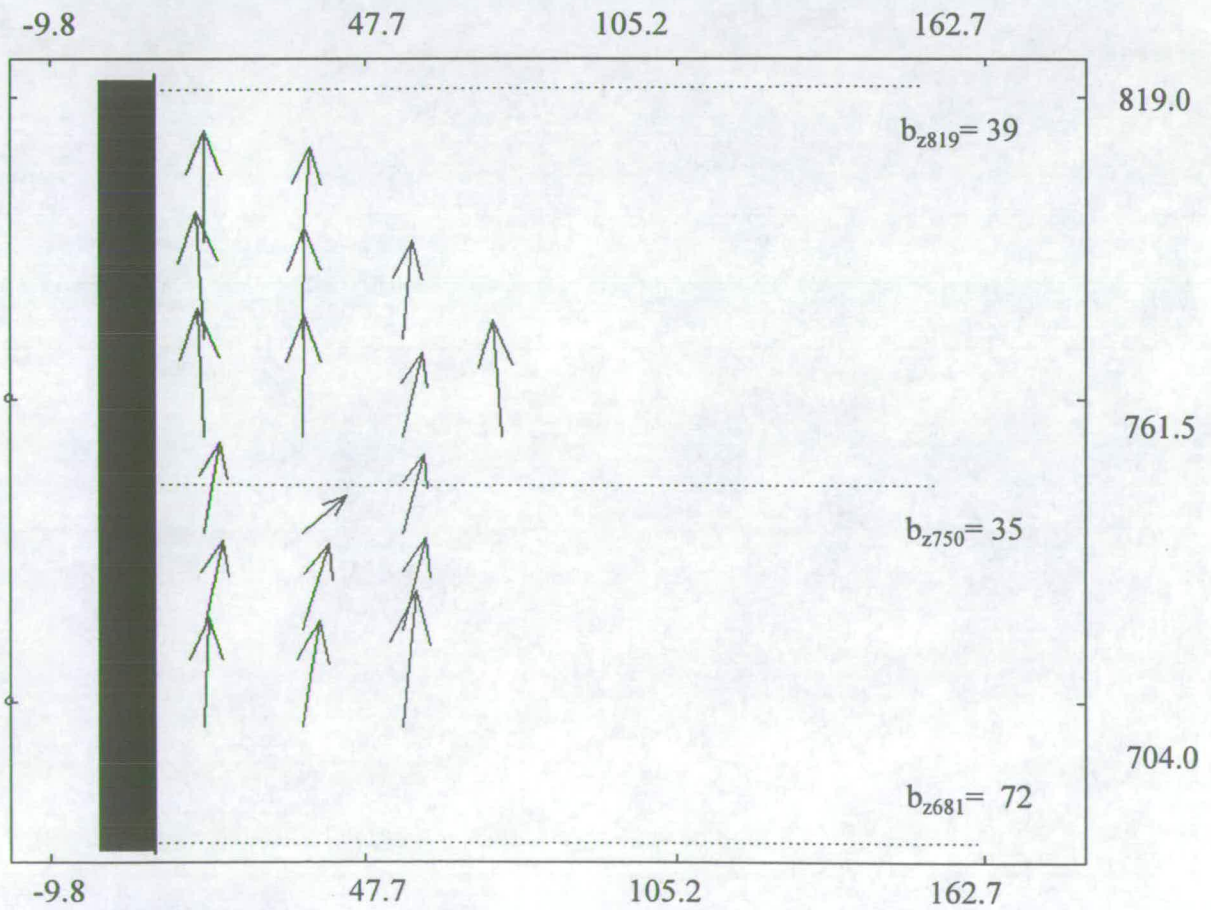
(REF.: D200H03)



138 MM

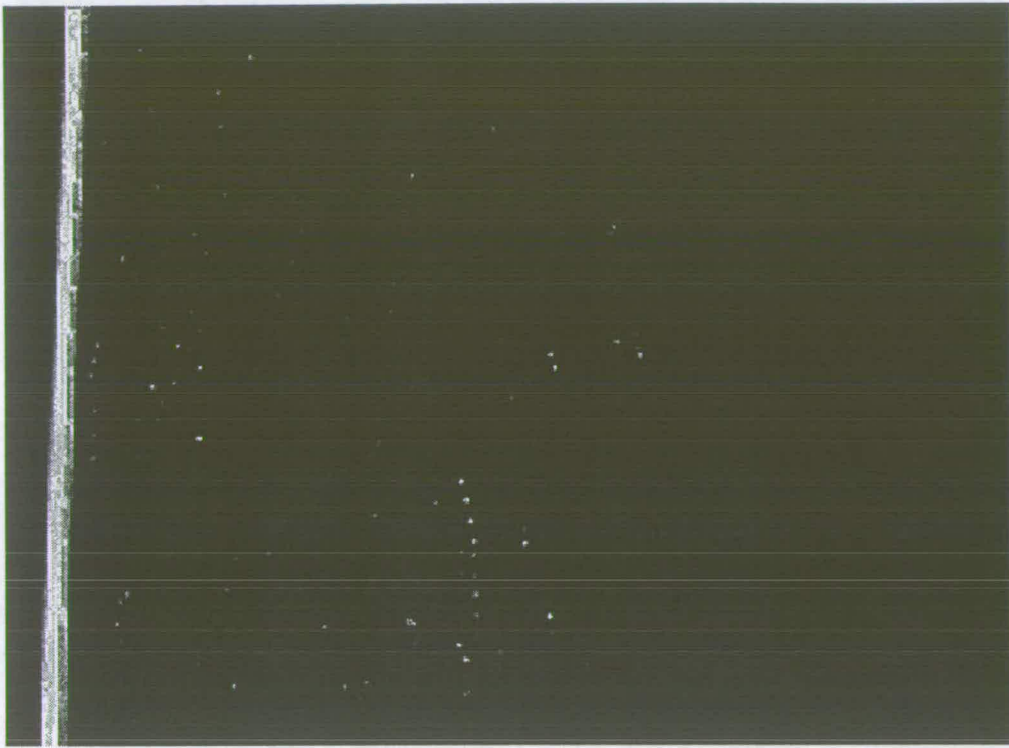
184 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 90

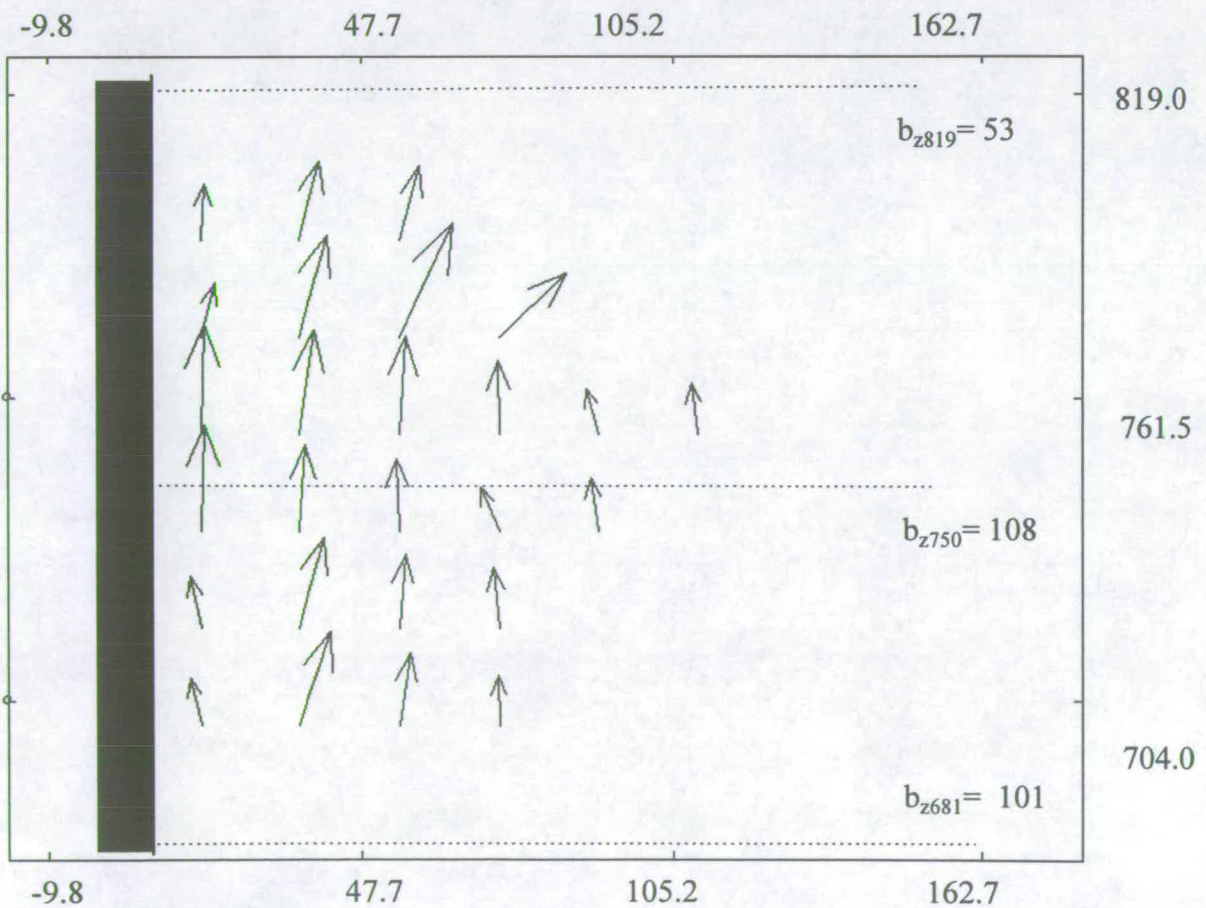
(REF.: D200H06)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819} = 53$

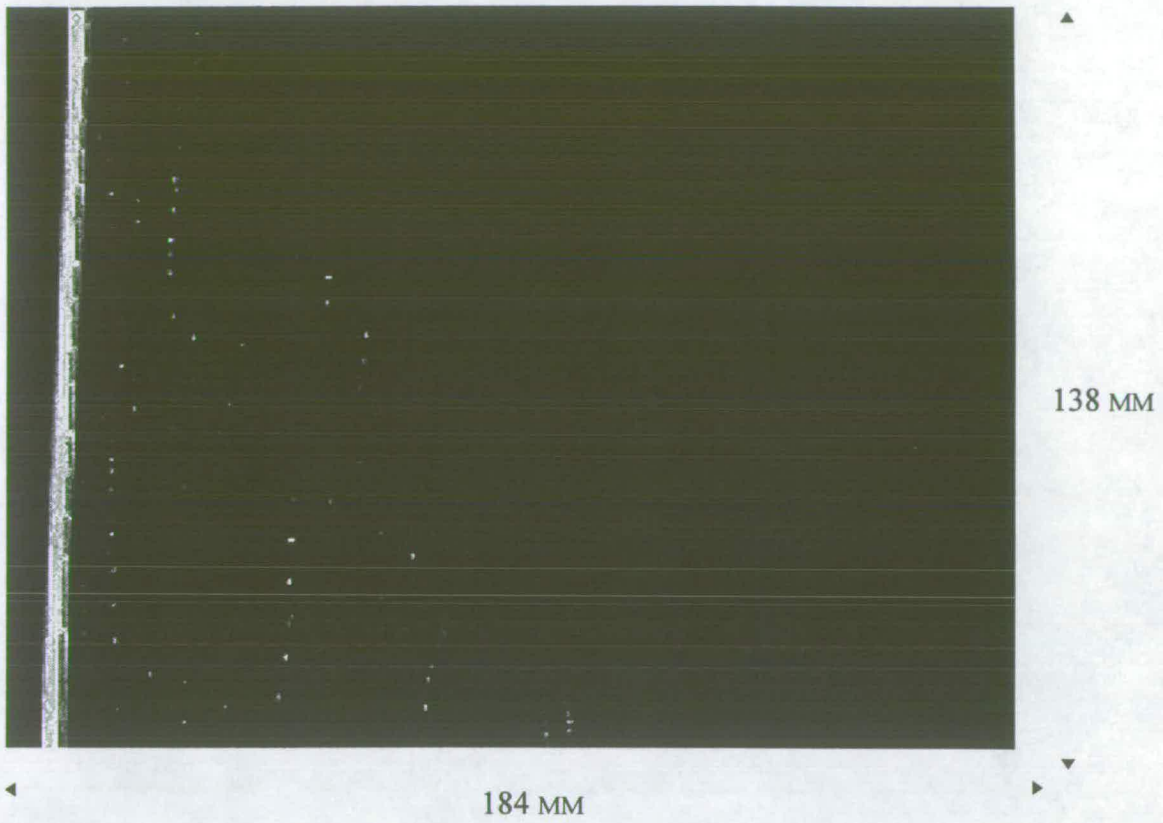
$b_{z750} = 108$

$b_{z681} = 101$

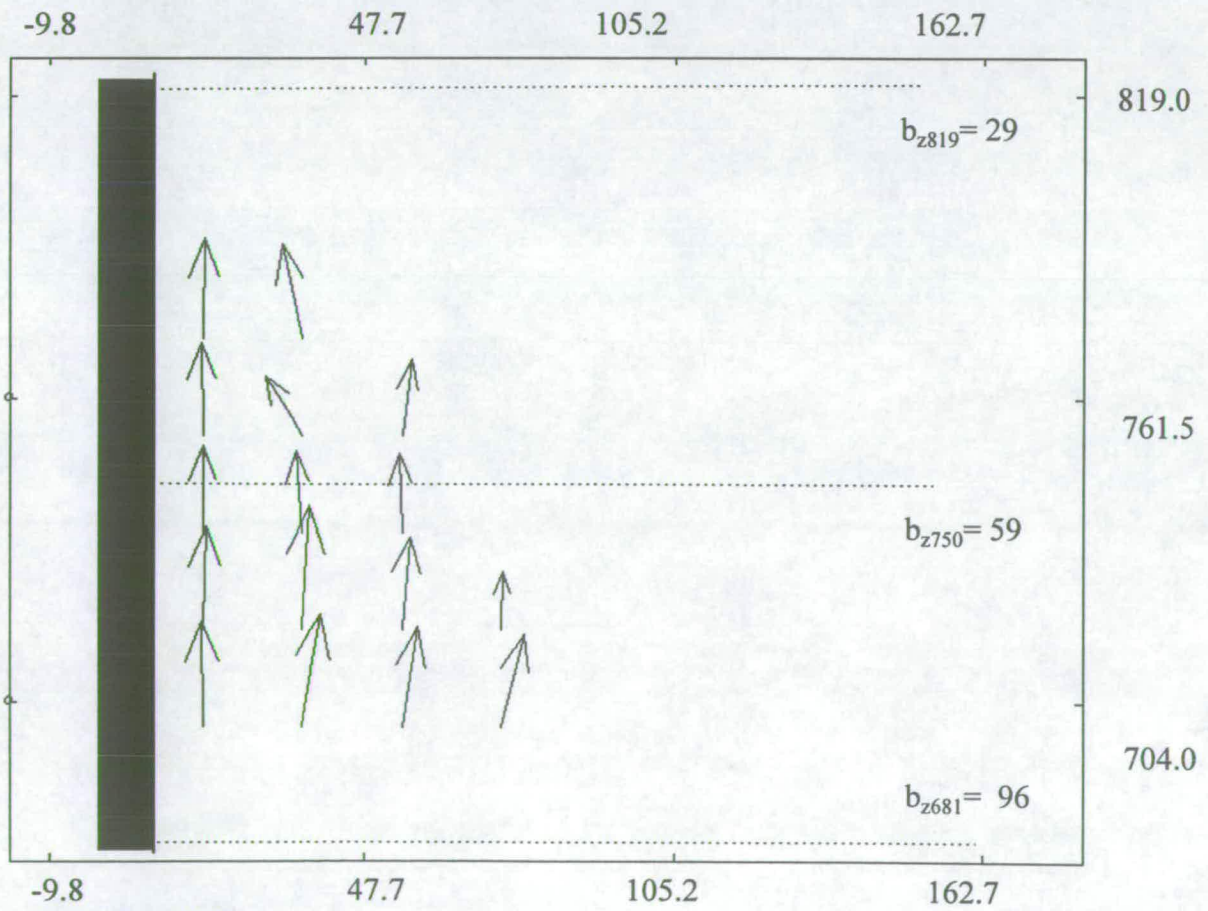
VECTOR MAP

IMAGE NO. 91

(REF.: D200H07)

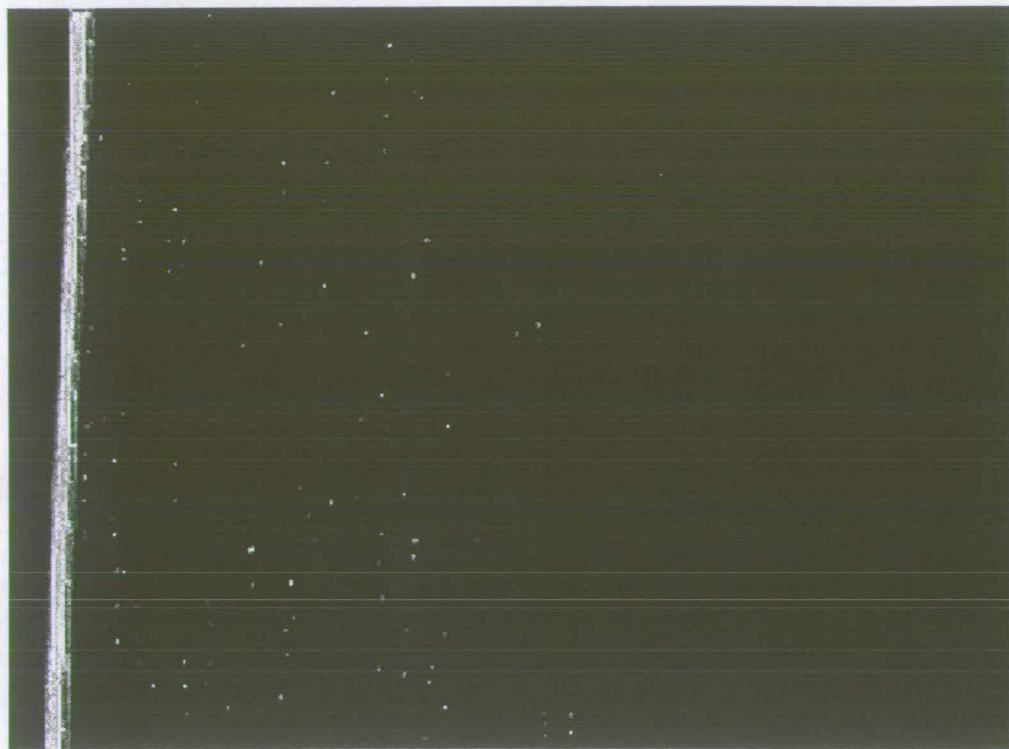


ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 92

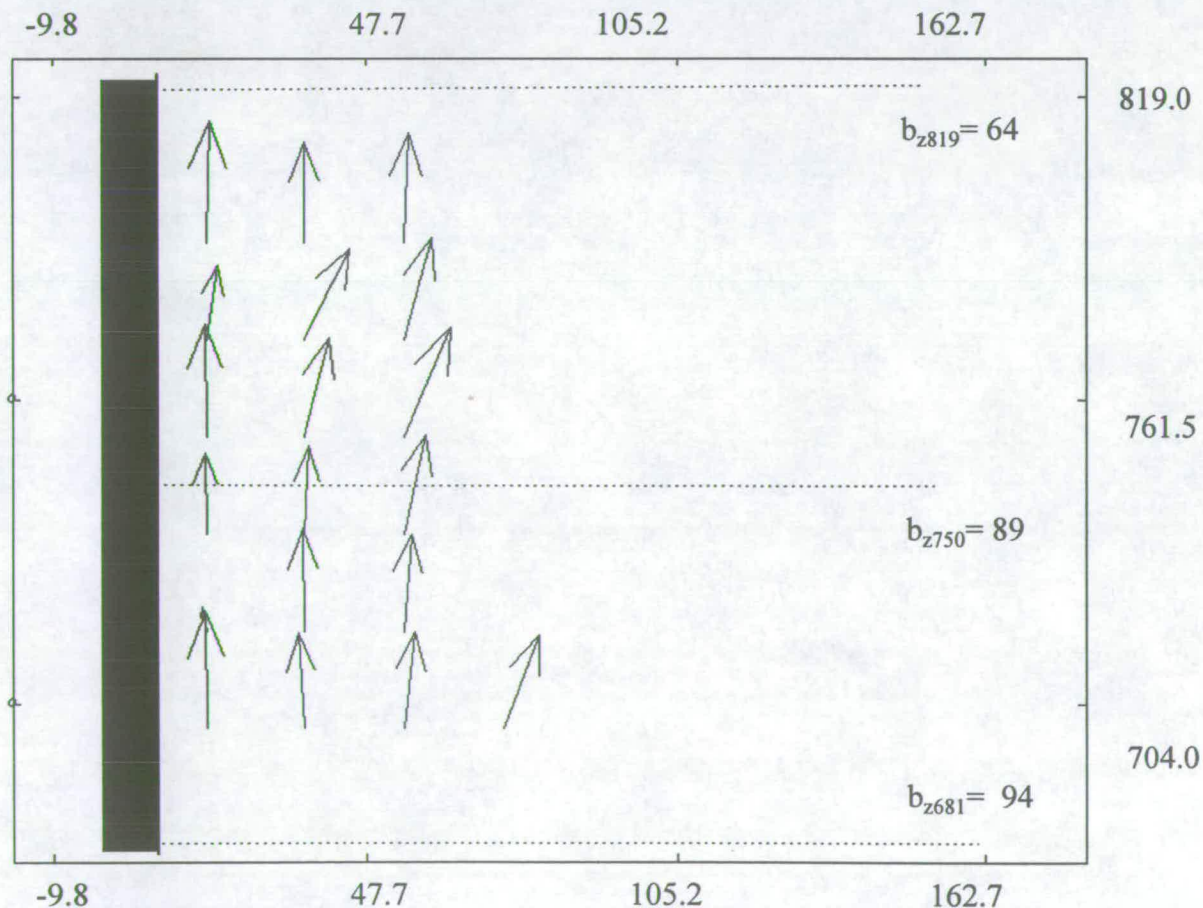
(REF.: D200H08)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819} = 64$

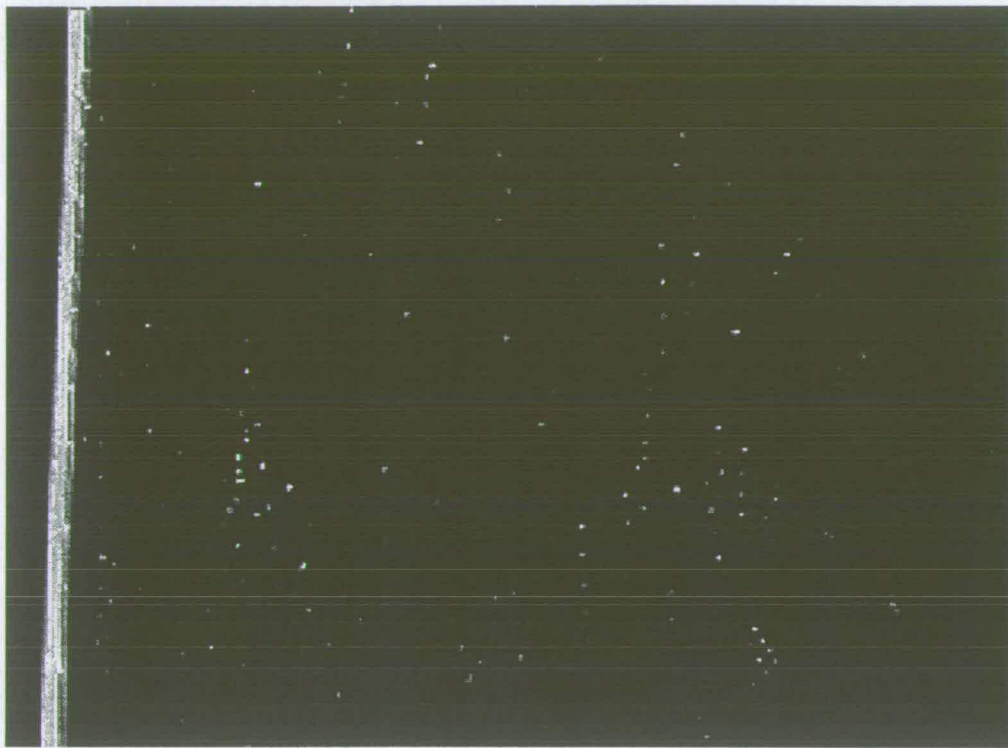
$b_{z750} = 89$

$b_{z681} = 94$

VECTOR MAP

IMAGE NO. 93

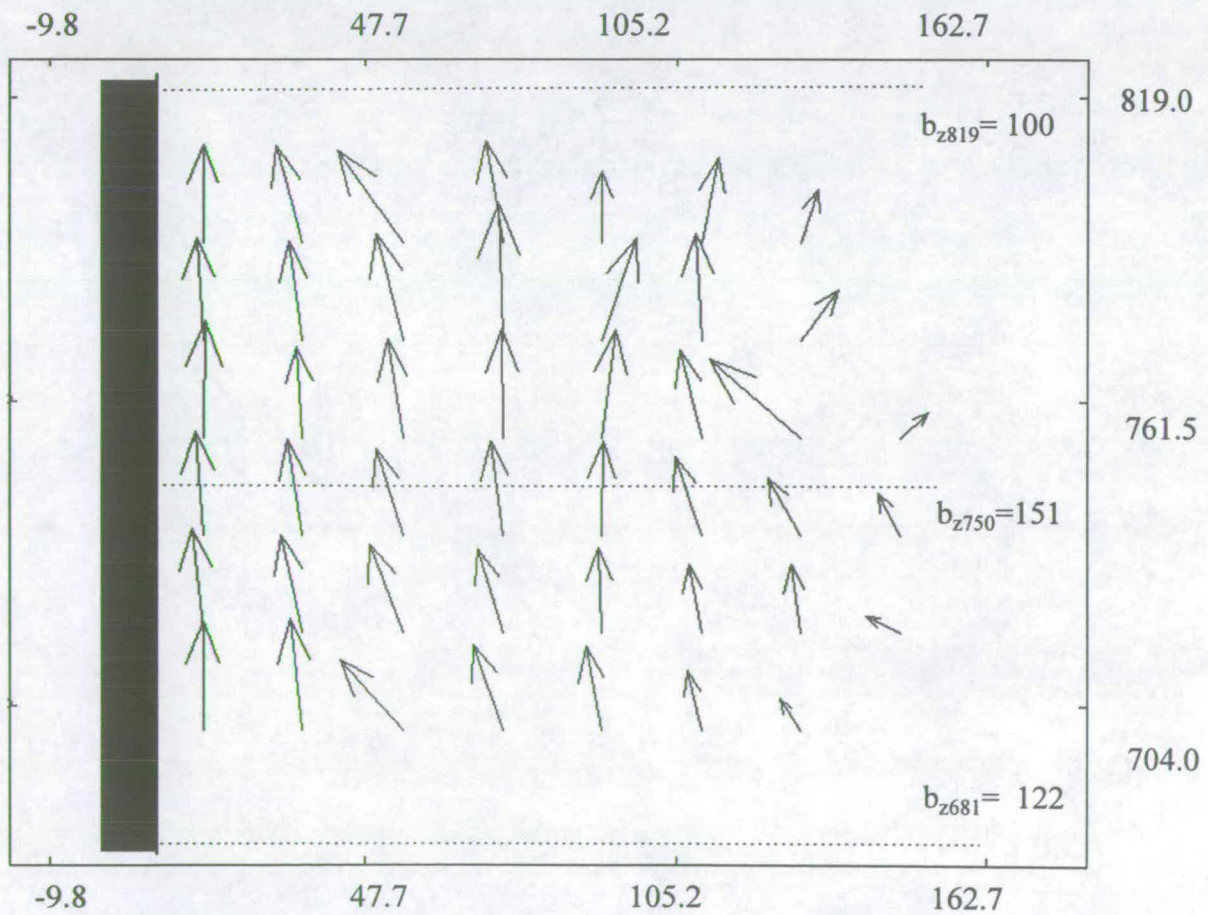
(REF.: D200H09)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819}=100$

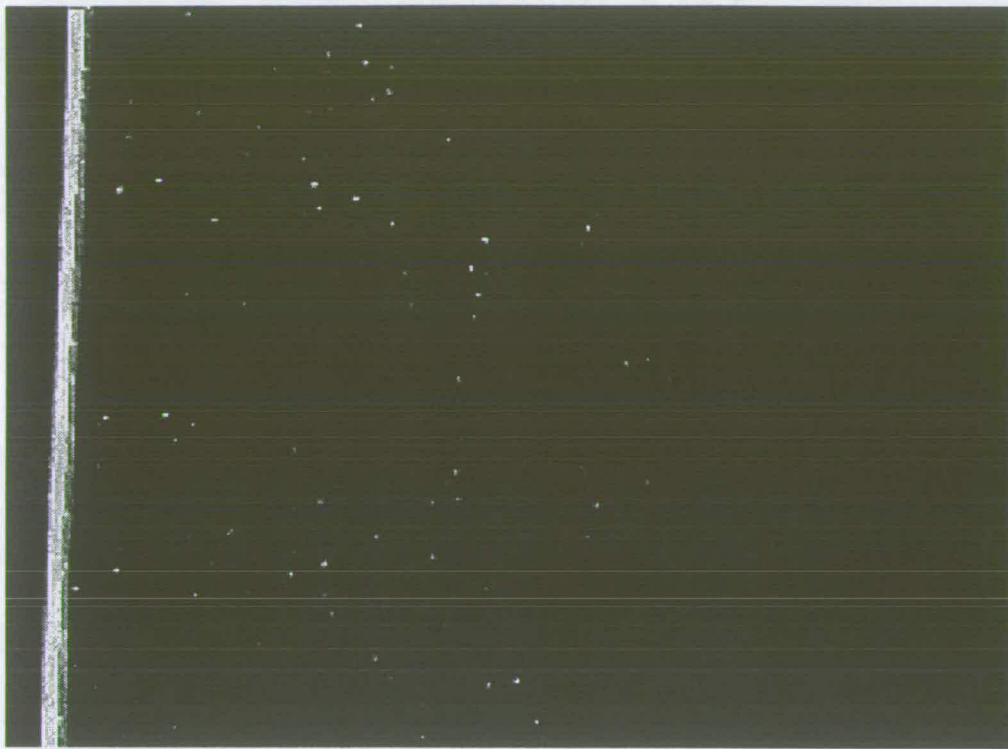
$b_{z750}=151$

$b_{z681}=122$

VECTOR MAP

IMAGE No. 94

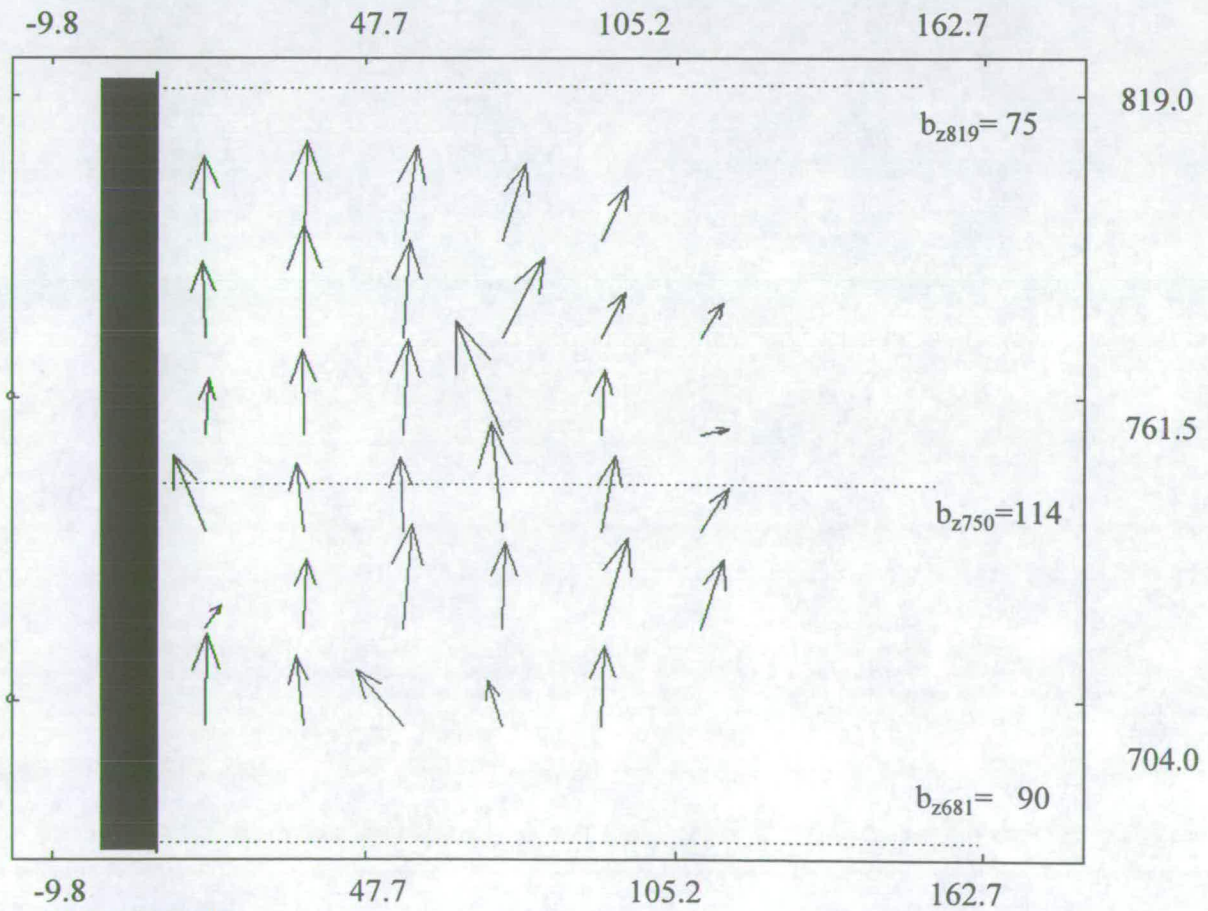
(REF.: D200H10)



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819}=75$

$b_{z750}=114$

$b_{z681}=90$

-9.8

47.7

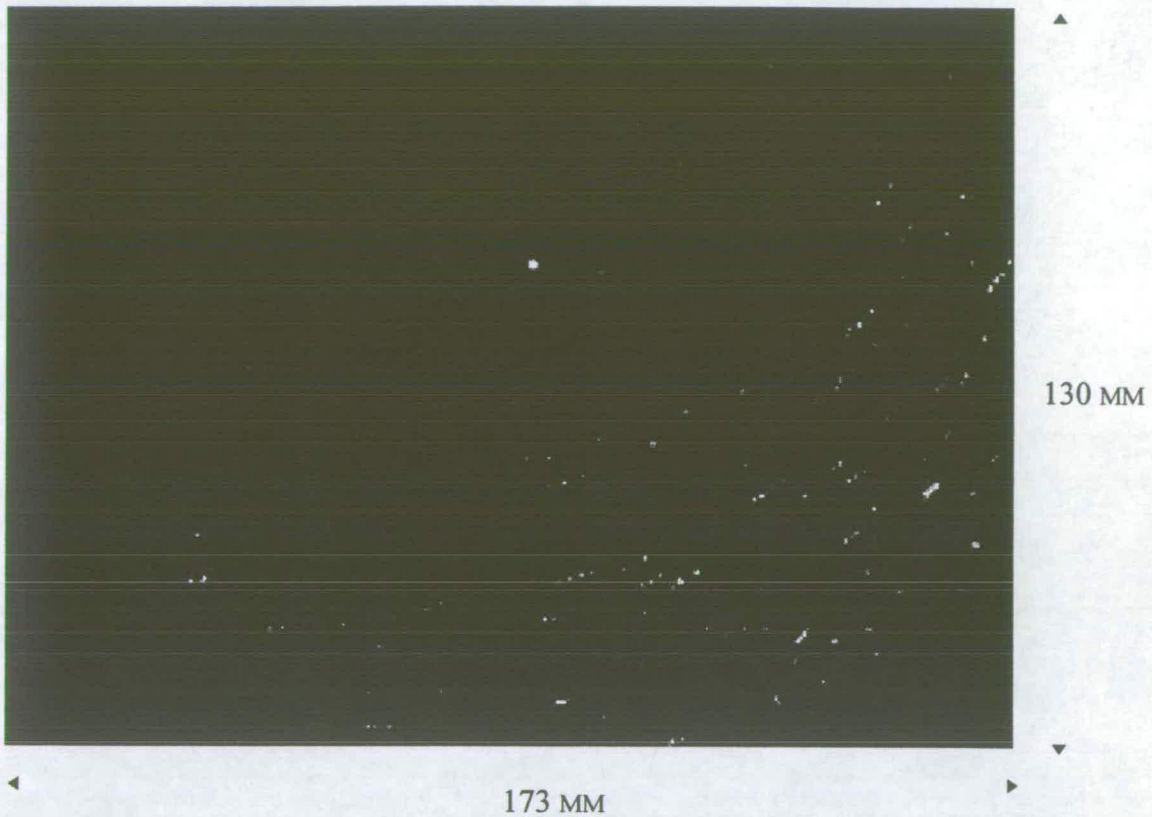
105.2

162.7

VECTOR MAP

IMAGE NO. 95

(REF.: D200H11)



ORIGINAL IMAGE

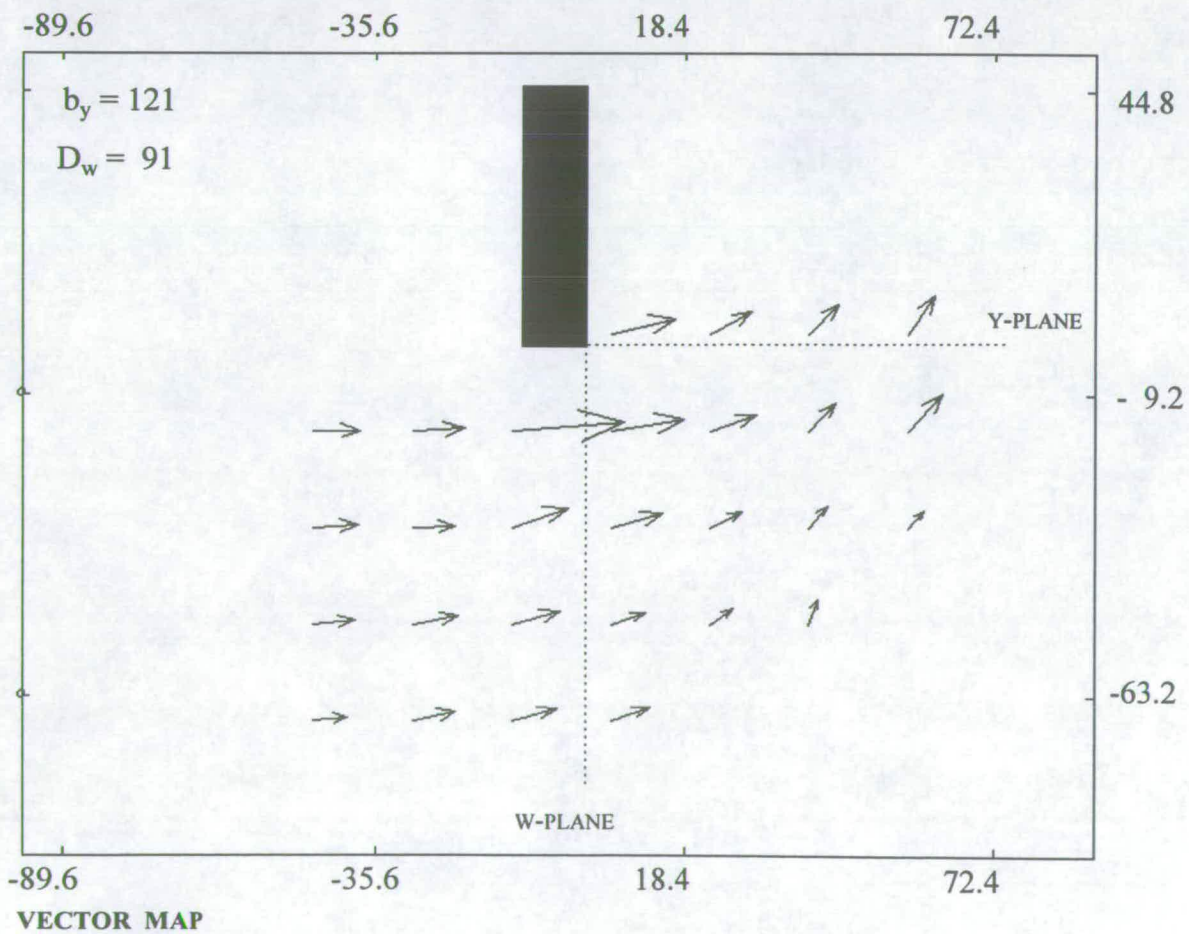
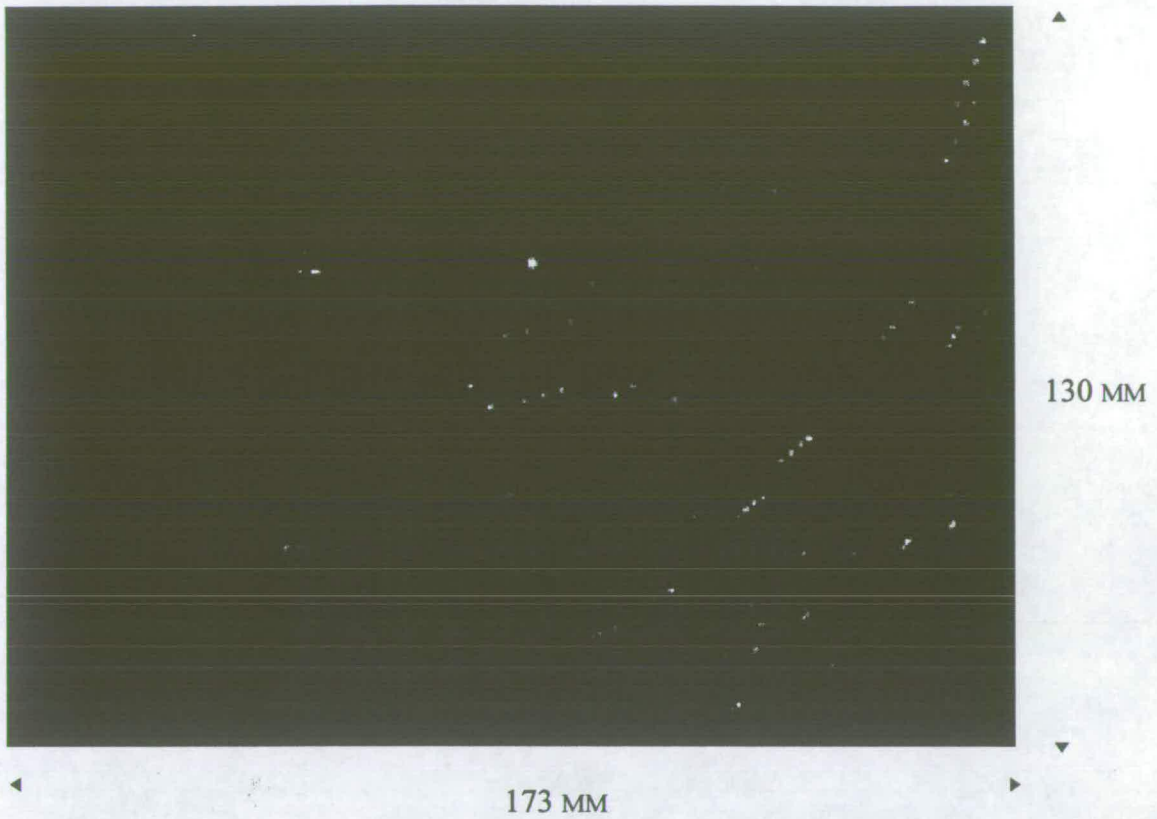
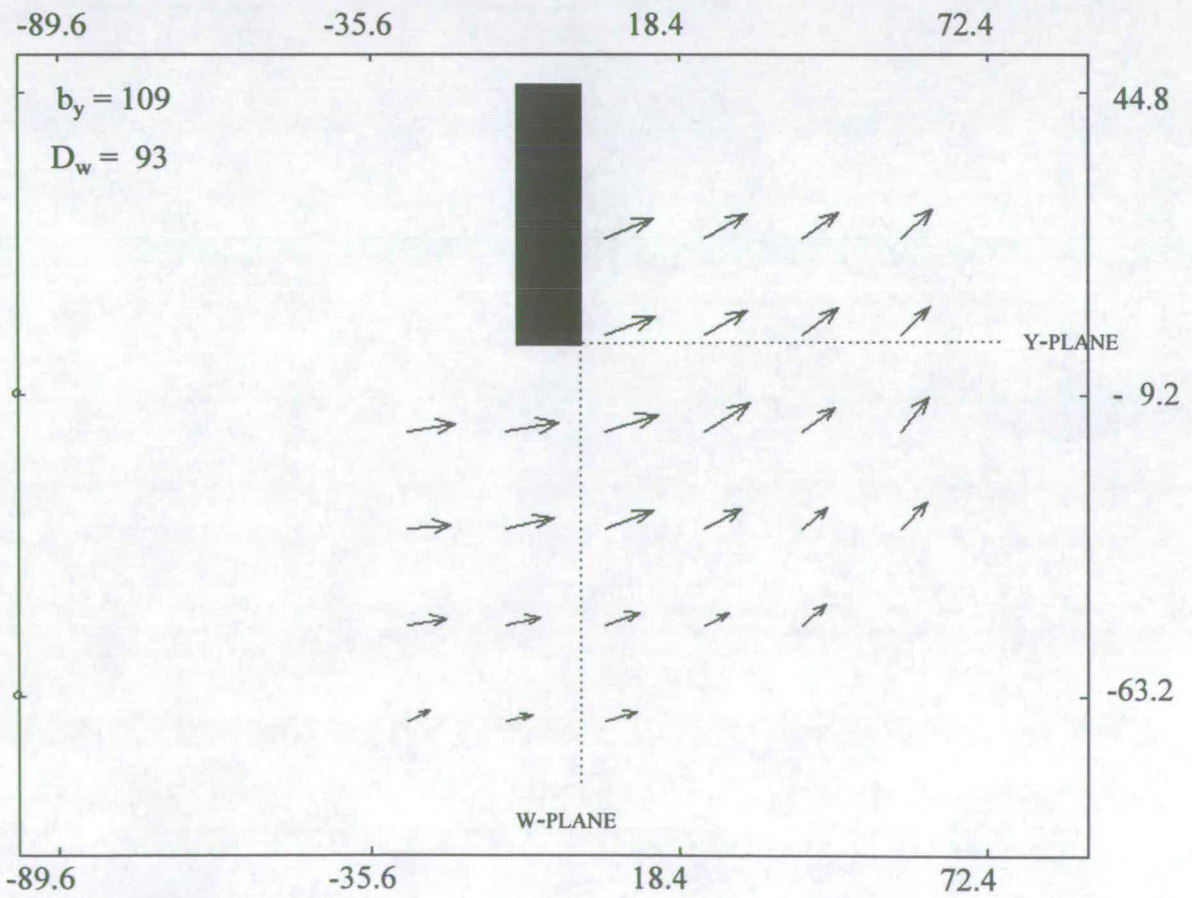


IMAGE No. 97

(REF.: LD0W01)



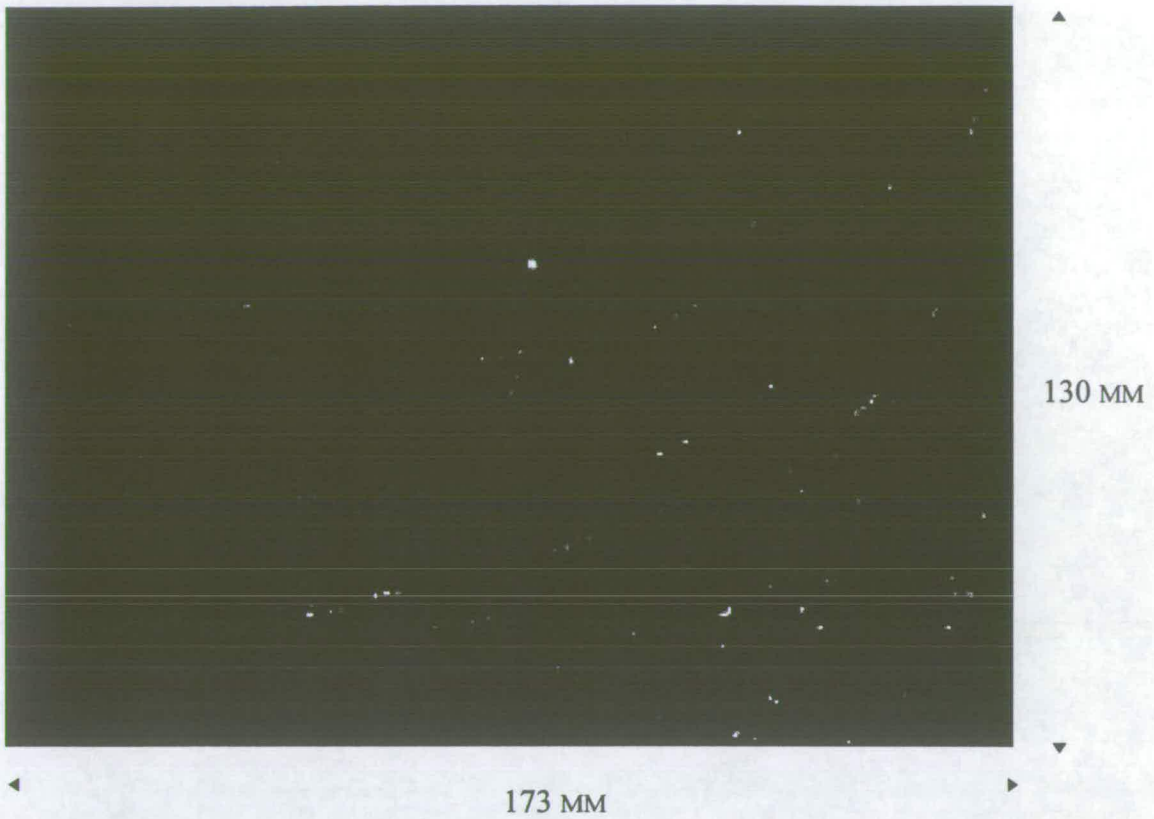
**ORIGINAL IMAGE**



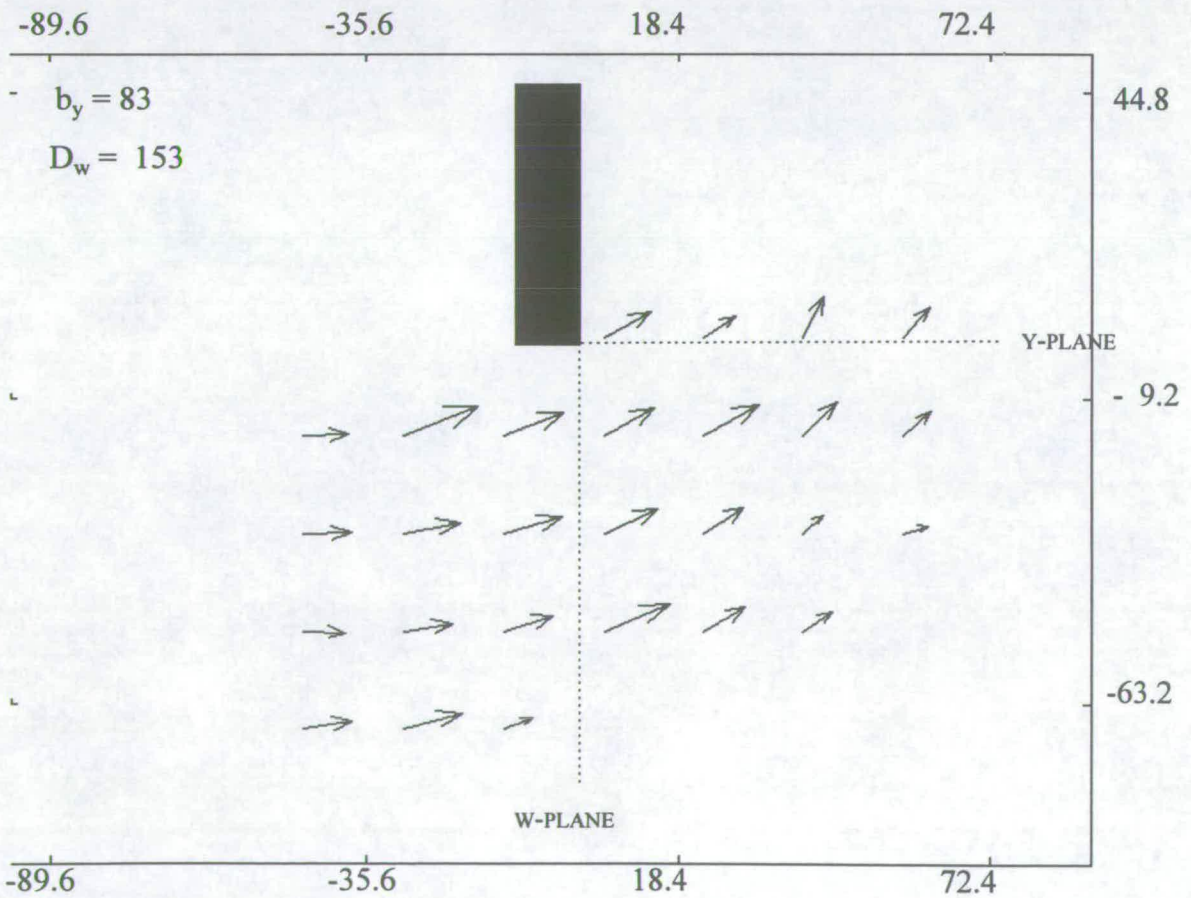
**VECTOR MAP**

**IMAGE NO. 98**

(REF.: LD0W02)



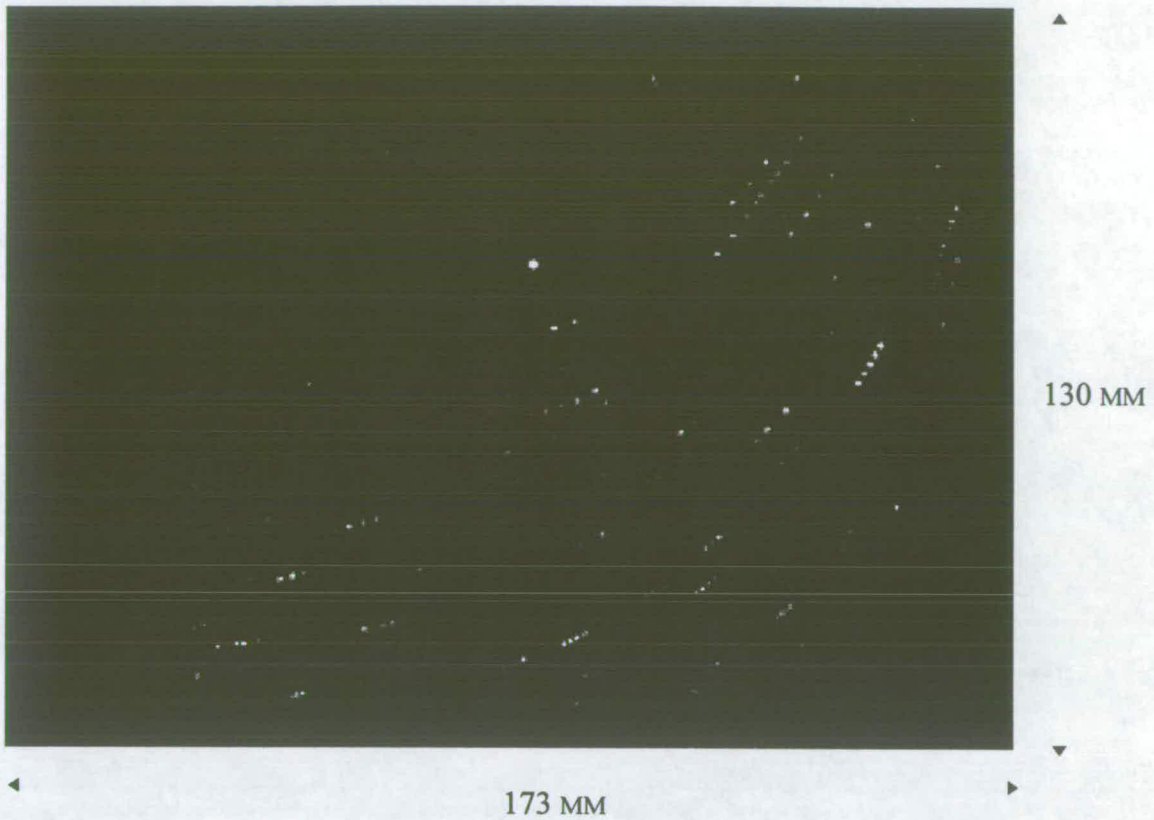
**ORIGINAL IMAGE**



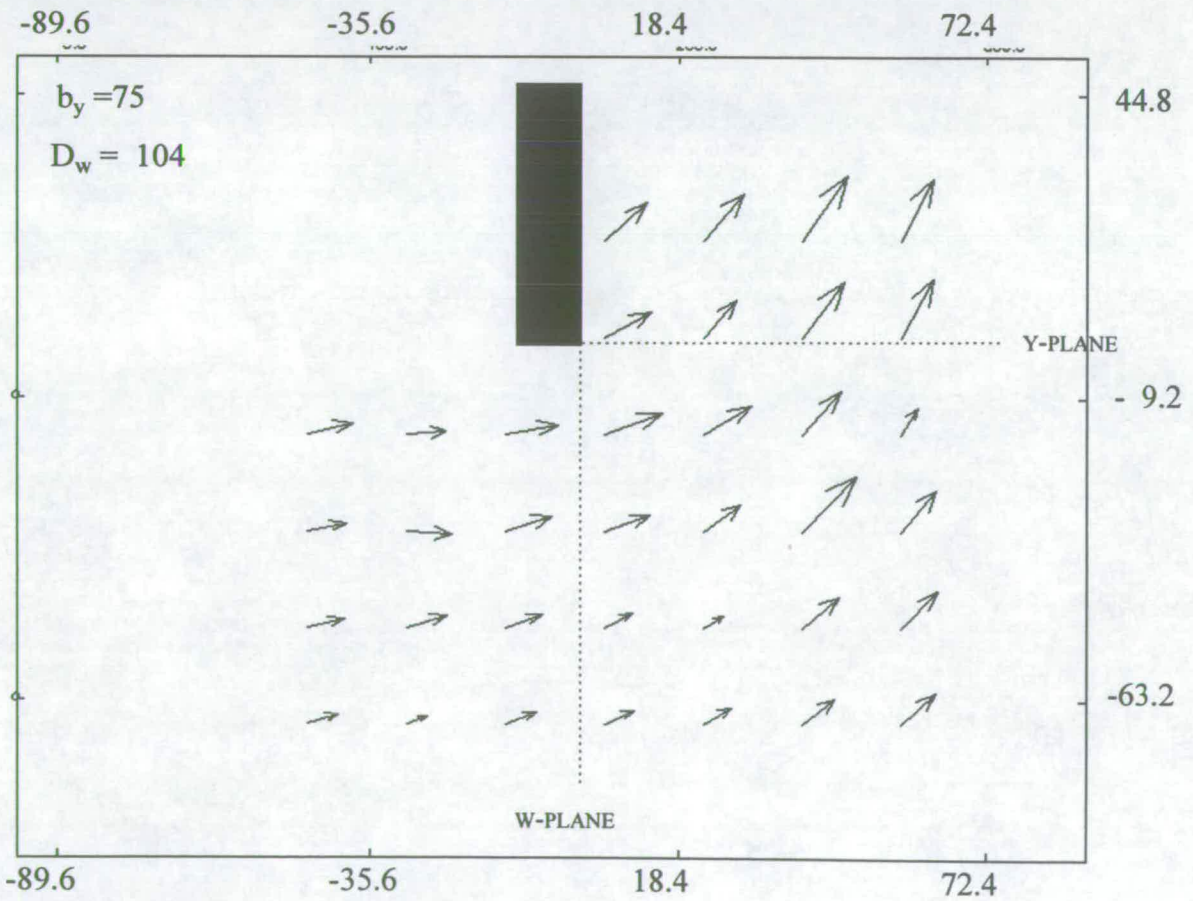
**VECTOR MAP**

**IMAGE NO. 99**

(REF.: LD0W03)



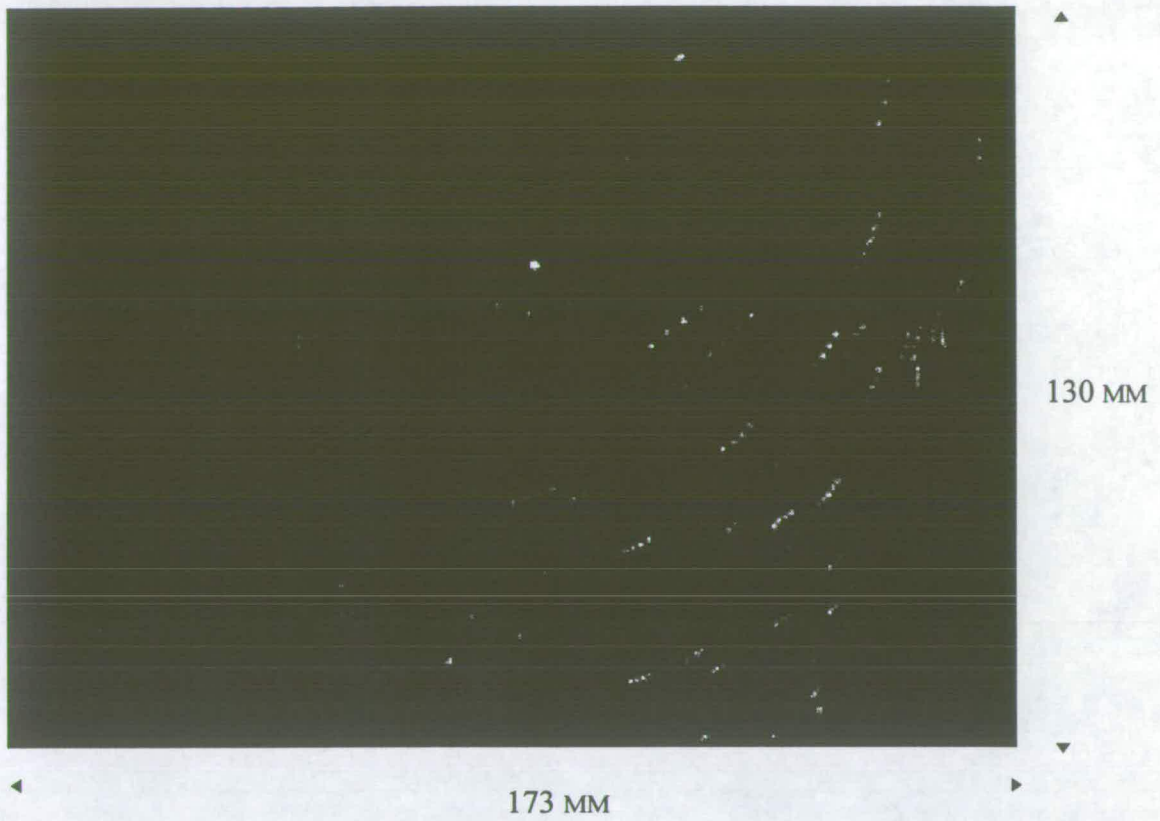
**ORIGINAL IMAGE**



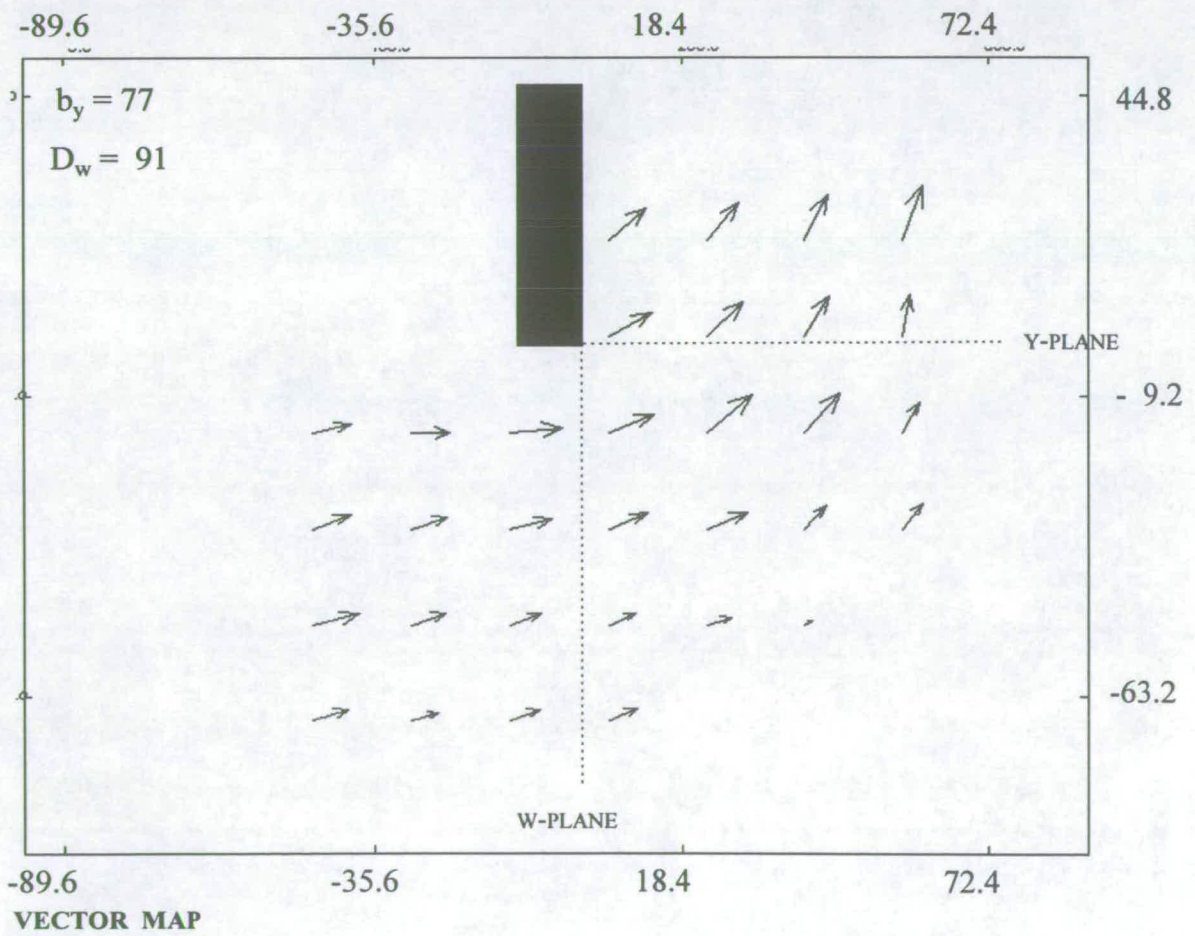
**VECTOR MAP**

**IMAGE NO. 100**

(REF.: LD0W04)

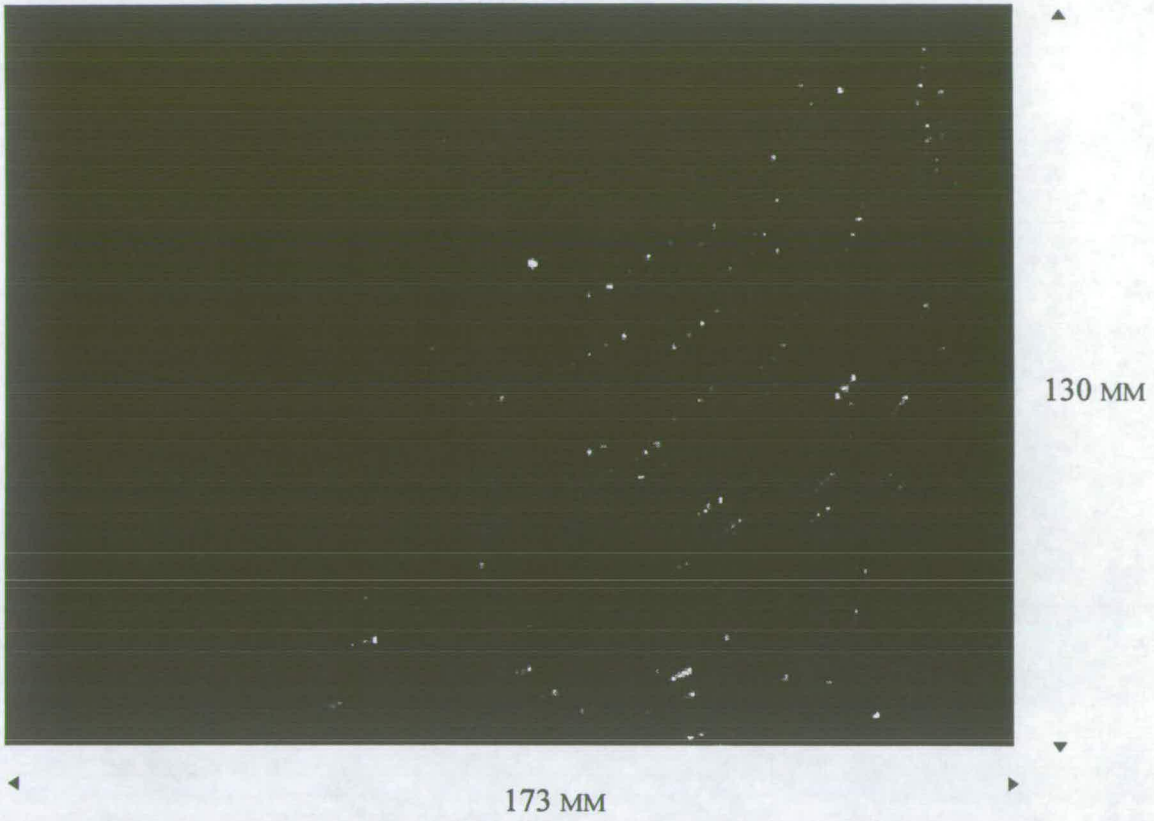


**ORIGINAL IMAGE**

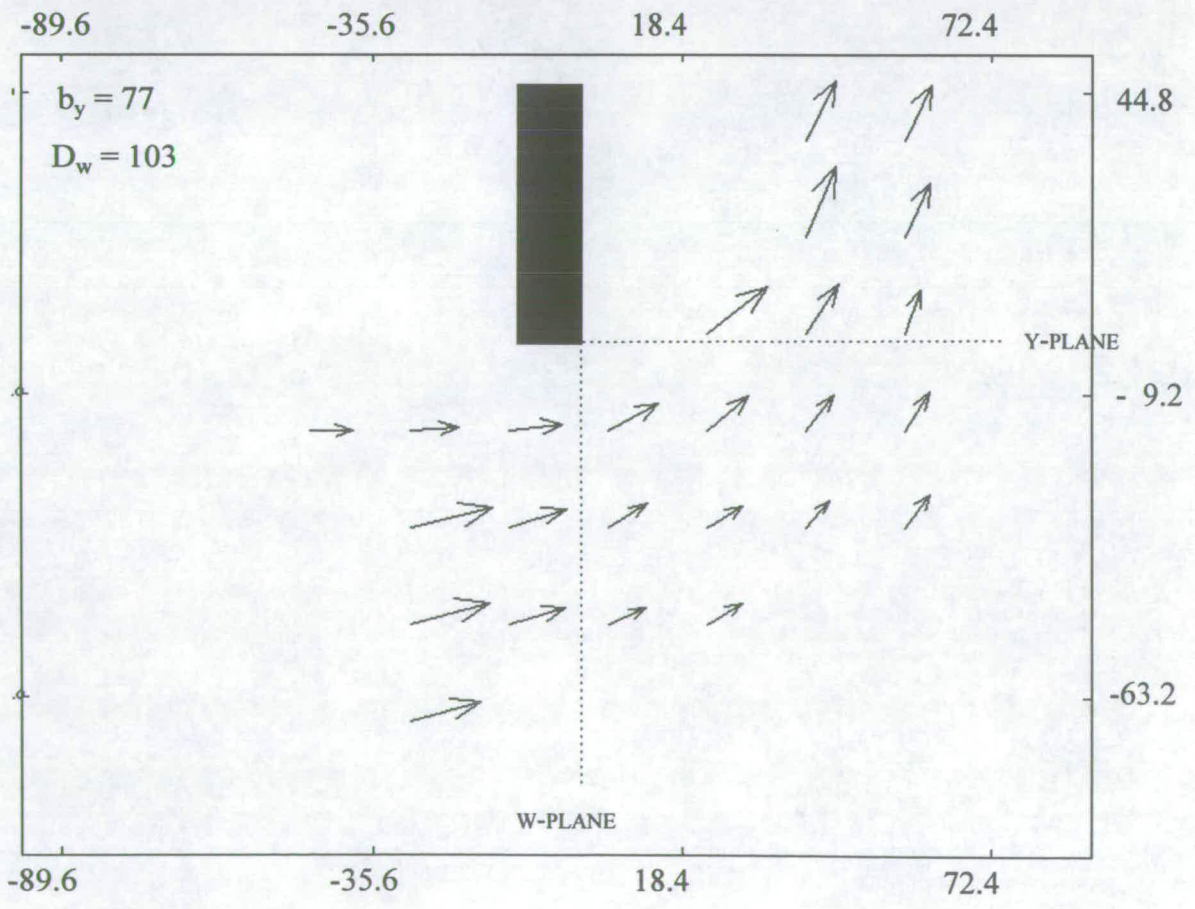


**IMAGE NO. 101**

(REF.: LD0W05)



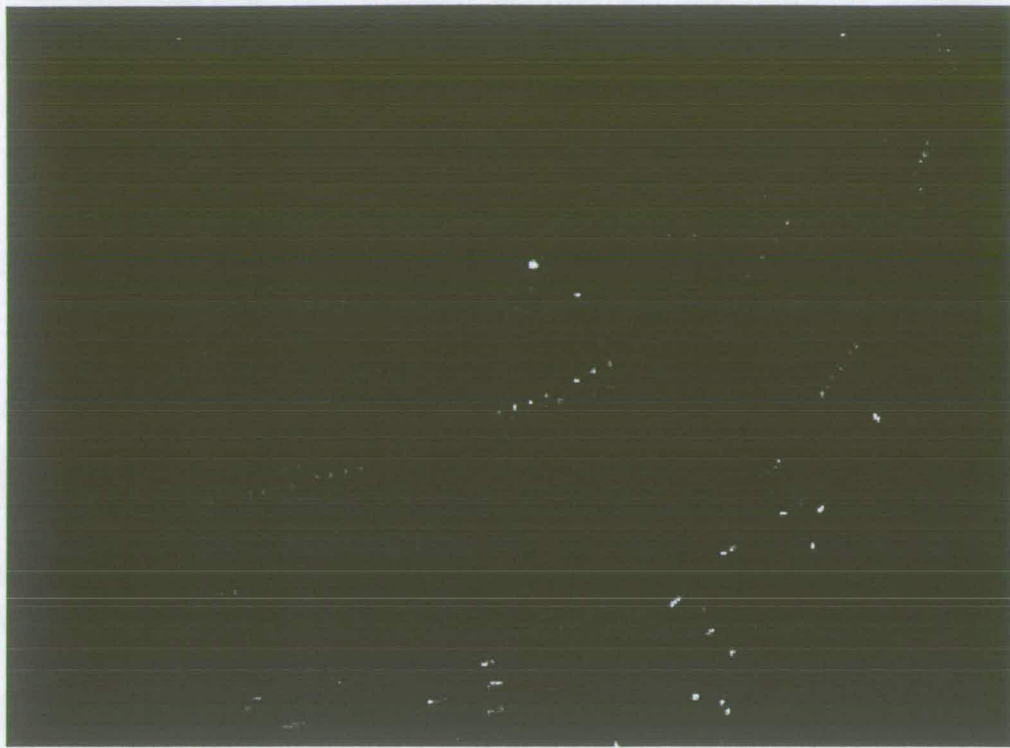
**ORIGINAL IMAGE**



**VECTOR MAP**

**IMAGE No. 102**

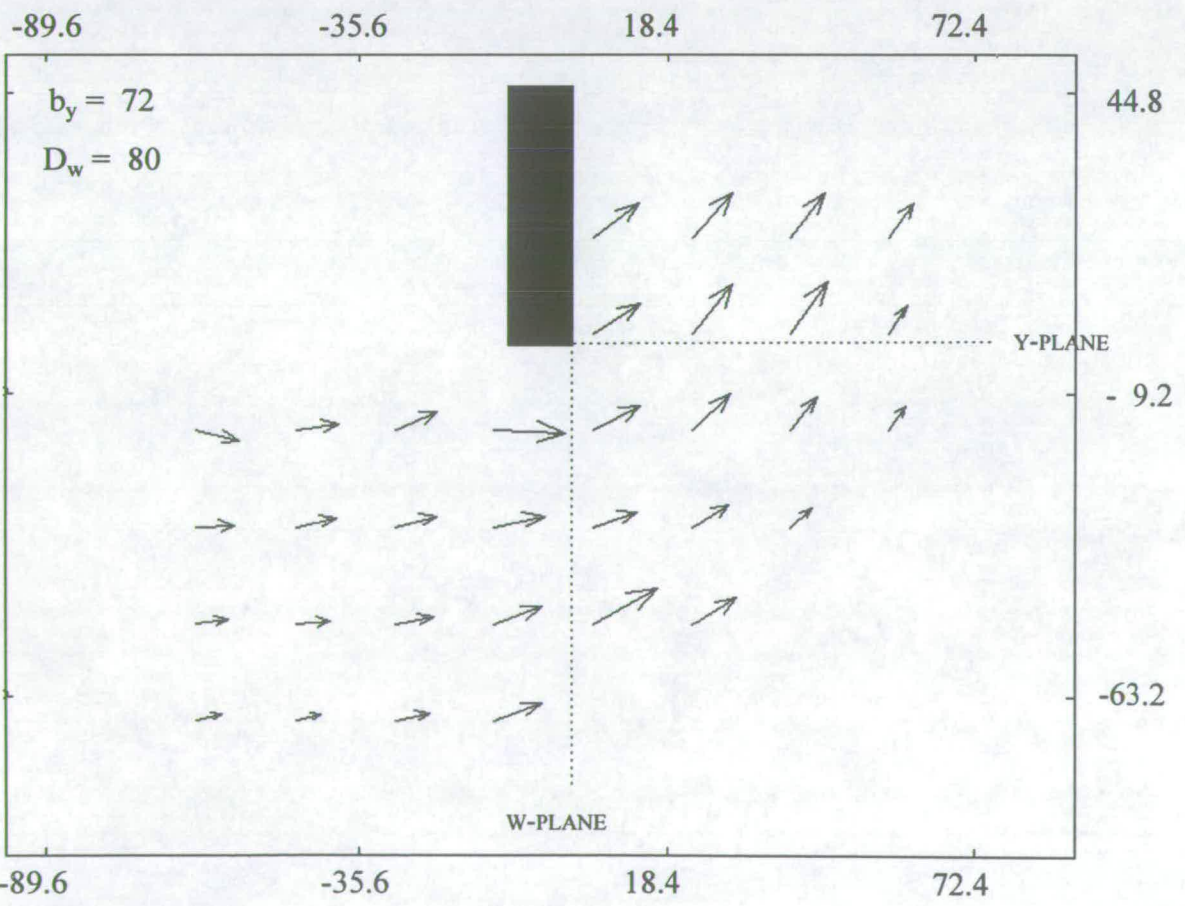
(REF.: LD0W06)



130 MM

173 MM

**ORIGINAL IMAGE**



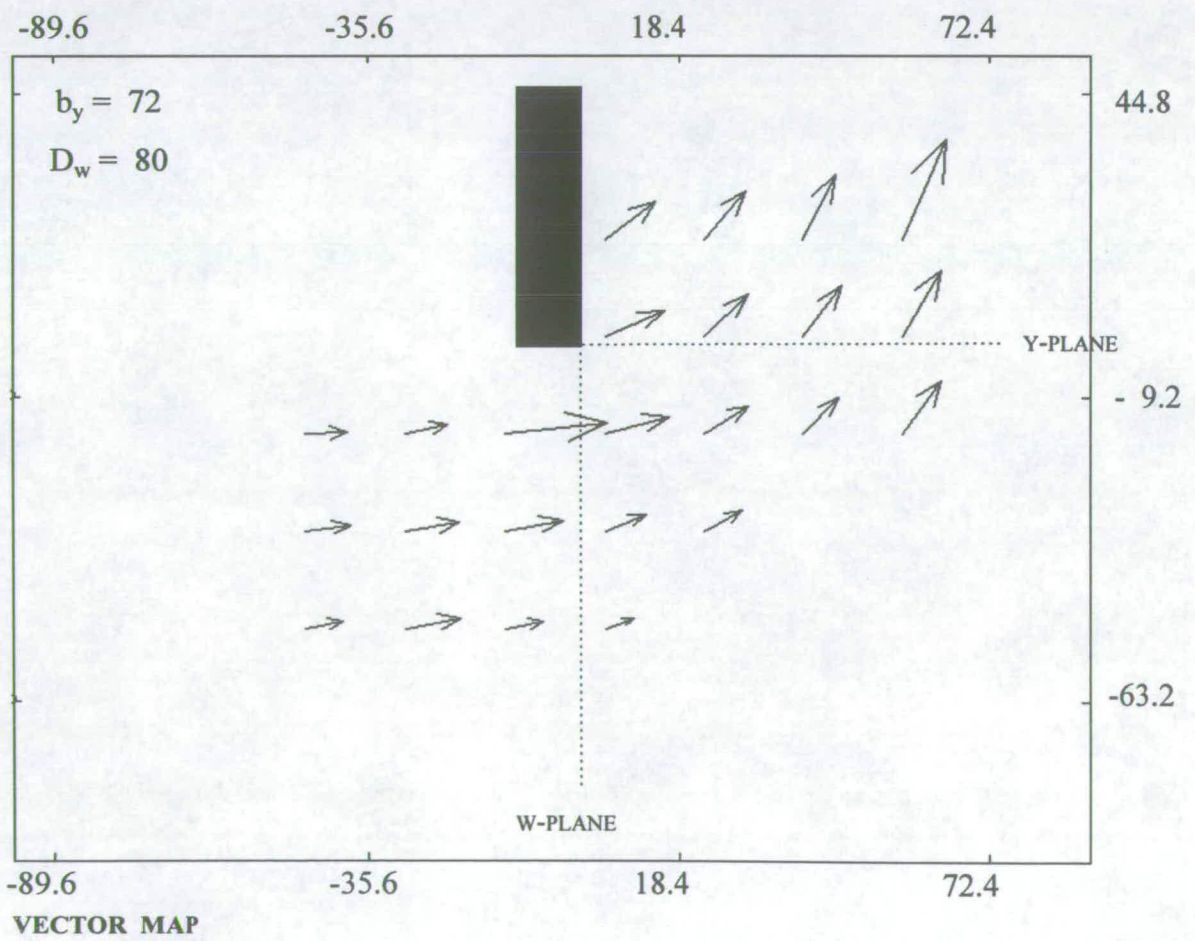
**VECTOR MAP**

**IMAGE NO. 103**

(REF.: LD0W07)

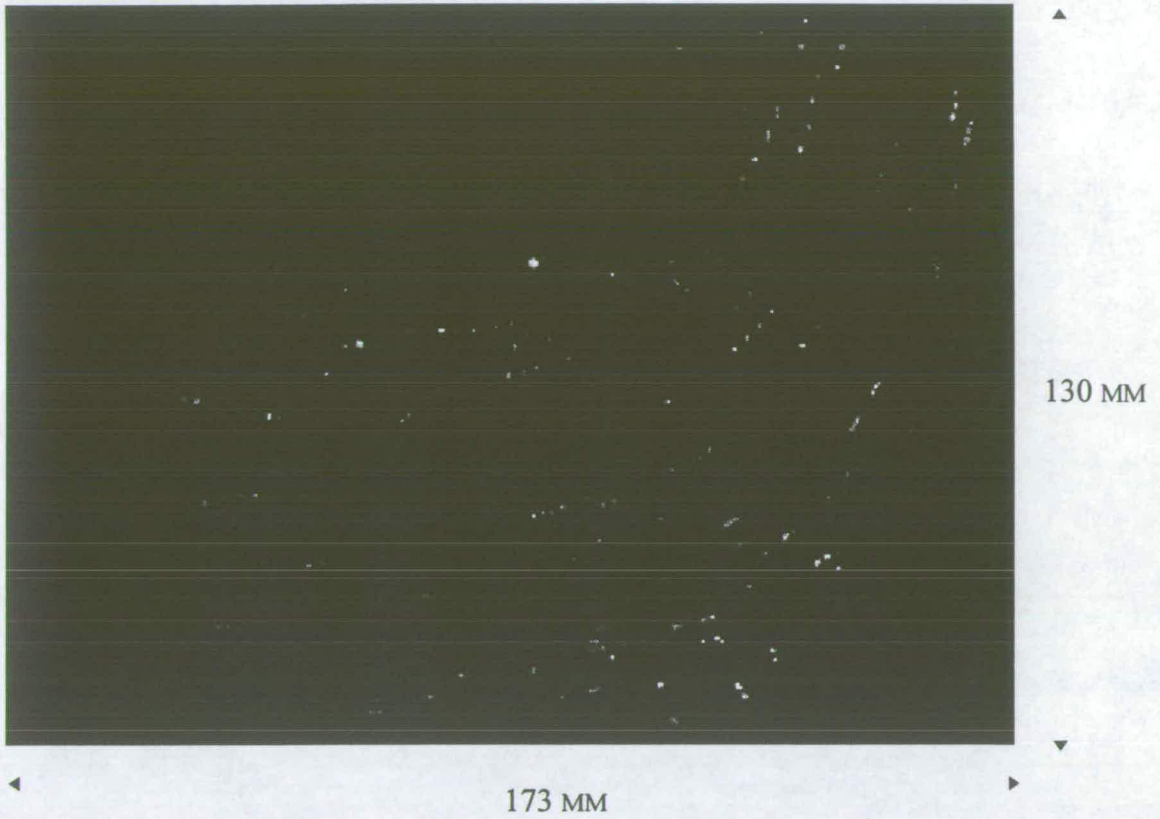


**ORIGINAL IMAGE**

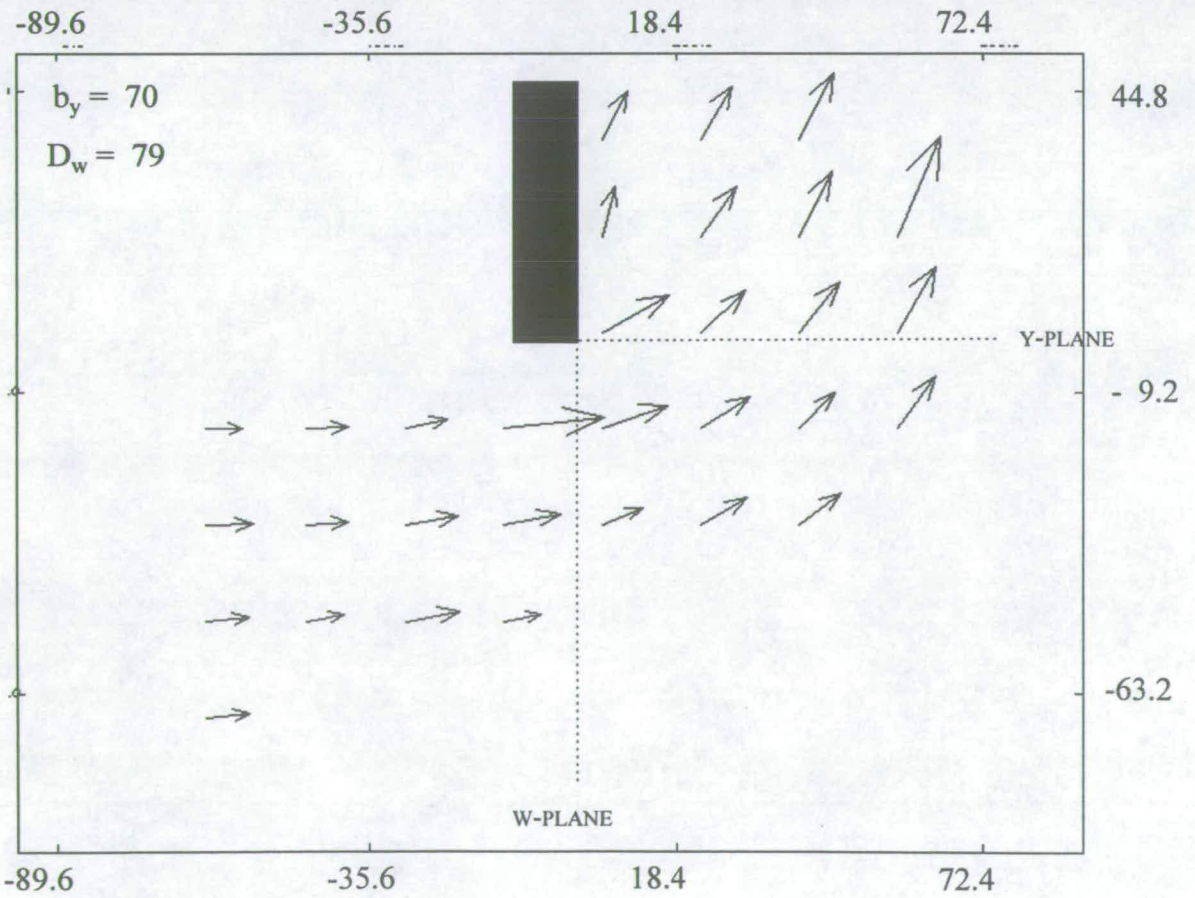


**IMAGE NO. 104**

(REF.: LD0W08)



ORIGINAL IMAGE



VECTOR MAP

Image 97 Ld0w01

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
5.4	1.6	6.875	0.742	-1.649	0.178	1.242
22.7	1.6	4.524	0.489	-2.366	0.256	1.000
40.0	1.6	3.315	0.358	-3.327	0.359	1.000
57.3	1.6	2.942	0.318	-4.186	0.452	1.388
-46.4	-15.7	5.095	0.550	0.071	-0.008	1.684
-29.1	-15.7	5.525	0.597	-0.251	0.027	1.012
-11.8	-15.7	12.026	1.299	-0.836	0.090	1.010
5.4	-15.7	7.939	0.857	-1.295	0.140	1.000
22.7	-15.7	5.076	0.548	-1.674	0.181	1.000
40.0	-15.7	2.885	0.312	-3.009	0.325	1.000
57.3	-15.7	3.768	0.407	-4.002	0.432	1.395
-46.4	-33.0	4.914	0.531	-0.185	0.020	1.008
-29.1	-33.0	4.600	0.497	-0.107	0.012	1.010
-11.8	-33.0	6.087	0.657	-2.154	0.233	1.482
5.4	-33.0	5.563	0.601	-1.519	0.164	1.162
22.7	-33.0	3.642	0.393	-1.760	0.190	1.500
40.0	-33.0	2.112	0.228	-2.492	0.269	1.000
57.3	-33.0	1.821	0.197	-1.991	0.215	1.000
-46.4	-50.2	4.579	0.495	-0.373	0.040	1.059
-29.1	-50.2	4.959	0.536	-0.867	0.094	1.090
-11.8	-50.2	5.262	0.568	-1.421	0.153	1.019
5.4	-50.2	3.680	0.397	-1.299	0.140	1.700
22.7	-50.2	2.511	0.271	-1.689	0.182	1.016
40.0	-50.2	1.039	0.112	-2.816	0.304	1.131
-46.4	-67.5	3.786	0.409	-0.243	0.026	1.998
-29.1	-67.5	4.620	0.499	-0.840	0.091	1.029
-11.8	-67.5	4.837	0.522	-1.255	0.136	1.268
5.4	-67.5	4.209	0.455	-1.369	0.148	1.059

Im 98		Ld0w02		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
5.4	18.9	5.273	0.569	-2.068	0.223	1.000	
22.7	18.9	4.703	0.508	-2.592	0.280	1.001	
40.0	18.9	3.983	0.430	-2.816	0.304	1.000	
57.3	18.9	3.495	0.378	-3.028	0.327	1.036	
5.4	1.6	5.497	0.594	-1.885	0.204	1.602	
22.7	1.6	4.791	0.517	-2.666	0.288	1.037	
40.0	1.6	3.854	0.416	-2.885	0.312	1.000	
57.3	1.6	3.282	0.354	-3.059	0.330	1.041	
-29.1	-15.7	5.194	0.561	-0.718	0.078	1.131	
-11.8	-15.7	5.761	0.622	-0.883	0.095	1.183	
5.4	-15.7	5.746	0.621	-1.724	0.186	1.250	
22.7	-15.7	5.107	0.552	-3.096	0.334	1.272	
40.0	-15.7	3.655	0.395	-2.585	0.279	1.000	
57.3	-15.7	3.011	0.325	-3.765	0.407	1.387	
-29.1	-33.0	4.683	0.506	-0.275	0.030	1.006	
-11.8	-33.0	5.175	0.559	-1.072	0.116	1.309	
5.4	-33.0	5.217	0.563	-1.968	0.213	1.256	
22.7	-33.0	4.149	0.448	-2.098	0.227	1.018	
40.0	-33.0	2.818	0.304	-2.312	0.250	1.269	
57.3	-33.0	2.997	0.324	-2.860	0.309	1.042	
-29.1	-50.2	4.290	0.463	-0.628	0.068	1.542	
-11.8	-50.2	3.793	0.410	-0.782	0.084	1.000	
5.4	-50.2	3.829	0.414	-1.311	0.142	1.286	
22.7	-50.2	2.758	0.298	-1.180	0.127	1.045	
40.0	-50.2	2.632	0.284	-2.259	0.244	1.683	
-29.1	-67.5	2.473	0.267	-1.021	0.110	1.063	
-11.8	-67.5	2.864	0.309	-0.534	0.058	1.106	
5.4	-67.5	3.410	0.368	-0.987	0.107	1.092	

Im 99		Ld0w03		velocity			noise
location		x	x	y	y		
x	y	pix/per	m/s	pix/per	m/s	snr	
mm	mm						
5.4	1.6	5.050	0.545	-2.667	0.288	1.082	
22.7	1.6	3.557	0.384	-2.307	0.249	1.027	
40.0	1.6	2.316	0.250	-4.373	0.472	1.000	
57.3	1.6	2.914	0.315	-3.298	0.356	1.006	
-46.4	-15.7	4.886	0.528	-0.010	0.001	1.531	
-29.1	-15.7	7.980	0.862	-3.046	0.329	1.085	
-11.8	-15.7	6.437	0.695	-2.336	0.252	1.130	
5.4	-15.7	5.402	0.583	-2.924	0.316	1.000	
22.7	-15.7	6.036	0.652	-3.244	0.350	1.852	
40.0	-15.7	3.754	0.405	-3.626	0.392	1.093	
57.3	-15.7	3.087	0.333	-2.548	0.275	1.025	
-46.4	-33.0	5.218	0.564	-0.058	0.006	1.389	
-29.1	-33.0	6.047	0.653	-1.079	0.117	1.304	
-11.8	-33.0	6.249	0.675	-1.697	0.183	1.023	
5.4	-33.0	5.820	0.629	-2.639	0.285	1.000	
22.7	-33.0	4.491	0.485	-2.783	0.301	2.385	
40.0	-33.0	2.281	0.246	-1.972	0.213	1.000	
57.3	-33.0	2.709	0.293	-0.830	0.090	1.000	
-46.4	-50.2	4.631	0.500	0.168	-0.018	1.075	
-29.1	-50.2	5.167	0.558	-0.765	0.083	1.905	
-11.8	-50.2	5.330	0.576	-1.517	0.164	1.206	
5.4	-50.2	7.043	0.761	-2.888	0.312	1.051	
22.7	-50.2	4.636	0.501	-2.530	0.273	1.056	
40.0	-50.2	3.212	0.347	-2.067	0.223	1.000	
-46.4	-67.5	5.252	0.567	-0.696	0.075	1.034	
-29.1	-67.5	6.209	0.671	-1.565	0.169	1.060	
-11.8	-67.5	3.085	0.333	-1.067	0.115	1.578	

Im 100		Ld0w04		velocity			noise
location				x	y		
x	y	x	x	y	y		snr
mm	mm	pix/per	m/s	pix/per	m/s		
5.4	18.9	4.659	0.503	-4.027	0.435		1.000
22.7	18.9	4.441	0.480	-5.104	0.551		1.000
40.0	18.9	4.893	0.528	-7.034	0.760		1.421
57.3	18.9	3.554	0.384	-6.812	0.736		1.484
5.4	1.6	5.099	0.551	-2.767	0.299		1.035
22.7	1.6	3.572	0.386	-4.051	0.437		1.283
40.0	1.6	4.504	0.486	-6.067	0.655		1.393
57.3	1.6	3.544	0.383	-6.367	0.688		1.210
-46.4	-15.7	4.950	0.535	-1.090	0.118		1.155
-29.1	-15.7	4.270	0.461	-0.222	0.024		1.014
-11.8	-15.7	5.805	0.627	-0.920	0.099		1.441
5.4	-15.7	6.295	0.680	-2.294	0.248		1.093
22.7	-15.7	5.183	0.560	-3.063	0.331		1.414
40.0	-15.7	4.288	0.463	-4.729	0.511		1.000
57.3	-15.7	1.847	0.199	-2.982	0.322		1.000
-46.4	-33.0	4.284	0.463	-0.820	0.089		1.255
-29.1	-33.0	4.963	0.536	0.433	-0.047		1.053
-11.8	-33.0	5.080	0.549	-1.538	0.166		1.049
5.4	-33.0	4.990	0.539	-1.786	0.193		1.096
22.7	-33.0	4.137	0.447	-2.864	0.309		1.459
40.0	-33.0	5.943	0.642	-6.089	0.658		1.050
57.3	-33.0	3.953	0.427	-4.575	0.494		1.155
-46.4	-50.2	4.010	0.433	-0.932	0.101		1.952
-29.1	-50.2	4.342	0.469	-1.256	0.136		1.638
-11.8	-50.2	4.055	0.438	-1.445	0.156		1.049
5.4	-50.2	3.106	0.335	-1.665	0.180		1.263
22.7	-50.2	2.236	0.241	-1.188	0.128		1.000
40.0	-50.2	4.058	0.438	-3.469	0.375		1.000
57.3	-50.2	4.122	0.445	-4.162	0.449		1.057
-46.4	-67.5	3.411	0.368	-0.952	0.103		1.062
-29.1	-67.5	2.287	0.247	-0.817	0.088		1.226
-11.8	-67.5	3.417	0.369	-1.245	0.134		1.058
5.4	-67.5	3.189	0.344	-1.477	0.160		1.015
22.7	-67.5	3.029	0.327	-1.760	0.190		1.000
40.0	-67.5	3.545	0.383	-2.788	0.301		1.000
57.3	-67.5	3.835	0.414	-3.443	0.372		1.000

Im 101		Ld0w05		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
5.4	18.9	4.116	0.445	-3.416	0.369	1.000	
22.7	18.9	3.540	0.382	-4.075	0.440	1.227	
40.0	18.9	2.580	0.279	-4.846	0.523	1.000	
57.3	18.9	2.303	0.249	-5.928	0.640	1.000	
5.4	1.6	4.792	0.518	-2.604	0.281	1.030	
22.7	1.6	4.101	0.443	-3.796	0.410	1.056	
40.0	1.6	2.710	0.293	-4.424	0.478	1.357	
57.3	1.6	0.975	0.105	-4.554	0.492	1.000	
-46.4	-15.7	4.305	0.465	-0.861	0.093	1.000	
-29.1	-15.7	4.194	0.453	0.088	-0.010	1.442	
-11.8	-15.7	5.822	0.629	-0.348	0.038	1.003	
5.4	-15.7	4.957	0.535	-1.885	0.204	1.169	
22.7	-15.7	5.127	0.554	-4.060	0.438	1.573	
40.0	-15.7	3.939	0.425	-4.301	0.464	1.570	
57.3	-15.7	1.856	0.200	-3.268	0.353	1.000	
-46.4	-33.0	4.250	0.459	-1.639	0.177	1.042	
-29.1	-33.0	3.995	0.431	-1.314	0.142	1.262	
-11.8	-33.0	4.537	0.490	-1.007	0.109	1.000	
5.4	-33.0	4.276	0.462	-1.698	0.183	1.323	
22.7	-33.0	4.573	0.494	-1.733	0.187	1.161	
40.0	-33.0	2.429	0.262	-2.503	0.270	1.188	
57.3	-33.0	2.168	0.234	-2.816	0.304	1.000	
-46.4	-50.2	5.027	0.543	-1.175	0.127	1.004	
-29.1	-50.2	3.774	0.408	-1.325	0.143	1.242	
-11.8	-50.2	3.497	0.378	-1.304	0.141	1.022	
5.4	-50.2	2.882	0.311	-1.329	0.144	1.413	
22.7	-50.2	2.685	0.290	-0.811	0.088	1.000	
40.0	-50.2	0.886	0.096	-0.471	0.051	1.000	
-46.4	-67.5	3.949	0.426	-1.079	0.116	1.015	
-29.1	-67.5	2.991	0.323	-0.792	0.086	1.629	
-11.8	-67.5	3.326	0.359	-1.127	0.122	1.211	
5.4	-67.5	3.062	0.331	-1.208	0.130	1.215	

Im 102		Ld0w06		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
40.0	36.2	3.273	0.353	-6.812	0.736		1.012
57.3	36.2	2.954	0.319	-6.276	0.678		1.282
40.0	18.9	3.266	0.353	-7.696	0.831		1.101
57.3	18.9	2.830	0.306	-5.963	0.644		1.017
22.7	1.6	6.577	0.710	-5.056	0.546		1.558
40.0	1.6	3.651	0.394	-5.375	0.581		1.608
57.3	1.6	1.733	0.187	-4.797	0.518		1.000
-46.4	-15.7	4.581	0.495	0.121	-0.013		1.051
-29.1	-15.7	5.329	0.576	-0.246	0.027		1.378
-11.8	-15.7	5.820	0.629	-0.612	0.066		1.189
5.4	-15.7	5.452	0.589	-2.918	0.315		1.718
22.7	-15.7	4.661	0.503	-3.711	0.401		1.011
40.0	-15.7	3.158	0.341	-3.855	0.416		1.465
57.3	-15.7	2.733	0.295	-4.244	0.458		1.000
-29.1	-33.0	8.957	0.967	-2.109	0.228		1.183
-11.8	-33.0	6.191	0.669	-1.860	0.201		1.478
5.4	-33.0	4.300	0.464	-2.526	0.273		1.587
22.7	-33.0	3.897	0.421	-2.291	0.247		1.503
40.0	-33.0	2.532	0.273	-2.907	0.314		1.000
57.3	-33.0	2.735	0.295	-3.617	0.391		1.000
-29.1	-50.2	8.528	0.921	-2.319	0.250		1.129
-11.8	-50.2	6.010	0.649	-1.731	0.187		1.018
5.4	-50.2	4.086	0.441	-1.710	0.185		1.297
22.7	-50.2	3.855	0.416	-2.285	0.247		1.169
-29.1	-67.5	7.537	0.814	-2.045	0.221		1.011

Im 103		Ld0w07		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
5.4	18.9	4.907	0.530	-3.729	0.403		1.000
22.7	18.9	4.403	0.475	-4.861	0.525		1.138
40.0	18.9	3.671	0.396	-4.873	0.526		1.271
57.3	18.9	2.680	0.289	-3.805	0.411		1.176
5.4	1.6	5.149	0.556	-3.264	0.352		1.969
22.7	1.6	4.468	0.483	-5.471	0.591		1.118
40.0	1.6	4.026	0.435	-5.733	0.619		1.442
57.3	1.6	2.019	0.218	-3.005	0.325		1.000
-63.7	-15.7	4.628	0.500	1.222	-0.132		1.052
-46.4	-15.7	4.594	0.496	-0.568	0.061		1.085
-29.1	-15.7	4.660	0.503	-1.924	0.208		1.151
-11.8	-15.7	7.803	0.843	0.401	-0.043		1.088
5.4	-15.7	5.138	0.555	-2.616	0.283		1.324
22.7	-15.7	4.212	0.455	-3.857	0.417		1.000
40.0	-15.7	2.884	0.311	-3.628	0.392		1.000
57.3	-15.7	1.975	0.213	-2.572	0.278		1.000
-63.7	-33.0	4.156	0.449	-0.157	0.017		1.000
-46.4	-33.0	4.424	0.478	-0.988	0.107		1.169
-29.1	-33.0	4.530	0.489	-1.161	0.125		1.306
-11.8	-33.0	5.510	0.595	-1.134	0.123		1.014
5.4	-33.0	4.731	0.511	-1.651	0.178		1.250
22.7	-33.0	4.108	0.444	-2.463	0.266		1.000
40.0	-33.0	2.338	0.252	-2.047	0.221		1.000
-63.7	-50.2	3.397	0.367	-0.456	0.049		1.000
-46.4	-50.2	3.764	0.406	-0.312	0.034		1.650
-29.1	-50.2	4.171	0.450	-0.796	0.086		1.086
-11.8	-50.2	5.332	0.576	-1.838	0.198		1.305
5.4	-50.2	6.928	0.748	-3.960	0.428		1.068
22.7	-50.2	4.883	0.527	-2.845	0.307		1.247
-63.7	-67.5	2.722	0.294	-0.561	0.061		1.030
-46.4	-67.5	2.690	0.291	-0.534	0.058		1.320
-29.1	-67.5	3.805	0.411	-0.806	0.087		1.228
-11.8	-67.5	5.265	0.569	-1.931	0.209		1.168

Im 104		Ld0w08		velocity			noise	
location				x	x	y	y	
x	y	x	x					snr
mm	mm	pix/per	m/s	pix/per	m/s			
5.4	18.9	5.394	0.583	-4.103	0.443			1.000
22.7	18.9	4.596	0.496	-5.180	0.559			1.773
40.0	18.9	3.518	0.380	-7.038	0.760			1.332
57.3	18.9	4.675	0.505	-10.929	1.180			1.067
5.4	1.6	6.433	0.695	-2.766	0.299			1.574
22.7	1.6	4.965	0.536	-4.502	0.486			1.103
40.0	1.6	4.277	0.462	-5.573	0.602			1.096
57.3	1.6	4.273	0.462	-7.285	0.787			1.010
-46.4	-15.7	4.621	0.499	-0.009	0.001			1.811
-29.1	-15.7	4.623	0.499	-0.876	0.095			1.407
-11.8	-15.7	10.904	1.178	-1.095	0.118			1.222
5.4	-15.7	6.870	0.742	-1.807	0.195			1.070
22.7	-15.7	4.931	0.533	-2.982	0.322			1.000
40.0	-15.7	3.888	0.420	-3.971	0.429			1.586
57.3	-15.7	4.185	0.452	-5.752	0.621			1.232
-46.4	-33.0	4.942	0.534	-0.632	0.068			1.031
-29.1	-33.0	5.789	0.625	-0.841	0.091			1.000
-11.8	-33.0	6.232	0.673	-1.142	0.123			1.010
5.4	-33.0	4.461	0.482	-1.725	0.186			1.097
22.7	-33.0	4.206	0.454	-2.197	0.237			1.000
-46.4	-50.2	4.111	0.444	-0.734	0.079			1.217
-29.1	-50.2	5.962	0.644	-1.106	0.119			1.287
-11.8	-50.2	4.150	0.448	-0.738	0.080			1.106
5.4	-50.2	3.075	0.332	-1.120	0.121			1.702

Im 105		Ld0w09		velocity			noise
location				x	y	y	
x	y	x	x	y	y		snr
mm	mm	pix/per	m/s	pix/per	m/s		
5.4	36.2	2.707	0.292	-5.383	0.581		1.000
22.7	36.2	3.358	0.363	-5.956	0.643		1.000
40.0	36.2	3.791	0.409	-7.370	0.796		1.172
5.4	18.9	1.339	0.145	-5.449	0.588		1.000
22.7	18.9	3.841	0.415	-5.482	0.592		1.773
40.0	18.9	3.518	0.380	-7.038	0.760		1.332
57.3	18.9	4.675	0.505	-10.929	1.180		1.067
5.4	1.6	7.242	0.782	-4.096	0.442		1.574
22.7	1.6	4.965	0.536	-4.502	0.486		1.103
40.0	1.6	4.334	0.468	-5.628	0.608		1.096
57.3	1.6	4.292	0.464	-7.303	0.789		1.010
-63.7	-15.7	3.967	0.428	0.152	-0.016		1.576
-46.4	-15.7	4.621	0.499	-0.009	0.001		1.811
-29.1	-15.7	4.623	0.499	-0.876	0.095		1.407
-11.8	-15.7	10.904	1.178	-1.095	0.118		1.222
5.4	-15.7	7.099	0.767	-2.422	0.262		1.070
22.7	-15.7	5.438	0.587	-3.469	0.375		1.000
40.0	-15.7	3.888	0.420	-3.971	0.429		1.586
57.3	-15.7	4.226	0.456	-5.792	0.625		1.232
-63.7	-33.0	5.134	0.554	-0.084	0.009		1.724
-46.4	-33.0	4.548	0.491	-0.295	0.032		1.031
-29.1	-33.0	5.789	0.625	-0.841	0.091		1.000
-11.8	-33.0	6.232	0.673	-1.142	0.123		1.010
5.4	-33.0	4.461	0.482	-1.725	0.186		1.097
22.7	-33.0	5.108	0.552	-2.856	0.308		1.000
40.0	-33.0	4.640	0.501	-3.449	0.372		1.041
-63.7	-50.2	4.645	0.502	-0.397	0.043		1.002
-46.4	-50.2	4.111	0.444	-0.734	0.079		1.217
-29.1	-50.2	5.962	0.644	-1.106	0.119		1.287
-11.8	-50.2	4.150	0.448	-0.738	0.080		1.106
-63.7	-67.5	4.608	0.498	-0.487	0.053		1.027

**VERTICAL VELOCITY PROFILES**

Velocity Data for Images 97 to 106

x	y	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	mean
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105		
-29.1	-15.7	0.597	0.561	0.862	0.461	0.453	0.576	0.503	0.499	0.499		0.557
-29.1	-33.0	0.497	0.506	0.653	0.536	0.431	0.967	0.489	0.625	0.625		0.592
-29.1	-50.2	0.536	0.463	0.558	0.469	0.408	0.921	0.450	0.644	0.644		0.566
-29.1	-67.5	0.499	0.267	0.671	0.247	0.323	0.814	0.411	0.000	0.000		0.359

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-11.8	-15.7	1.299	0.622	0.695	0.627	0.629	0.629	0.843	1.178	1.178	0.855
-11.8	-33.0	0.657	0.559	0.675	0.549	0.490	0.669	0.595	0.673	0.673	0.615
-11.8	-50.2	0.568	0.410	0.576	0.438	0.378	0.649	0.576	0.448	0.448	0.499
-11.8	-67.5	0.522	0.309	0.333	0.369	0.359	0.000	0.569	0.000	0.000	0.274

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
5.4	18.9	0.000	0.569	0.000	0.503	0.445	0.000	0.530	0.583	0.145	0.308
5.4	1.6	0.742	0.594	0.545	0.551	0.518	0.000	0.556	0.695	0.782	0.554
5.4	-15.7	0.857	0.621	0.583	0.680	0.535	0.589	0.555	0.742	0.767	0.659
5.4	-33.0	0.601	0.563	0.629	0.539	0.462	0.464	0.511	0.482	0.482	0.526
5.4	-50.2	0.397	0.414	0.761	0.335	0.311	0.441	0.748	0.332	0.000	0.416
5.4	-67.5	0.455	0.368	0.000	0.344	0.331	0.000	0.000	0.000	0.000	0.166

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
22.7	18.9	0.000	0.508	0.000	0.480	0.382	0.000	0.475	0.496	0.415	0.306
22.7	1.6	0.489	0.517	0.384	0.386	0.443	0.710	0.483	0.536	0.536	0.498
22.7	-15.7	0.548	0.552	0.652	0.560	0.554	0.503	0.455	0.533	0.587	0.549
22.7	-33.0	0.393	0.448	0.485	0.447	0.494	0.421	0.444	0.454	0.552	0.460
22.7	-50.2	0.271	0.298	0.501	0.241	0.290	0.416	0.527	0.000	0.000	0.283
22.7	-67.5	0.000	0.000	0.000	0.327	0.000	0.000	0.000	0.000	0.000	0.036

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
40.0	18.9	0.000	0.430	0.000	0.528	0.279	0.353	0.396	0.380	0.380	0.305
40.0	1.6	0.358	0.416	0.250	0.486	0.293	0.394	0.435	0.462	0.468	0.396
40.0	-15.7	0.312	0.395	0.405	0.463	0.425	0.341	0.311	0.420	0.420	0.388
40.0	-33.0	0.228	0.304	0.246	0.642	0.262	0.273	0.252	0.000	0.501	0.301
40.0	-50.2	0.112	0.284	0.347	0.438	0.096	0.000	0.000	0.000	0.000	0.142
40.0	-67.5	0.000	0.000	0.000	0.383	0.000	0.000	0.000	0.000	0.000	0.043

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
57.3	18.9	0.000	0.378	0.000	0.384	0.249	0.306	0.289	0.505	0.505	0.291
57.3	1.6	0.318	0.354	0.315	0.383	0.105	0.187	0.218	0.462	0.464	0.312
57.3	-15.7	0.407	0.325	0.333	0.199	0.200	0.295	0.213	0.452	0.456	0.320
57.3	-33.0	0.197	0.324	0.293	0.427	0.234	0.295	0.000	0.000	0.000	0.197
57.3	-67.5	0.000	0.000	0.000	0.414	0.000	0.000	0.000	0.000	0.000	0.046

Velocity Data for Images 97 to 106

Vertical Velocities m/s

x	y	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	mean
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	
-29.1	-15.7	0.027	0.078	0.329	0.024	-0.010	0.027	0.208	0.095	0.095	0.097
-29.1	-33.0	0.012	0.030	0.117	-0.047	0.142	0.228	0.125	0.091	0.091	0.088
-29.1	-50.2	0.094	0.068	0.083	0.136	0.143	0.250	0.086	0.119	0.119	0.122
-29.1	-67.5	0.091	0.110	0.169	0.088	0.086	0.221	0.087	0.000	0.000	0.095

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-11.8	-15.7	0.090	0.095	0.252	0.099	0.038	0.066	-0.043	0.118	0.118	0.093
-11.8	-33.0	0.233	0.116	0.183	0.166	0.109	0.201	0.123	0.123	0.123	0.153
-11.8	-50.2	0.153	0.084	0.164	0.156	0.141	0.187	0.198	0.080	0.080	0.138
-11.8	-67.5	0.136	0.058	0.115	0.134	0.122	0.000	0.209	0.000	0.000	0.086

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
5.4	18.9	0.000	0.223	0.000	0.435	0.369	0.000	0.403	0.443	0.588	0.274
5.4	1.6	0.178	0.204	0.288	0.299	0.281	0.000	0.352	0.299	0.442	0.260
5.4	-15.7	0.140	0.186	0.316	0.248	0.204	0.315	0.283	0.195	0.262	0.239
5.4	-33.0	0.164	0.213	0.285	0.193	0.183	0.273	0.178	0.186	0.186	0.207
5.4	-50.2	0.140	0.142	0.312	0.180	0.144	0.185	0.428	0.121	0.000	0.183
5.4	-67.5	0.148	0.107	0.000	0.160	0.130	0.000	0.000	0.000	0.000	0.060

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
22.7	18.9	0.000	0.280	0.000	0.551	0.440	0.000	0.525	0.559	0.592	0.328
22.7	1.6	0.256	0.288	0.249	0.437	0.410	0.546	0.591	0.486	0.486	0.417
22.7	-15.7	0.181	0.334	0.350	0.331	0.438	0.401	0.417	0.322	0.375	0.350
22.7	-33.0	0.190	0.227	0.301	0.309	0.187	0.247	0.266	0.237	0.308	0.253
22.7	-50.2	0.182	0.127	0.273	0.128	0.088	0.247	0.307	0.000	0.000	0.150
22.7	-67.5	0.000	0.000	0.000	0.190	0.000	0.000	0.000	0.000	0.000	0.021

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
40.0	18.9	0.000	0.304	0.000	0.760	0.523	0.831	0.526	0.760	0.760	0.496
40.0	1.6	0.359	0.312	0.472	0.655	0.478	0.581	0.619	0.602	0.608	0.521
40.0	-15.7	0.325	0.279	0.392	0.511	0.464	0.416	0.392	0.429	0.429	0.404
40.0	-33.0	0.269	0.250	0.213	0.658	0.270	0.314	0.221	0.000	0.372	0.285
40.0	-50.2	0.304	0.244	0.223	0.375	0.051	0.000	0.000	0.000	0.000	0.133
40.0	-67.5	0.000	0.000	0.000	0.301	0.000	0.000	0.000	0.000	0.000	0.033

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
57.3	18.9	0.000	0.327	0.000	0.736	0.640	0.644	0.411	1.180	1.180	0.569
57.3	1.6	0.452	0.330	0.356	0.688	0.492	0.518	0.325	0.787	0.789	0.526
57.3	-15.7	0.432	0.407	0.275	0.322	0.353	0.458	0.278	0.621	0.625	0.419
57.3	-33.0	0.215	0.309	0.090	0.494	0.304	0.391	0.000	0.000	0.000	0.200
57.3	-67.5	0.000	0.000	0.000	0.372	0.000	0.000	0.000	0.000	0.000	0.041

### HORIZONTAL VELOCITY PROFILES

Velocity Data for Images 97 to 106

x	y	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	mean
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
5.4	1.6	0.178	0.204	0.288	0.299	0.281	0.000	0.352	0.299	0.442	0.260
22.7	1.6	0.256	0.288	0.249	0.437	0.410	0.546	0.591	0.486	0.486	0.417
40.0	1.6	0.359	0.312	0.472	0.655	0.478	0.581	0.619	0.602	0.608	0.521
57.3	1.6	0.452	0.330	0.356	0.688	0.492	0.518	0.325	0.787	0.789	0.526

### FLOW THROUGH Y-PLANE

Vertical Velocities m/s

x	y	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	mean
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-15.7	0.000	0.000	0.000	0.000	0.000	0.000	-0.132	0.000	-0.016	-0.016
-46.4	-15.7	-0.008	0.000	0.001	0.118	0.093	-0.013	0.061	0.001	0.001	0.028
-29.1	-15.7	0.027	0.078	0.329	0.024	-0.010	0.027	0.208	0.095	0.095	0.097
-11.8	-15.7	0.090	0.095	0.252	0.099	0.038	0.066	-0.043	0.118	0.118	0.093
5.4	-15.7	0.140	0.186	0.316	0.248	0.204	0.315	0.283	0.195	0.262	0.239
22.7	-15.7	0.181	0.334	0.350	0.331	0.438	0.401	0.417	0.322	0.375	0.350
40.0	-15.7	0.325	0.279	0.392	0.511	0.464	0.416	0.392	0.429	0.429	0.404
57.3	-15.7	0.432	0.407	0.275	0.322	0.353	0.458	0.278	0.621	0.625	0.419

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-33.0	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.009	0.003
-46.4	-33.0	0.020	0.000	0.006	0.089	0.177	0.000	0.107	0.068	0.032	0.055
-29.1	-33.0	0.012	0.030	0.117	-0.047	0.142	0.228	0.125	0.091	0.091	0.088
-11.8	-33.0	0.233	0.116	0.183	0.166	0.109	0.201	0.123	0.123	0.123	0.153
5.4	-33.0	0.164	0.213	0.285	0.193	0.183	0.273	0.178	0.186	0.186	0.207
22.7	-33.0	0.190	0.227	0.301	0.309	0.187	0.247	0.266	0.237	0.308	0.253
40.0	-33.0	0.269	0.250	0.213	0.658	0.270	0.314	0.221	0.000	0.372	0.285
57.3	-33.0	0.215	0.309	0.090	0.494	0.304	0.391	0.000	0.000	0.000	0.200

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-50.2	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.000	0.043	0.010
-46.4	-50.2	0.040	0.000	-0.018	0.101	0.127	0.000	0.034	0.079	0.079	0.049
-29.1	-50.2	0.094	0.068	0.083	0.136	0.143	0.250	0.086	0.119	0.119	0.122
-11.8	-50.2	0.153	0.084	0.164	0.156	0.141	0.187	0.198	0.080	0.080	0.138
5.4	-50.2	0.140	0.142	0.312	0.180	0.144	0.185	0.428	0.121	0.000	0.183
22.7	-50.2	0.182	0.127	0.273	0.128	0.088	0.247	0.307	0.000	0.000	0.150
40.0	-50.2	0.304	0.244	0.223	0.375	0.051	0.000	0.000	0.000	0.000	0.133

**Velocity Data for Images 97 to 106**

**Horizontal Velocities**

location		velocity m/s										
x	y	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	Ld0w0	mean
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean	
5.4	1.6	0.742	0.594	0.545	0.551	0.518	0.000	0.556	0.695	0.782	0.554	
22.7	1.6	0.489	0.517	0.384	0.386	0.443	0.710	0.483	0.536	0.536	0.498	
40.0	1.6	0.358	0.416	0.250	0.486	0.293	0.394	0.435	0.462	0.468	0.396	
57.3	1.6	0.318	0.354	0.315	0.383	0.105	0.187	0.218	0.462	0.464	0.312	

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-15.7	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.428	0.103
-46.4	-15.7	0.550	0.000	0.528	0.535	0.465	0.495	0.496	0.499	0.499	0.452
-29.1	-15.7	0.597	0.561	0.862	0.461	0.453	0.576	0.503	0.499	0.499	0.557
-11.8	-15.7	1.299	0.622	0.695	0.627	0.629	0.629	0.843	1.178	1.178	0.855
5.4	-15.7	0.857	0.621	0.583	0.680	0.535	0.589	0.555	0.742	0.767	0.659
22.7	-15.7	0.548	0.552	0.652	0.560	0.554	0.503	0.455	0.533	0.587	0.549
40.0	-15.7	0.312	0.395	0.405	0.463	0.425	0.341	0.311	0.420	0.420	0.388
57.3	-15.7	0.407	0.325	0.333	0.199	0.200	0.295	0.213	0.452	0.456	0.320

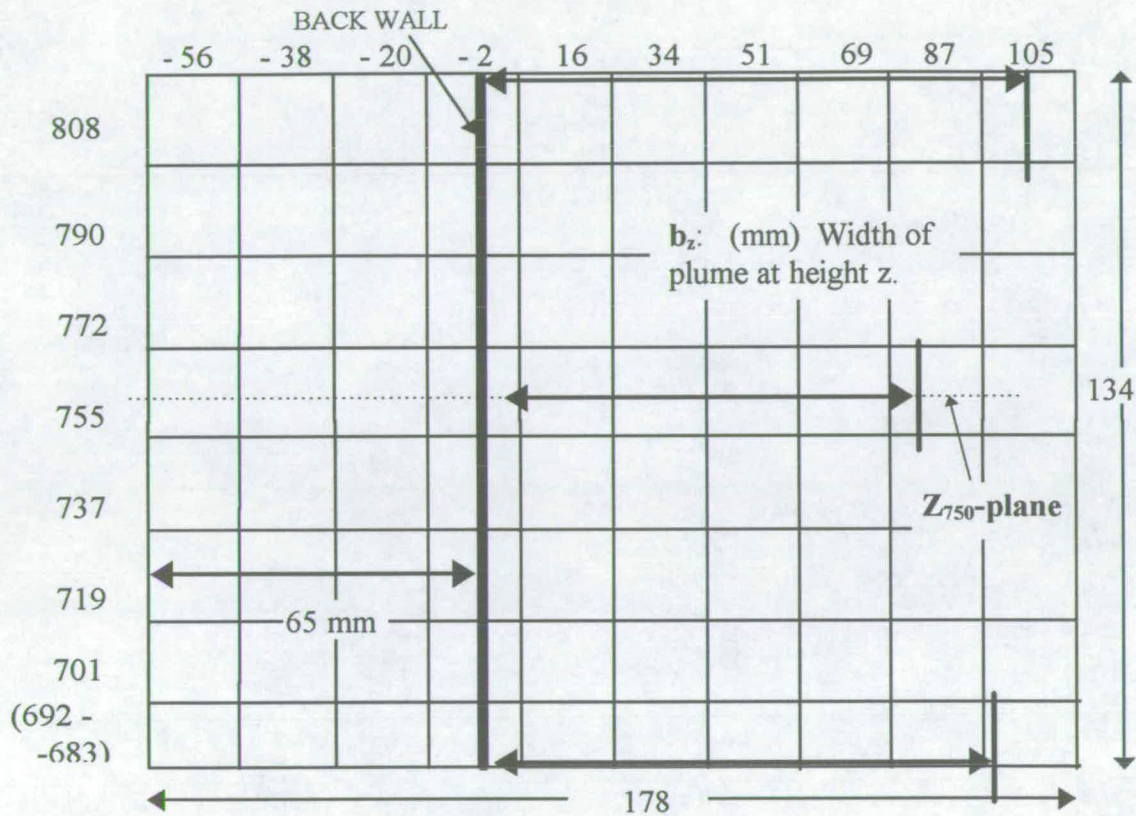
mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-33.0	0.000	0.000	0.000	0.000	0.000	0.000	0.449	0.000	0.554	0.111
-46.4	-33.0	0.531	0.000	0.564	0.463	0.459	0.000	0.478	0.534	0.491	0.391
-29.1	-33.0	0.497	0.506	0.653	0.536	0.431	0.967	0.489	0.625	0.625	0.592
-11.8	-33.0	0.657	0.559	0.675	0.549	0.490	0.669	0.595	0.673	0.673	0.615
5.4	-33.0	0.601	0.563	0.629	0.539	0.462	0.464	0.511	0.482	0.482	0.526
22.7	-33.0	0.393	0.448	0.485	0.447	0.494	0.421	0.444	0.454	0.552	0.460
40.0	-33.0	0.228	0.304	0.246	0.642	0.262	0.273	0.252	0.000	0.501	0.301
57.3	-33.0	0.197	0.324	0.293	0.427	0.234	0.295	0.000	0.000	0.000	0.197

mm	mm	lm 97	lm 98	lm 99	lm 100	lm 101	lm 102	lm 103	lm 104	lm 105	mean
-63.7	-50.2	0.000	0.000	0.000	0.000	0.000	0.000	0.367	0.000	0.502	0.096
-46.4	-50.2	0.495	0.000	0.500	0.433	0.543	0.000	0.406	0.444	0.444	0.363
-29.1	-50.2	0.536	0.463	0.558	0.469	0.408	0.921	0.450	0.644	0.644	0.566
-11.8	-50.2	0.568	0.410	0.576	0.438	0.378	0.649	0.576	0.448	0.448	0.499
5.4	-50.2	0.397	0.414	0.761	0.335	0.311	0.441	0.748	0.332	0.000	0.416
22.7	-50.2	0.271	0.298	0.501	0.241	0.290	0.416	0.527	0.000	0.000	0.283
40.0	-50.2	0.112	0.284	0.347	0.438	0.096	0.000	0.000	0.000	0.000	0.142

# IMAGES 113 TO 120:

## FLOW FROM FIRE COMPARTMENT (Z-PLANE)

2460 mm long compartment; no downstand;  
no balcony; 4.61 kw heat source



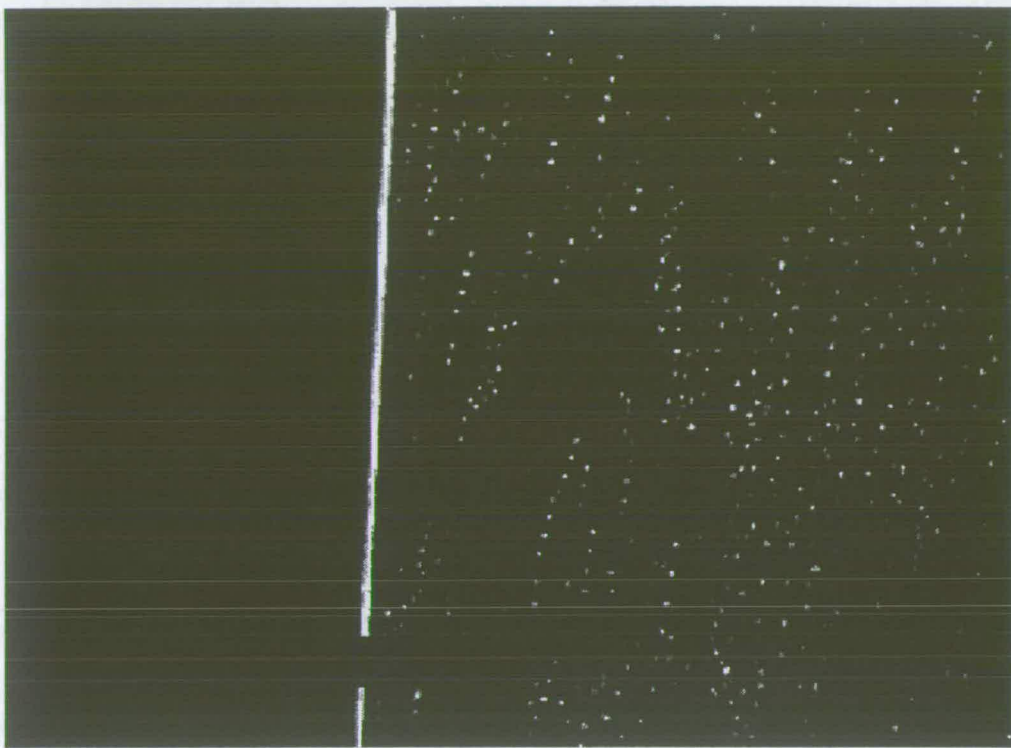
### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 113 - 120

Interrogation areas 17.6 mm x 17.6 mm.

SCALE: 1 PIXEL = 0.588 MM

Image 120 not used.

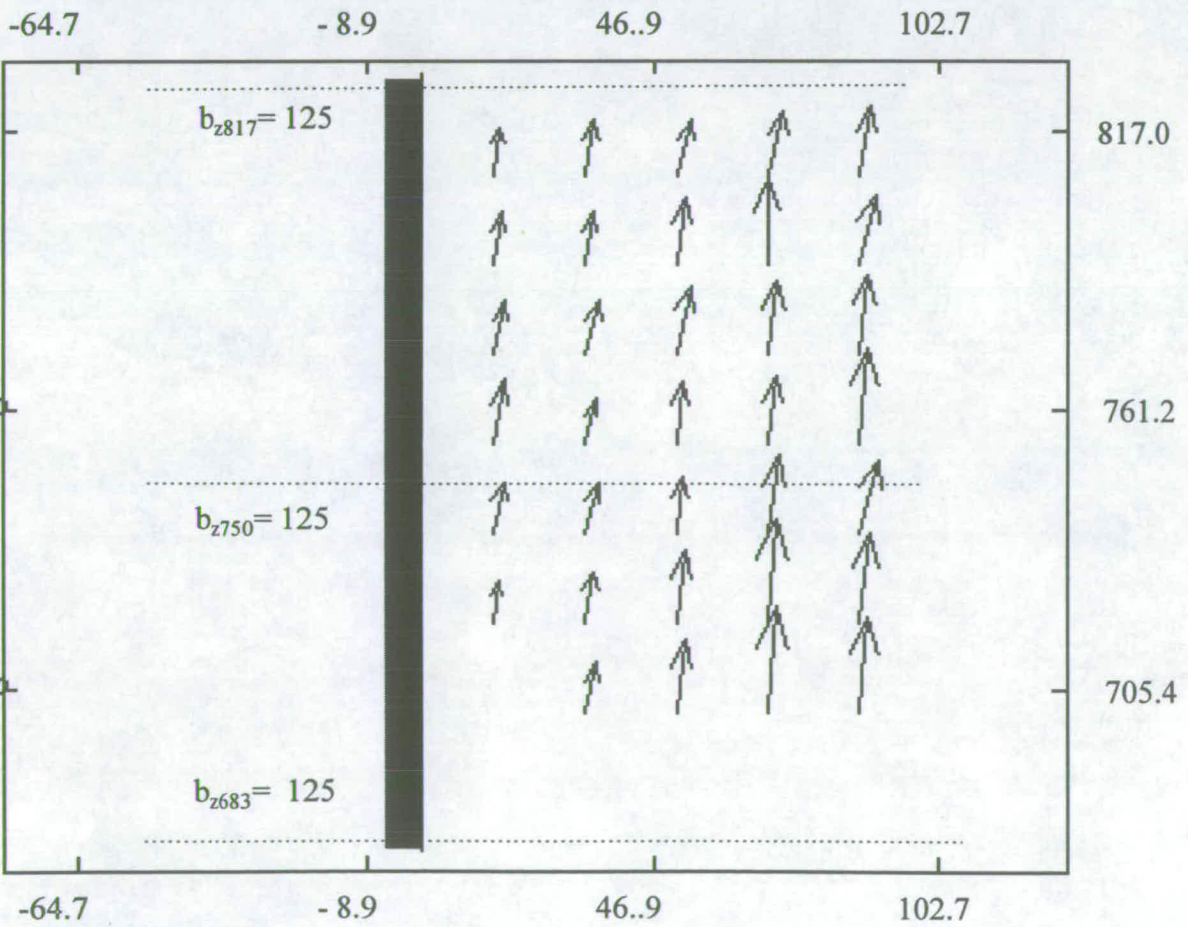
File references: Ld0h01, Ld0h02, Ld0h03, Ld0h04, Ld0h06, Ld0h07, Ld0h08



134 MM

179 MM

ORIGINAL IMAGE



-64.7

-8.9

46.9

102.7

817.0

761.2

705.4

$b_{z817} = 125$

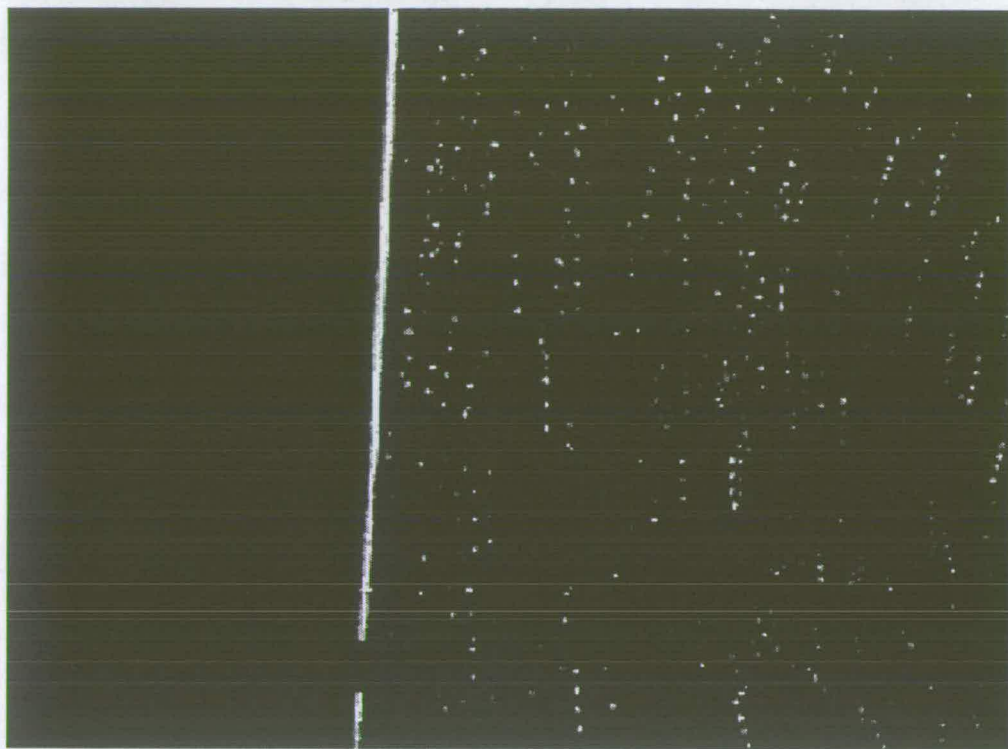
$b_{z750} = 125$

$b_{z683} = 125$

VECTOR MAP

IMAGE NO. 113

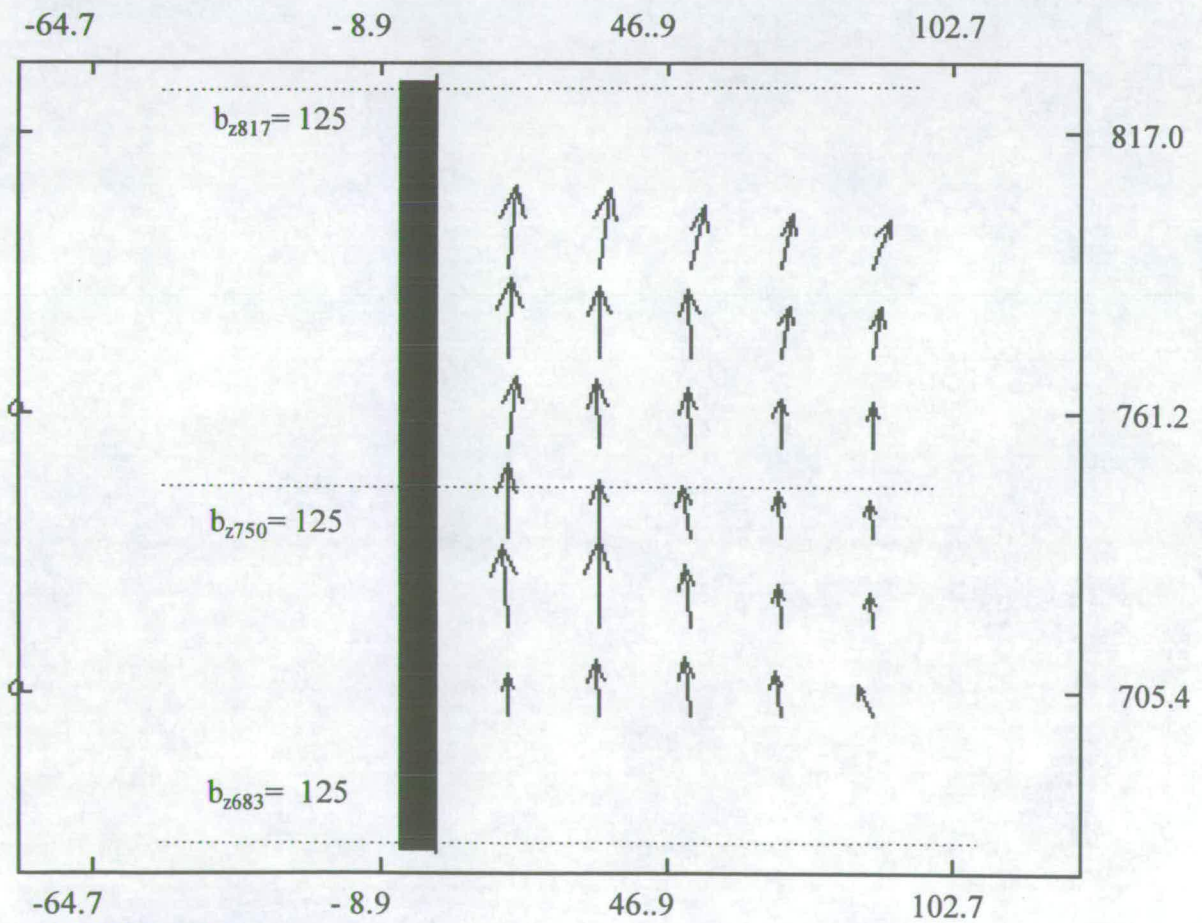
(REF.: LD0H01)



134 MM

179 MM

ORIGINAL IMAGE



817.0

761.2

705.4

-64.7

-8.9

46.9

102.7

$b_{z817} = 125$

$b_{z750} = 125$

$b_{z683} = 125$

-64.7

-8.9

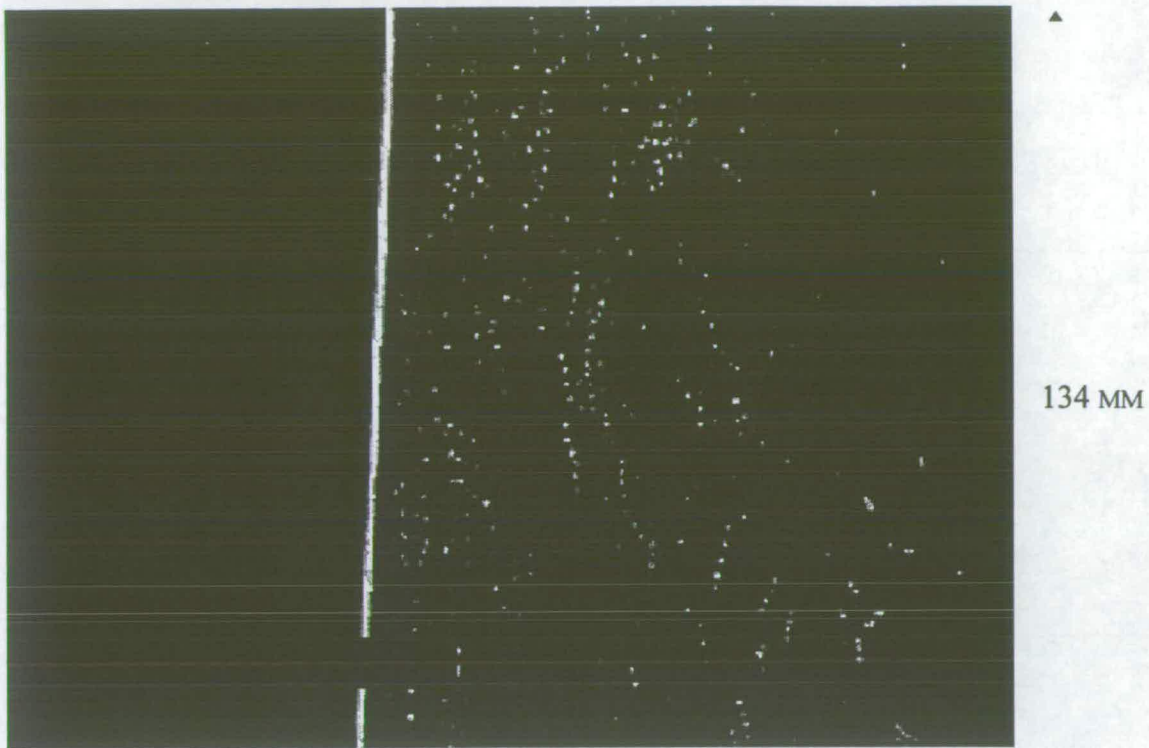
46.9

102.7

VECTOR MAP

IMAGE NO. 114

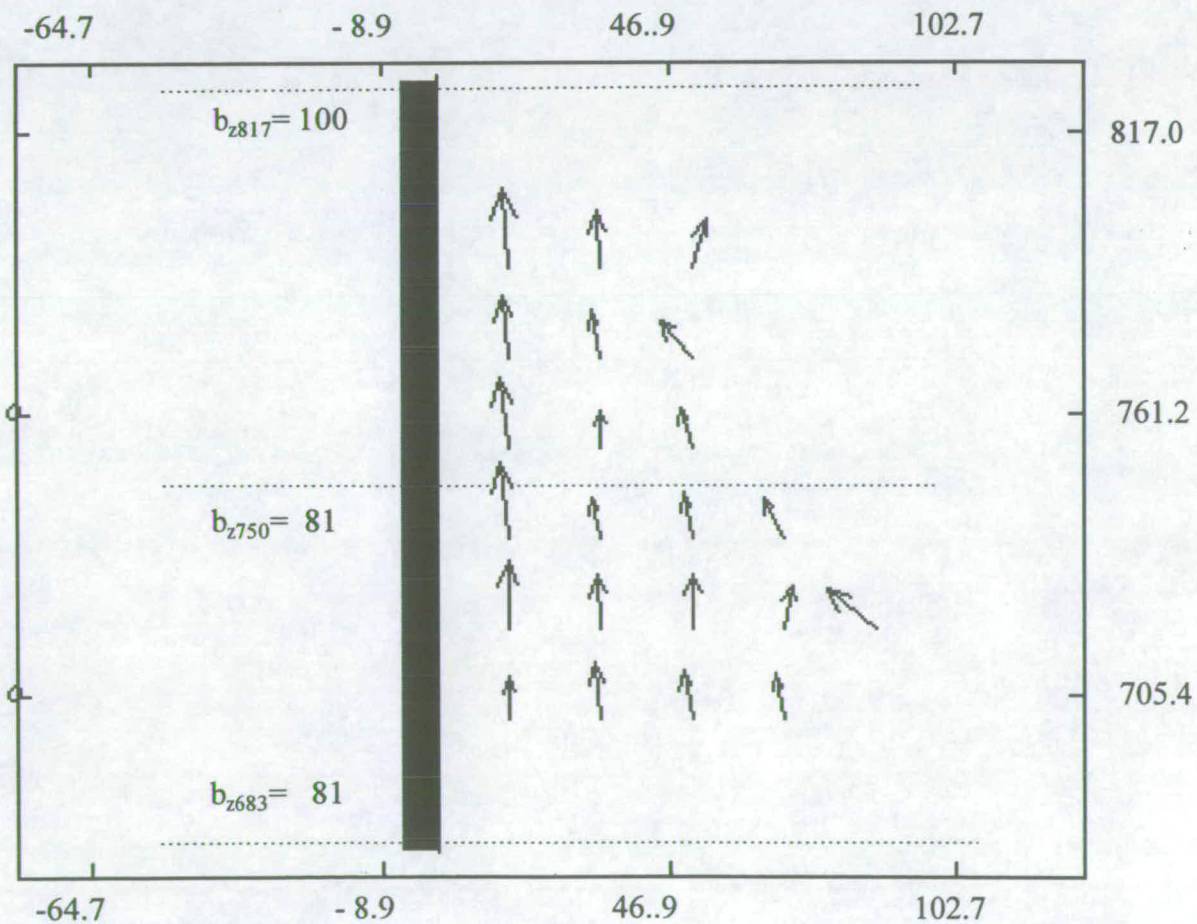
(REF.: LD0H02)



179 MM

134 MM

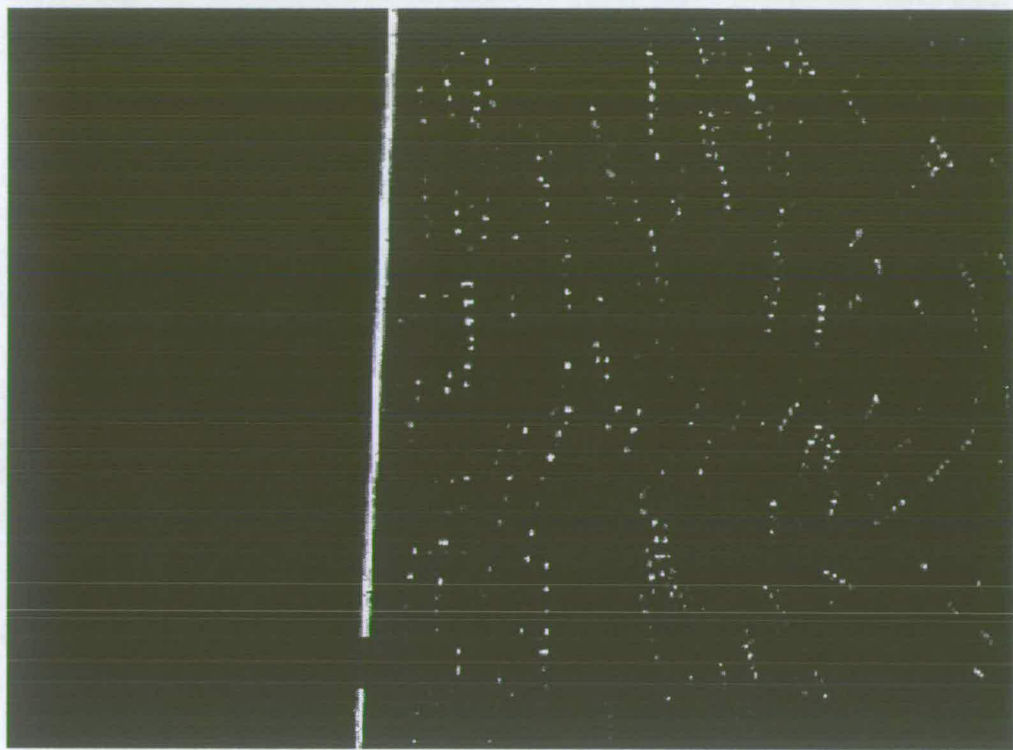
ORIGINAL IMAGE



VECTOR MAP

IMAGE No. 115

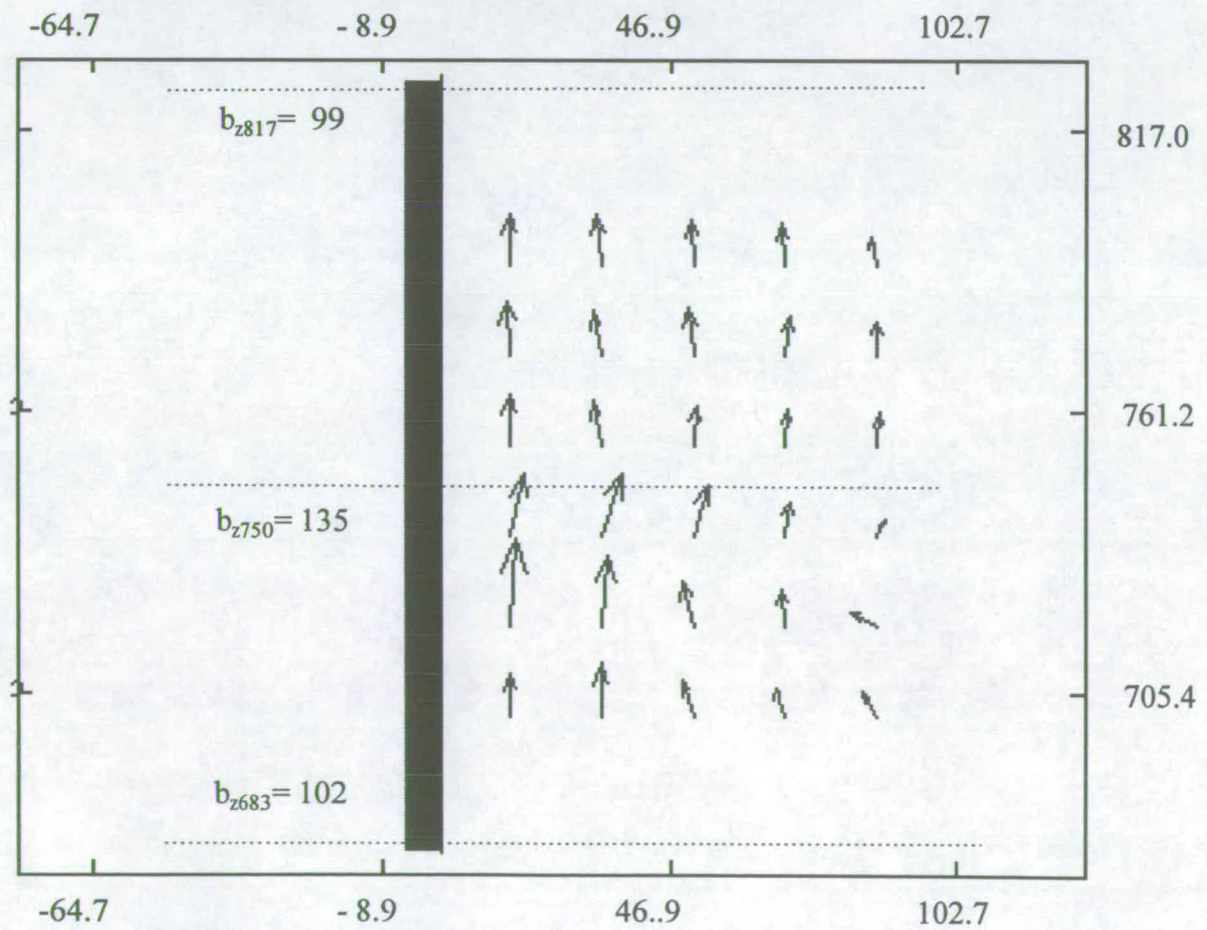
(REF.: LD0H03)



134 MM

179 MM

ORIGINAL IMAGE



-64.7

- 8.9

46.9

102.7

817.0

761.2

705.4

$b_{z817} = 99$

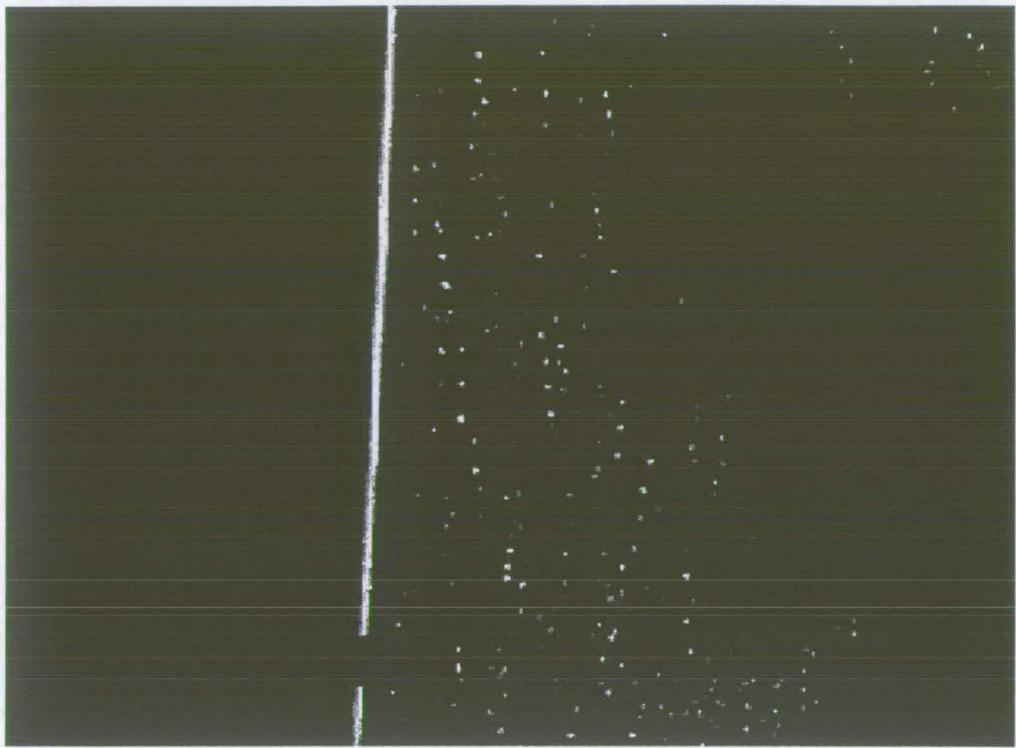
$b_{z750} = 135$

$b_{z683} = 102$

VECTOR MAP

IMAGE NO. 116

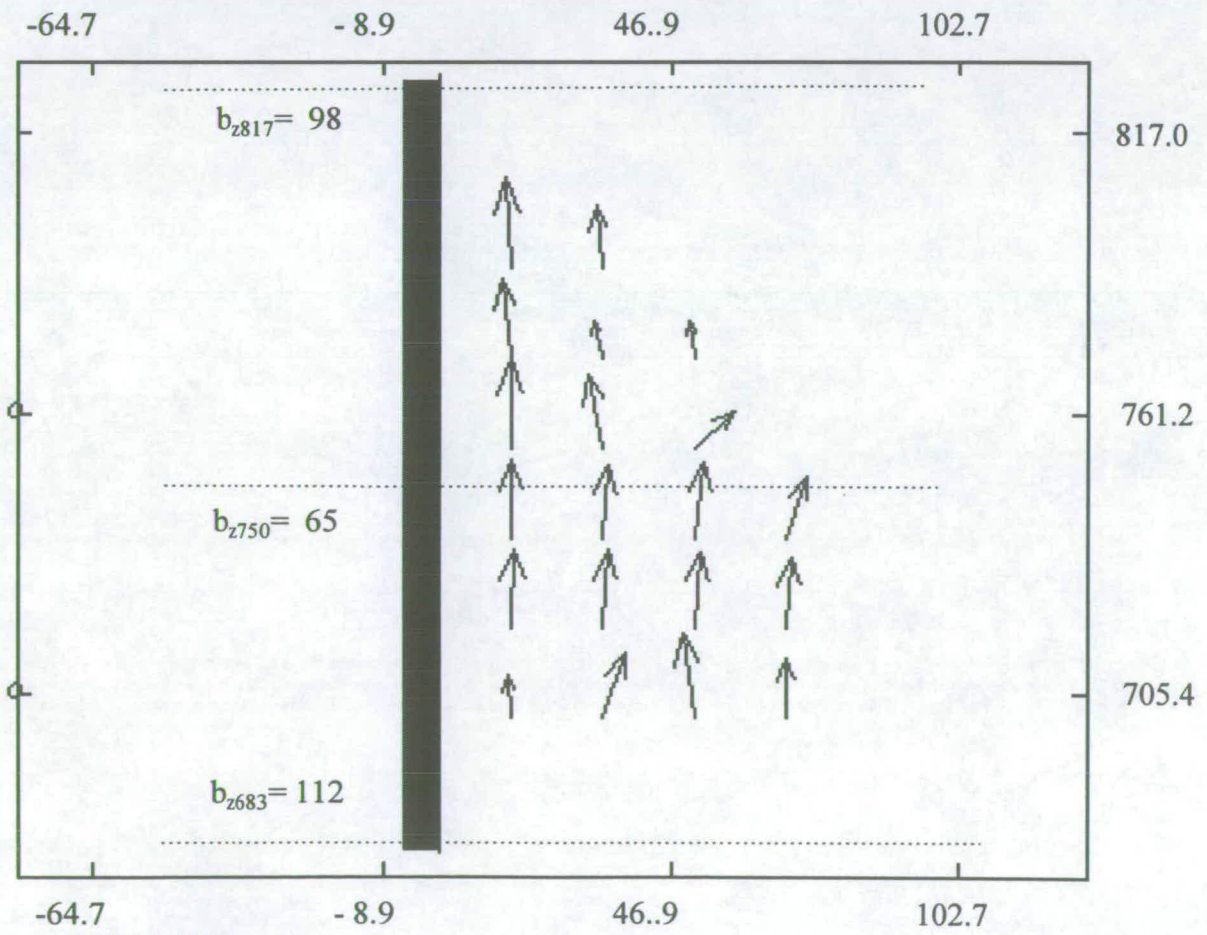
(REF.: LD0H04)



134 MM

179 MM

ORIGINAL IMAGE



-64.7

-8.9

46.9

102.7

817.0

761.2

705.4

$b_{z817} = 98$

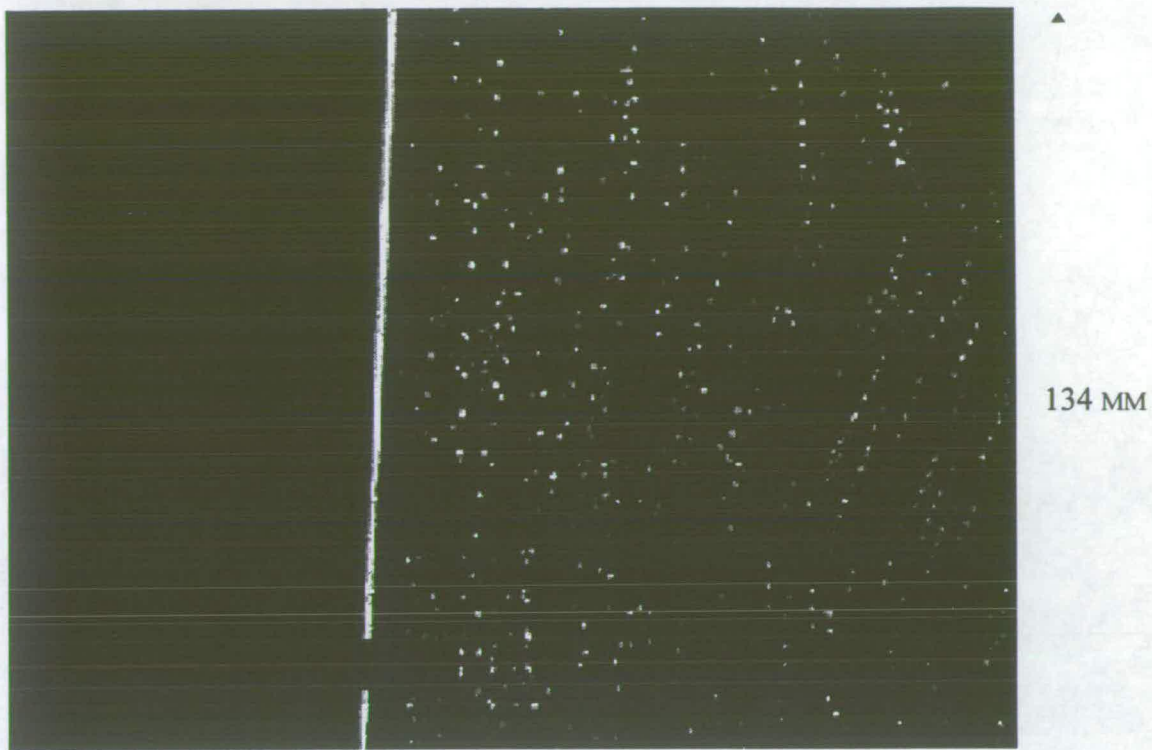
$b_{z750} = 65$

$b_{z683} = 112$

VECTOR MAP

IMAGE NO. 117

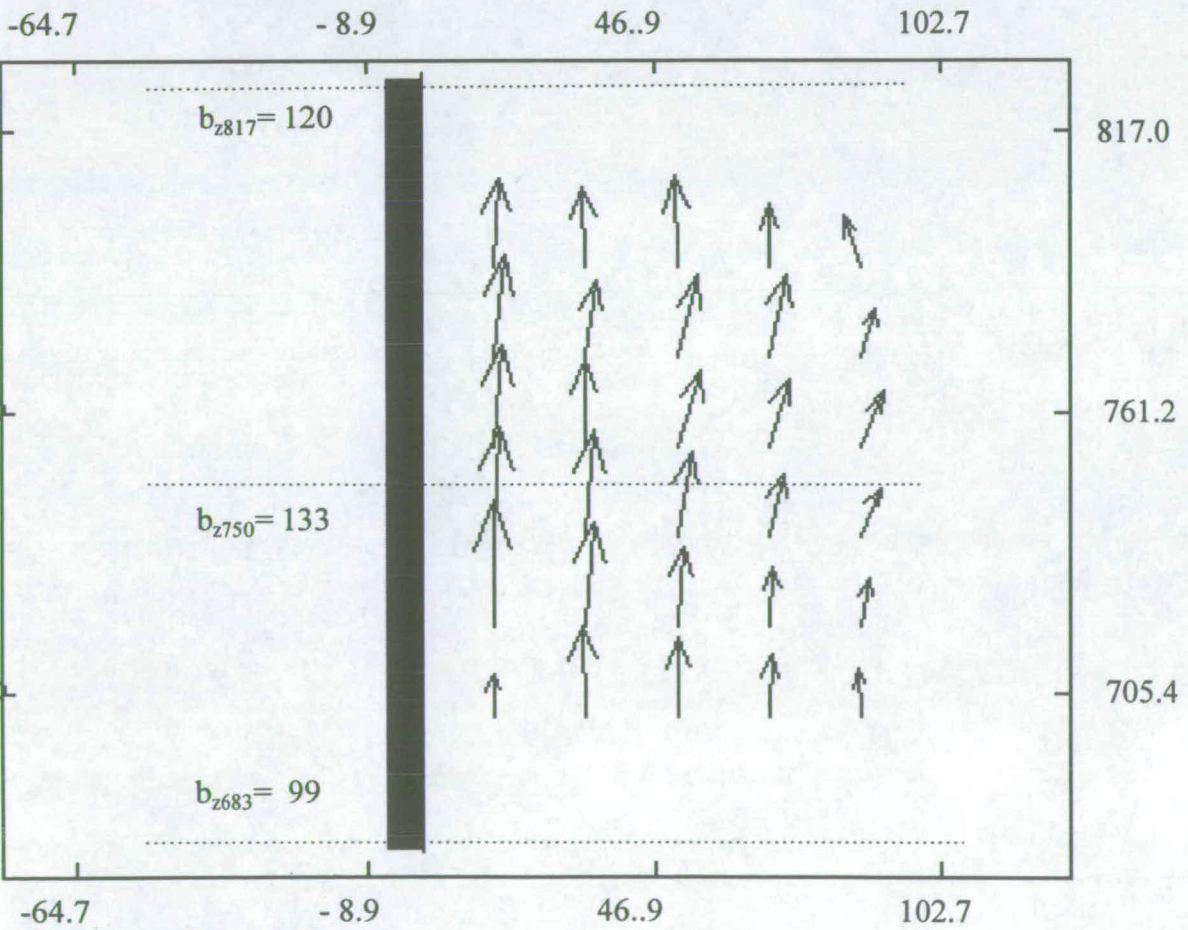
(REF.: LD0H06)



134 MM

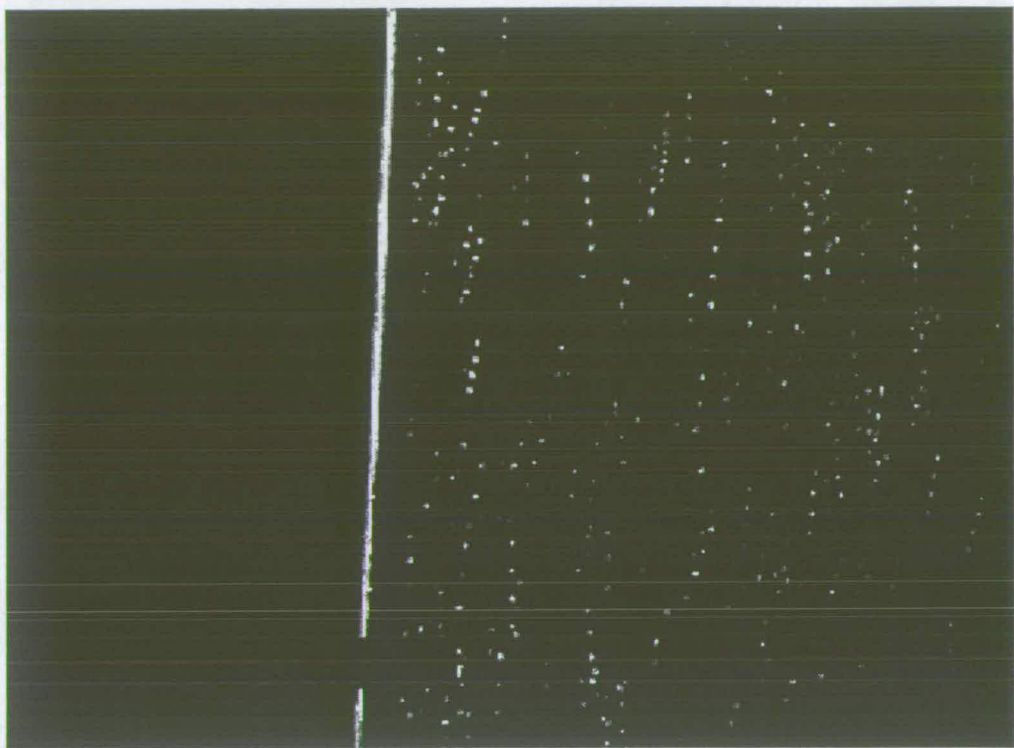
179 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 118

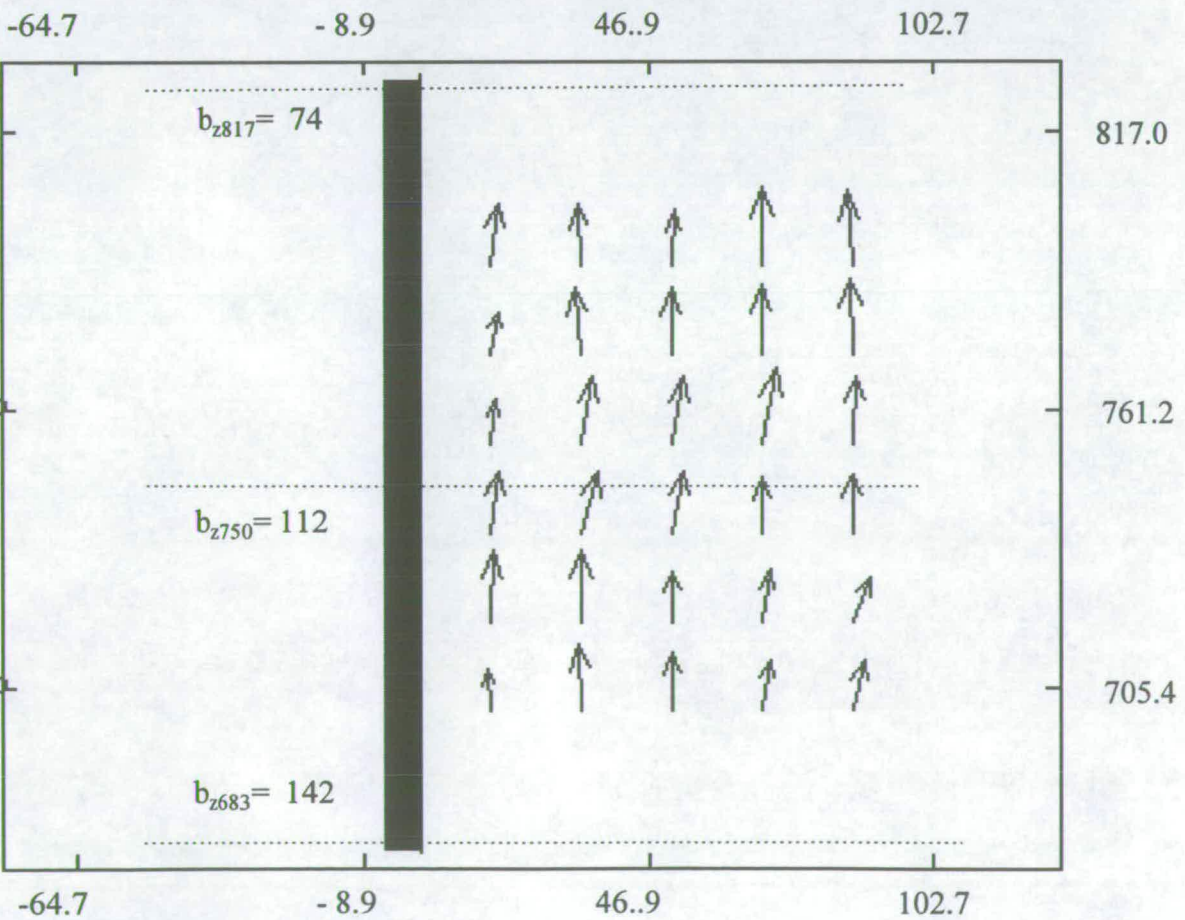
(REF.: LD0H07)



134 MM

179 MM

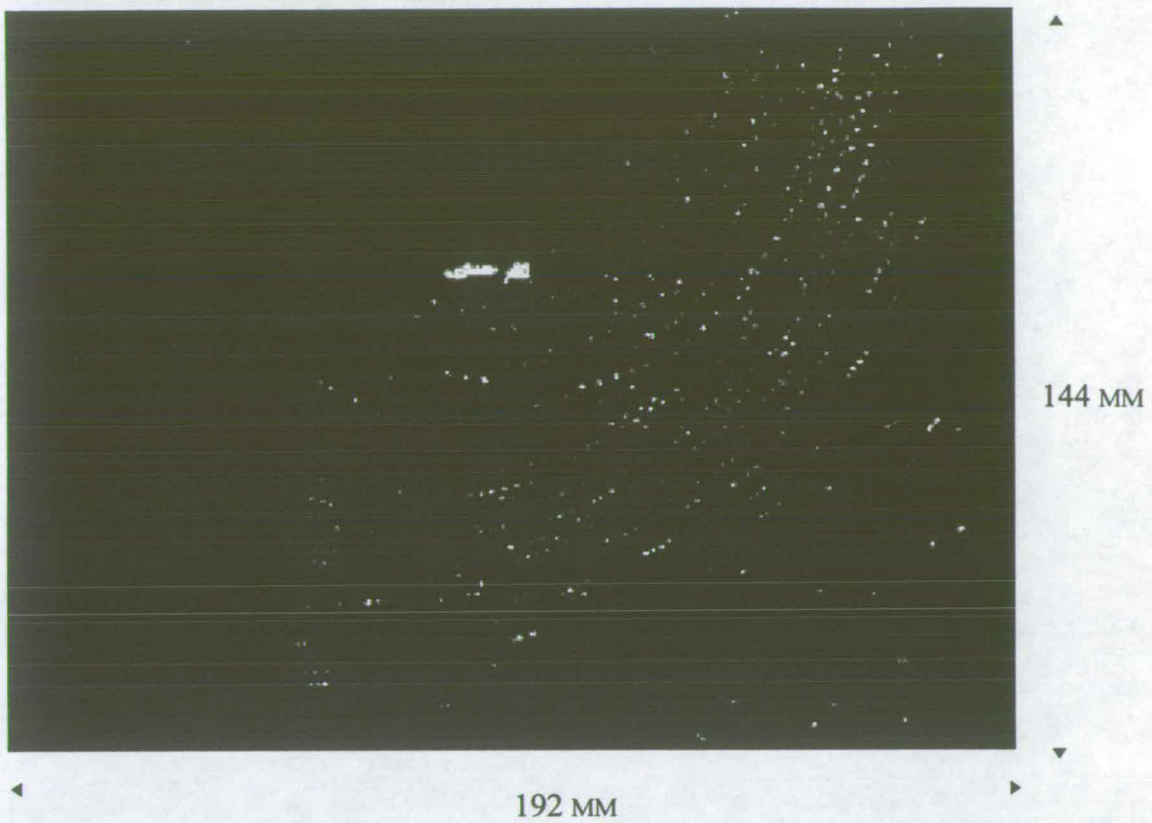
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 119

(REF.: LD0H08)



ORIGINAL IMAGE

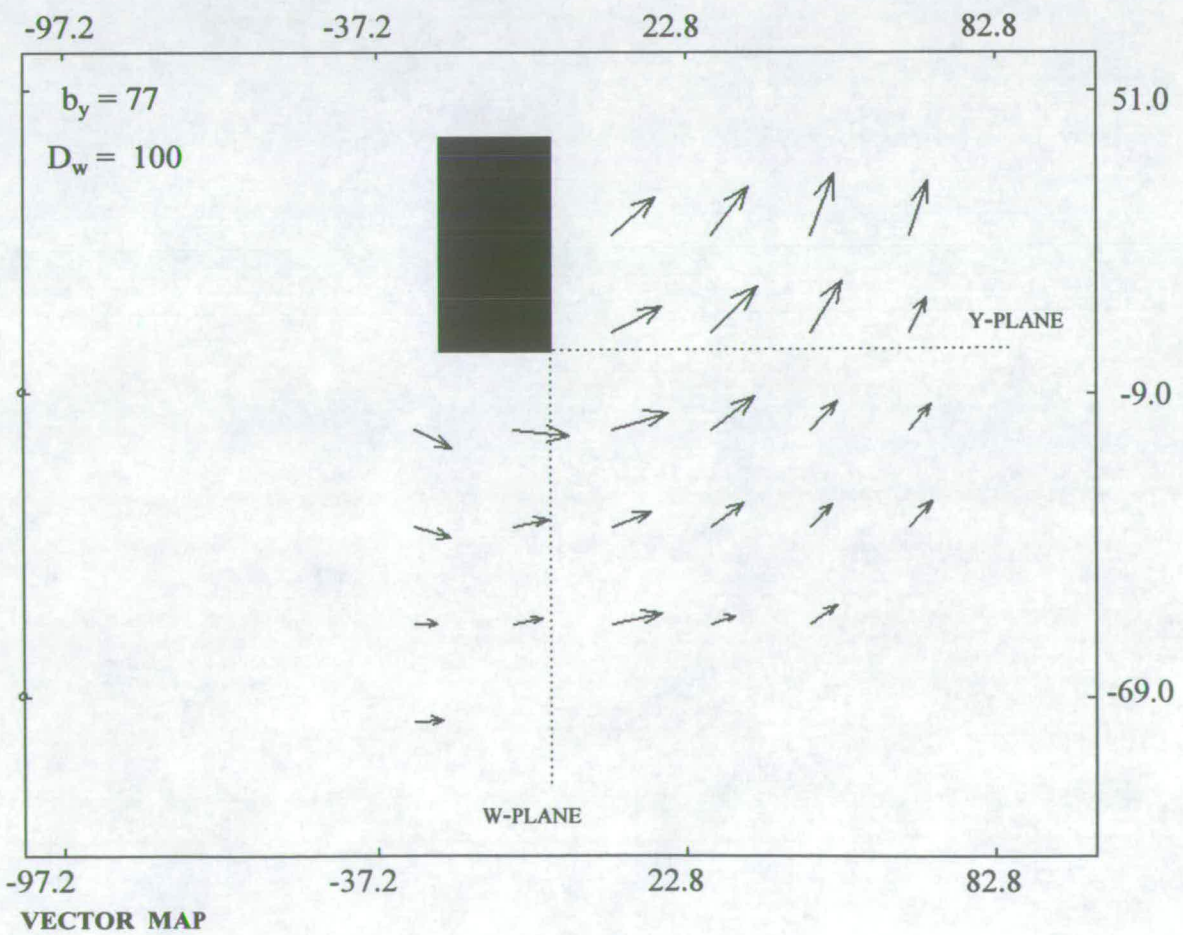
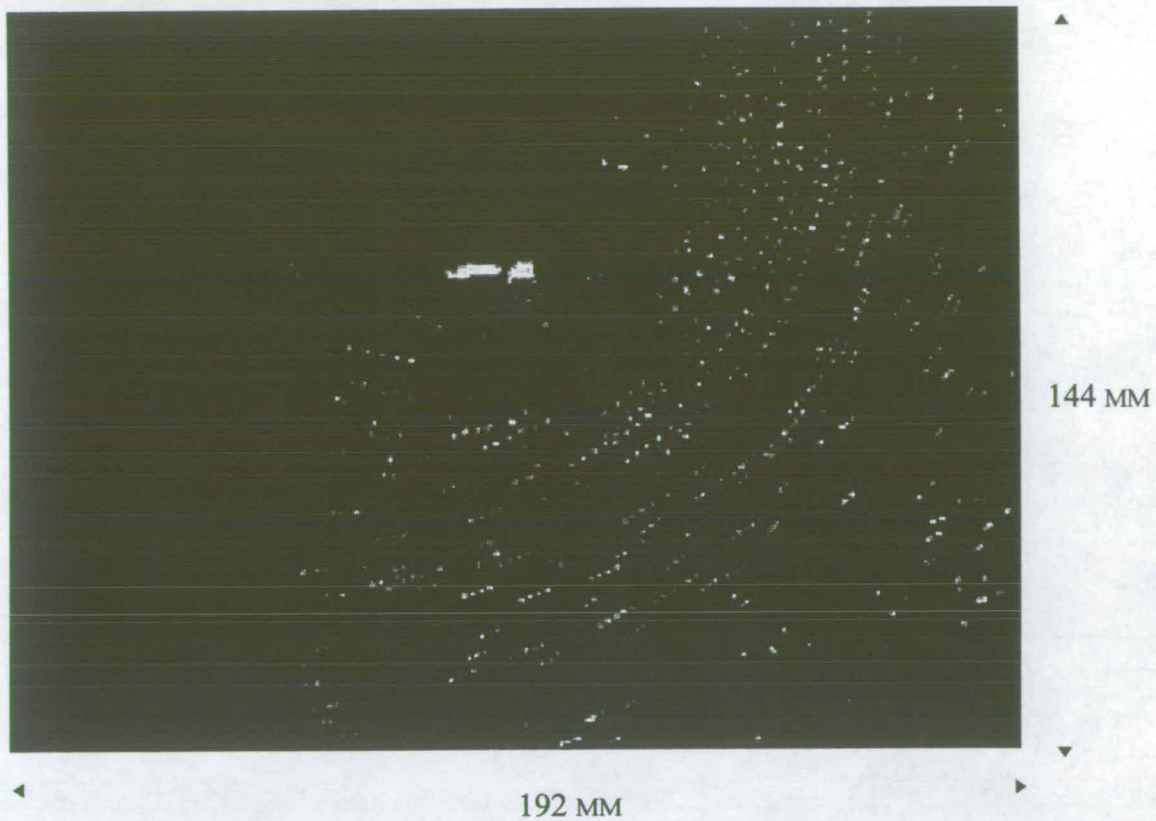
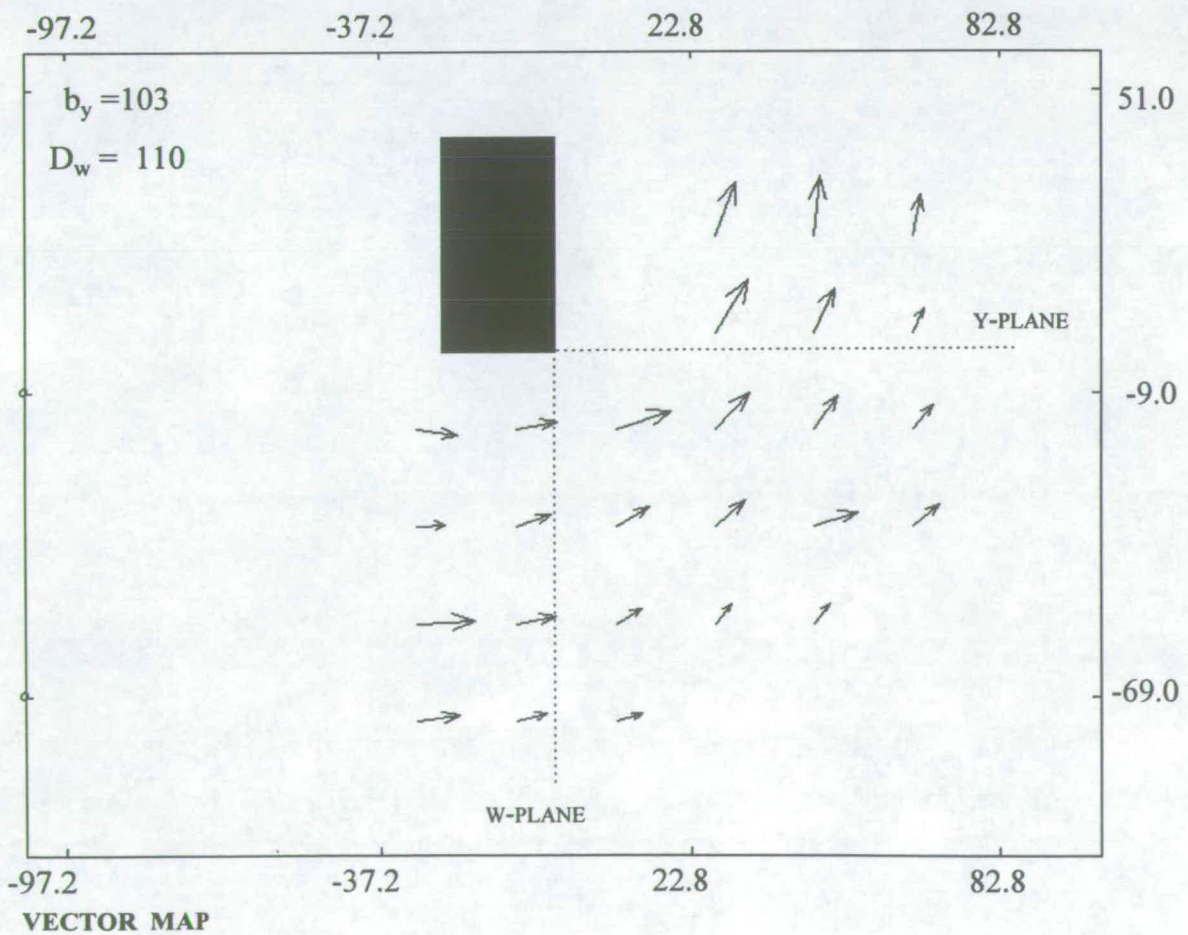


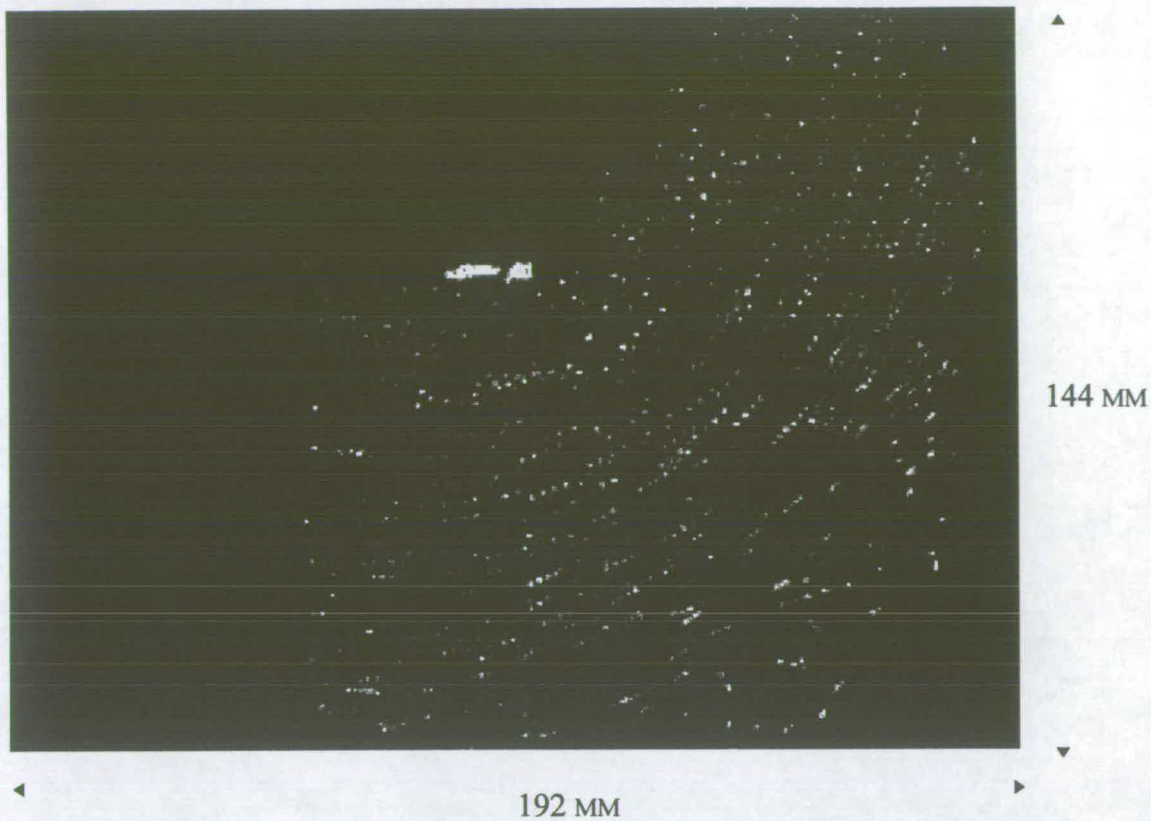
IMAGE No. 121

(REF.: LD200E01)

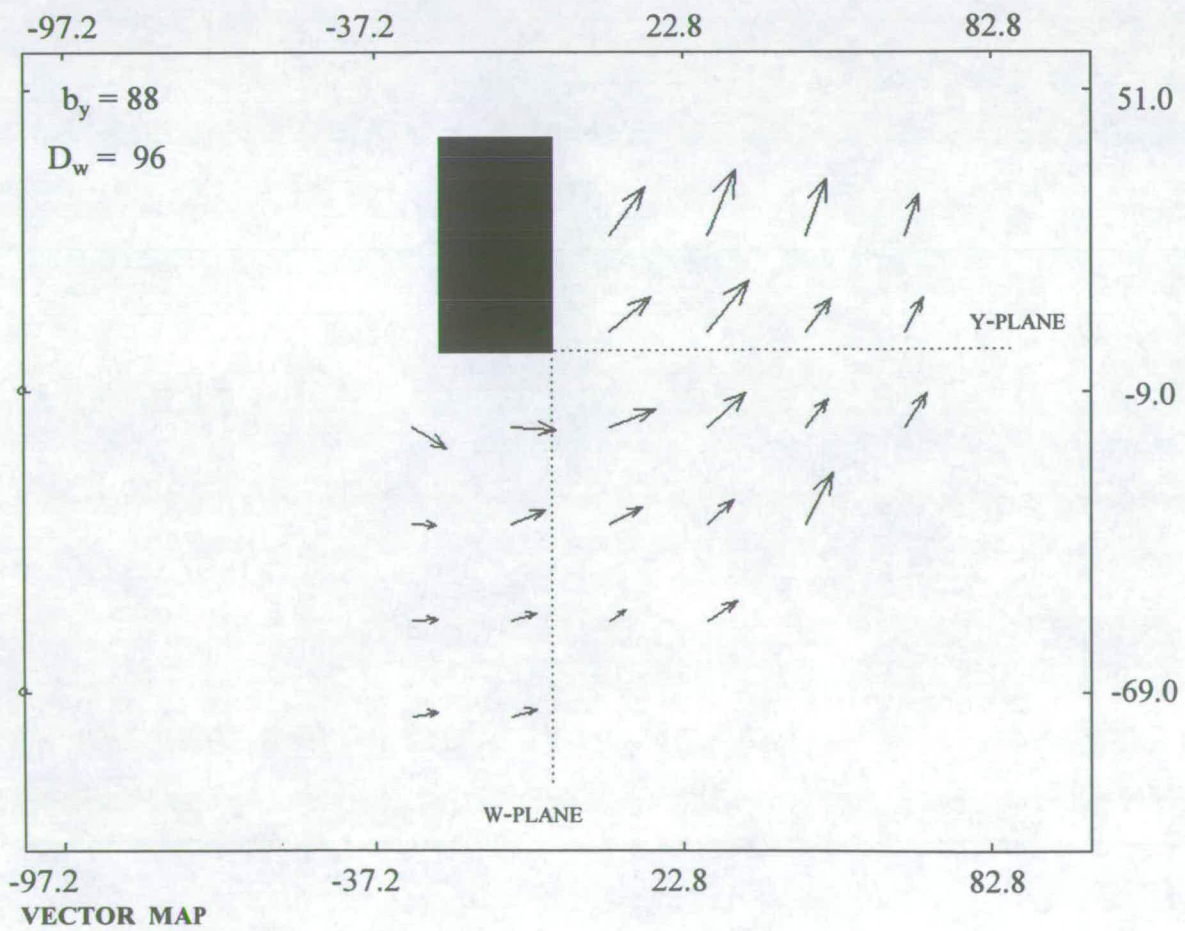


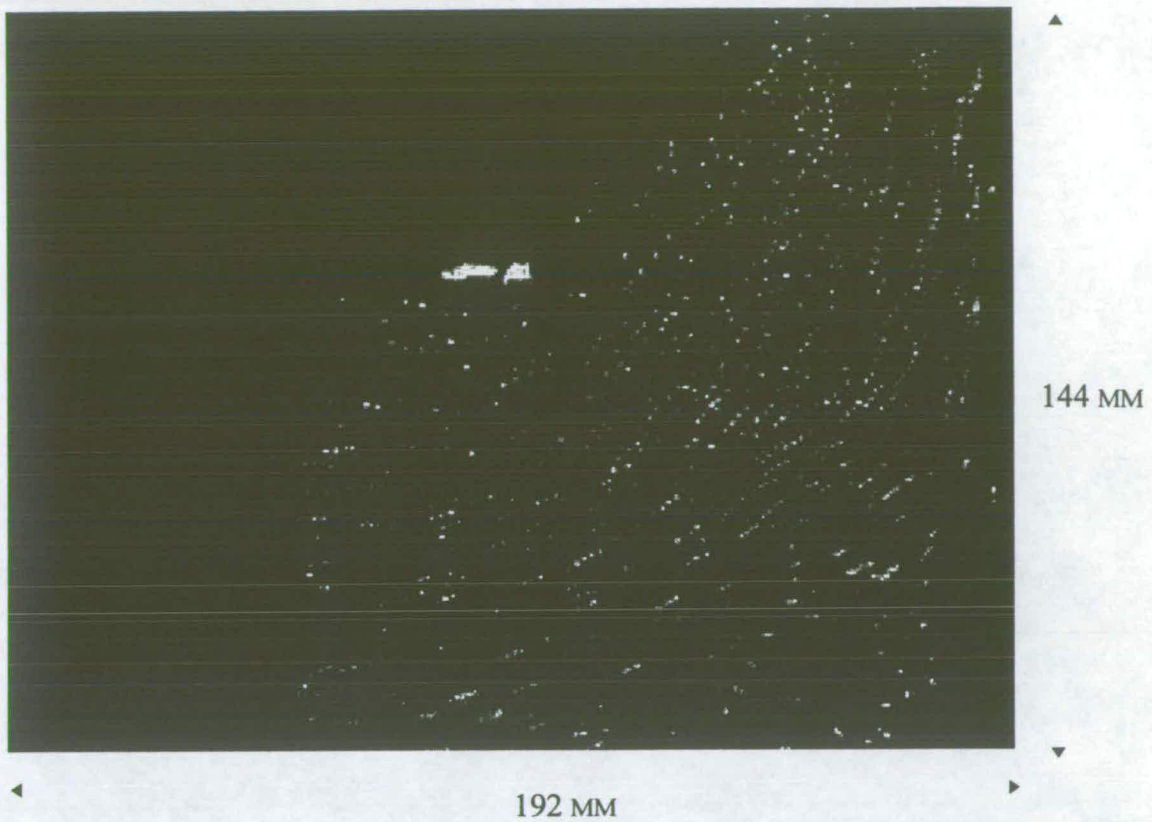
ORIGINAL IMAGE



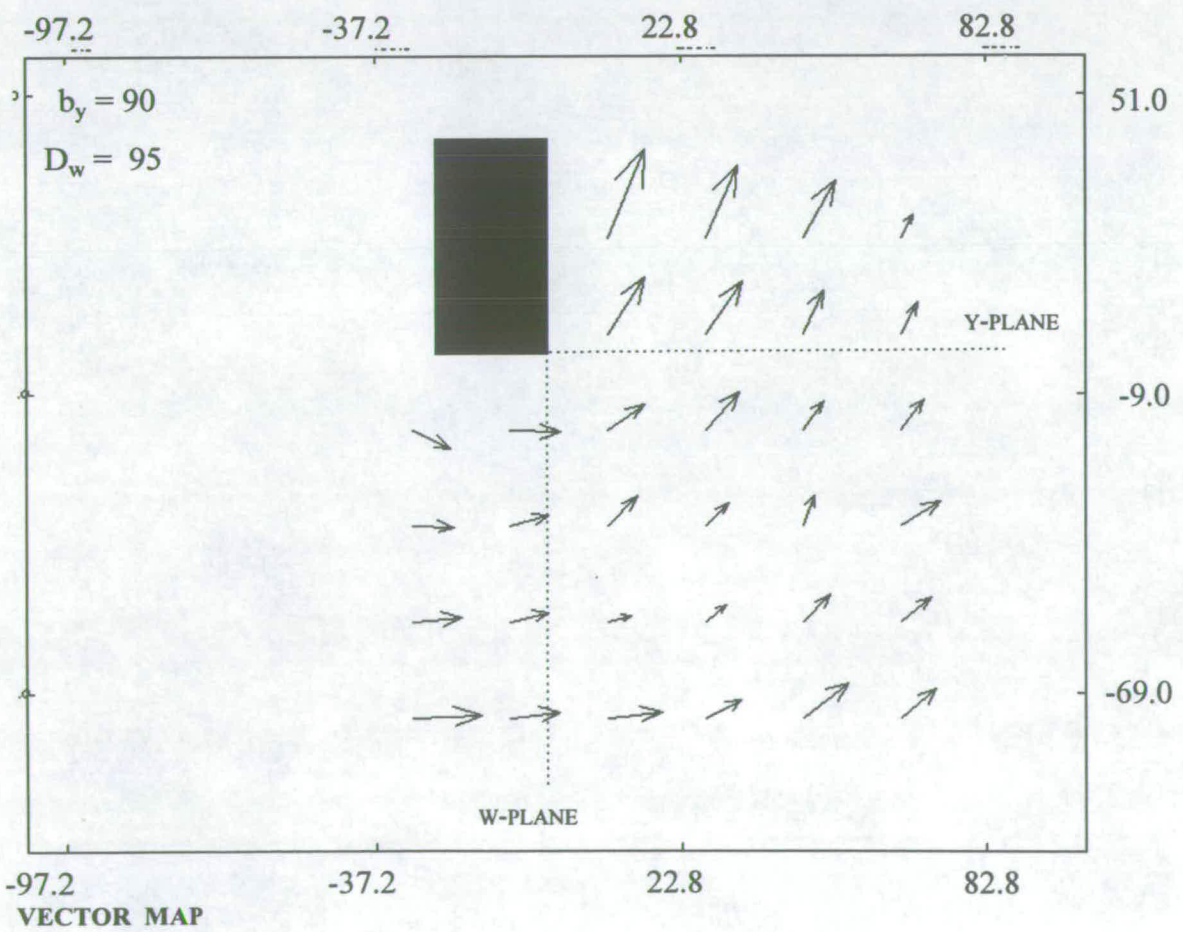


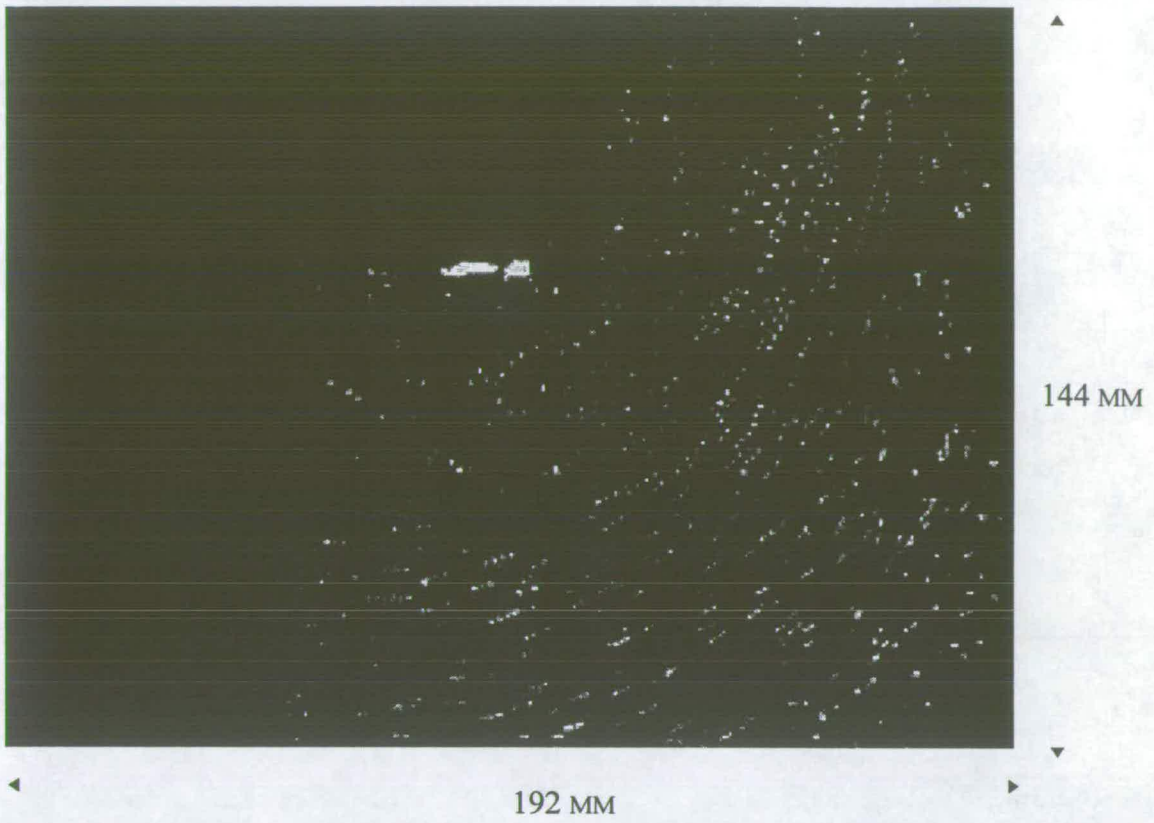
ORIGINAL IMAGE



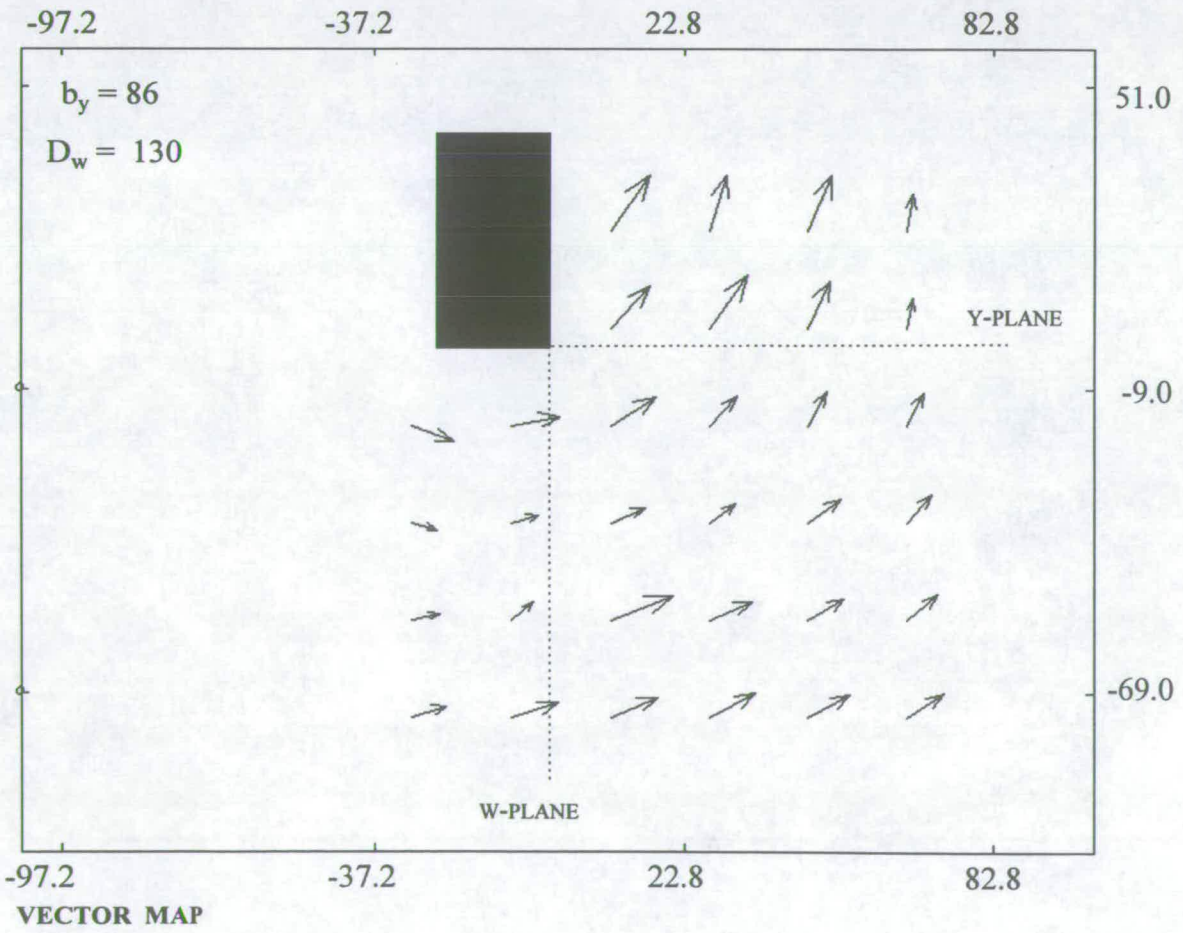


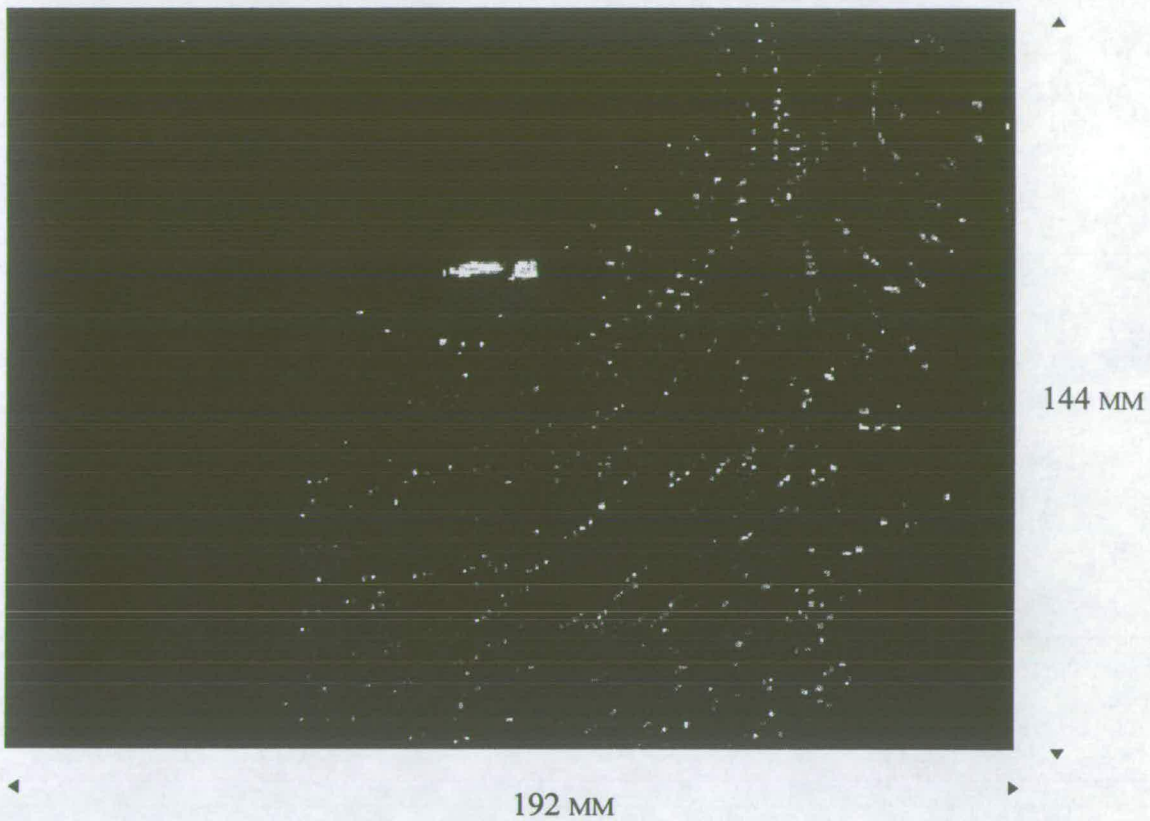
ORIGINAL IMAGE



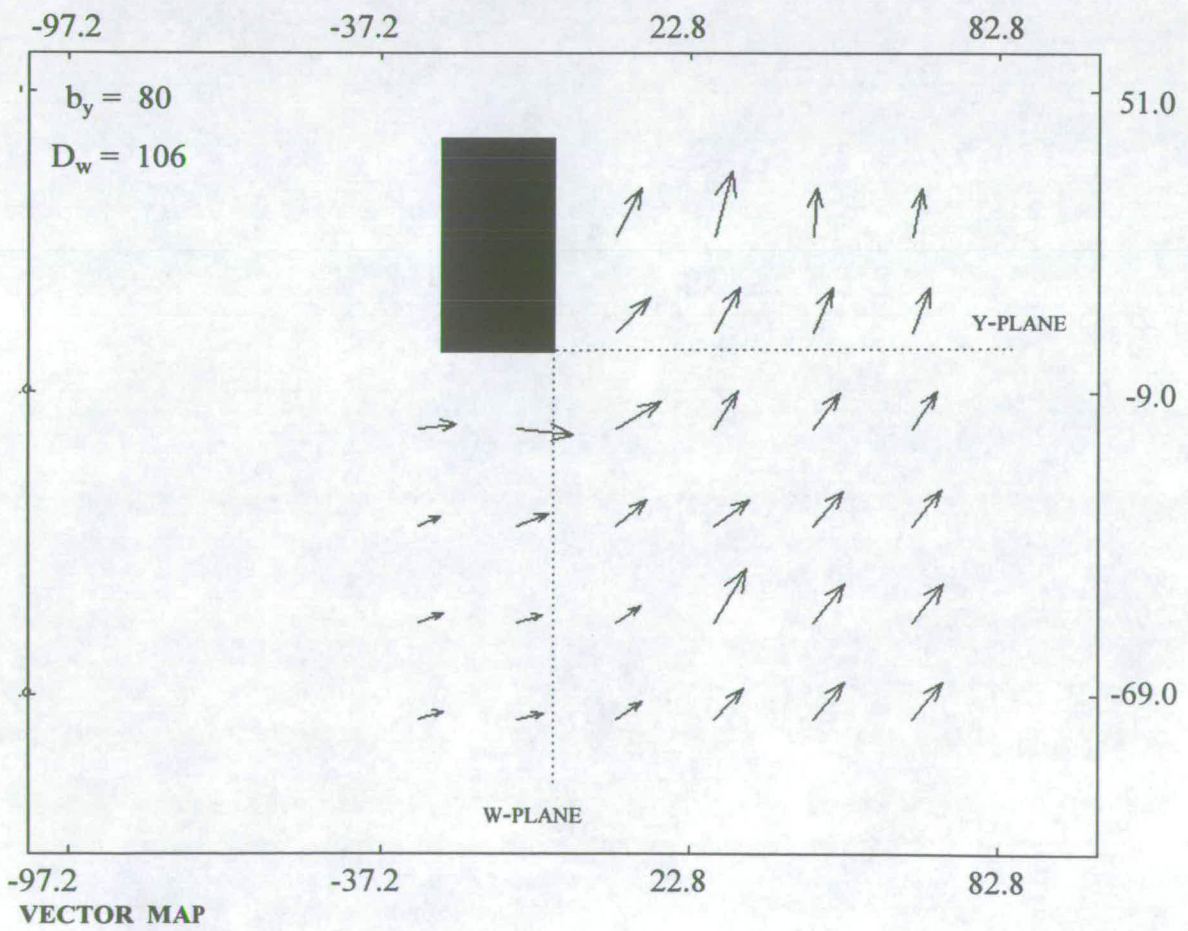


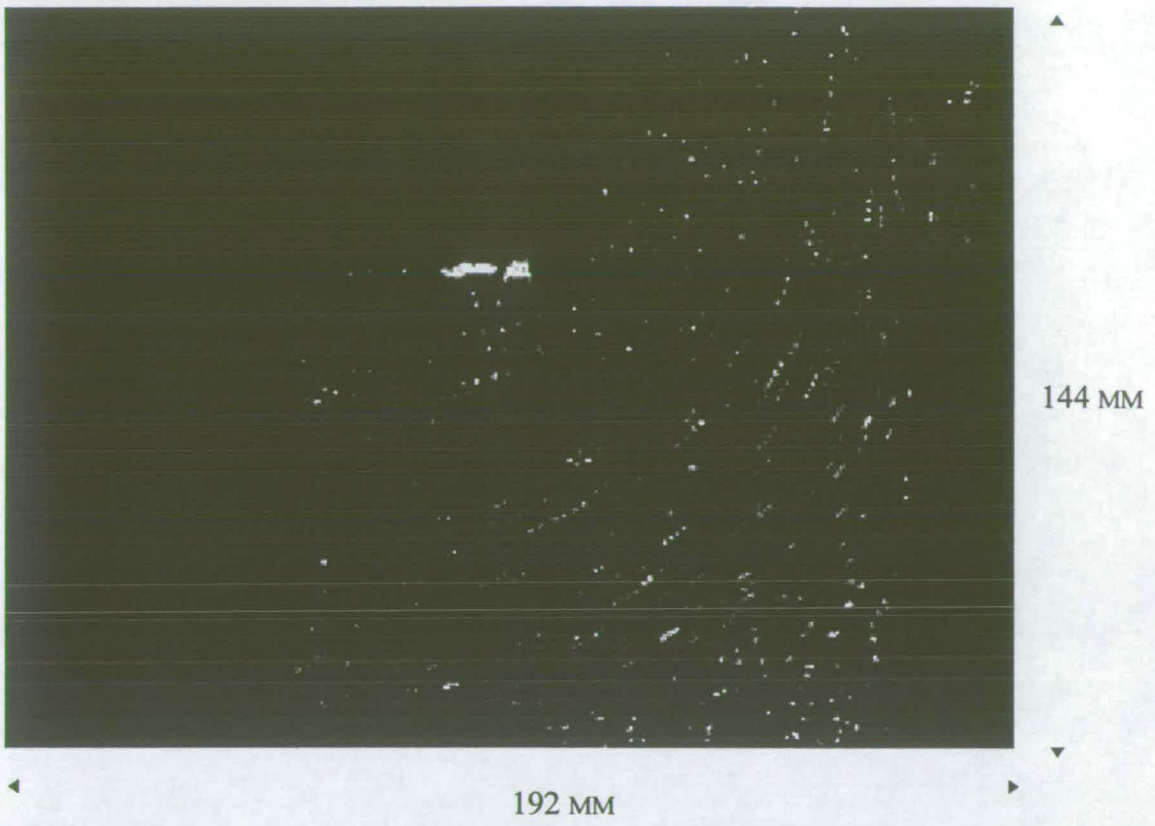
ORIGINAL IMAGE



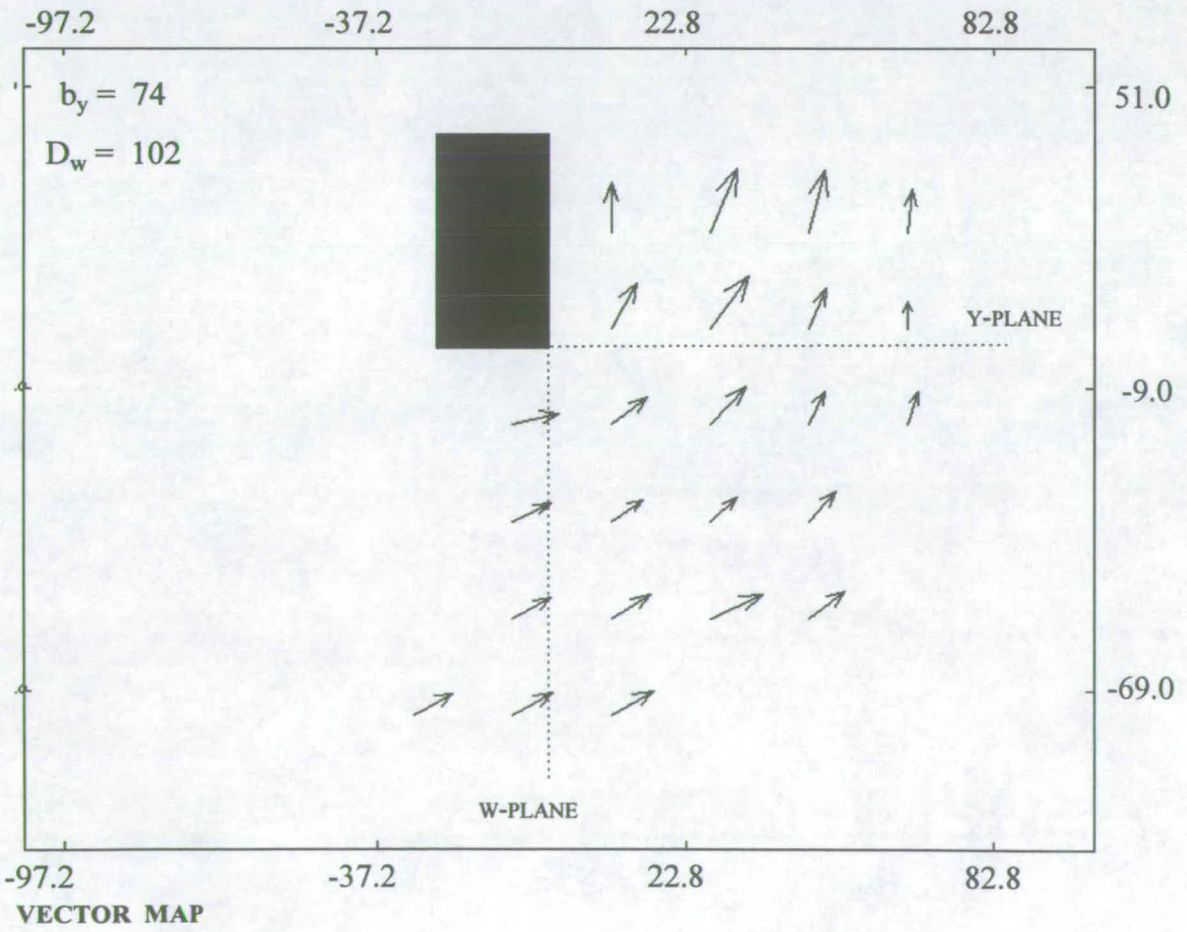


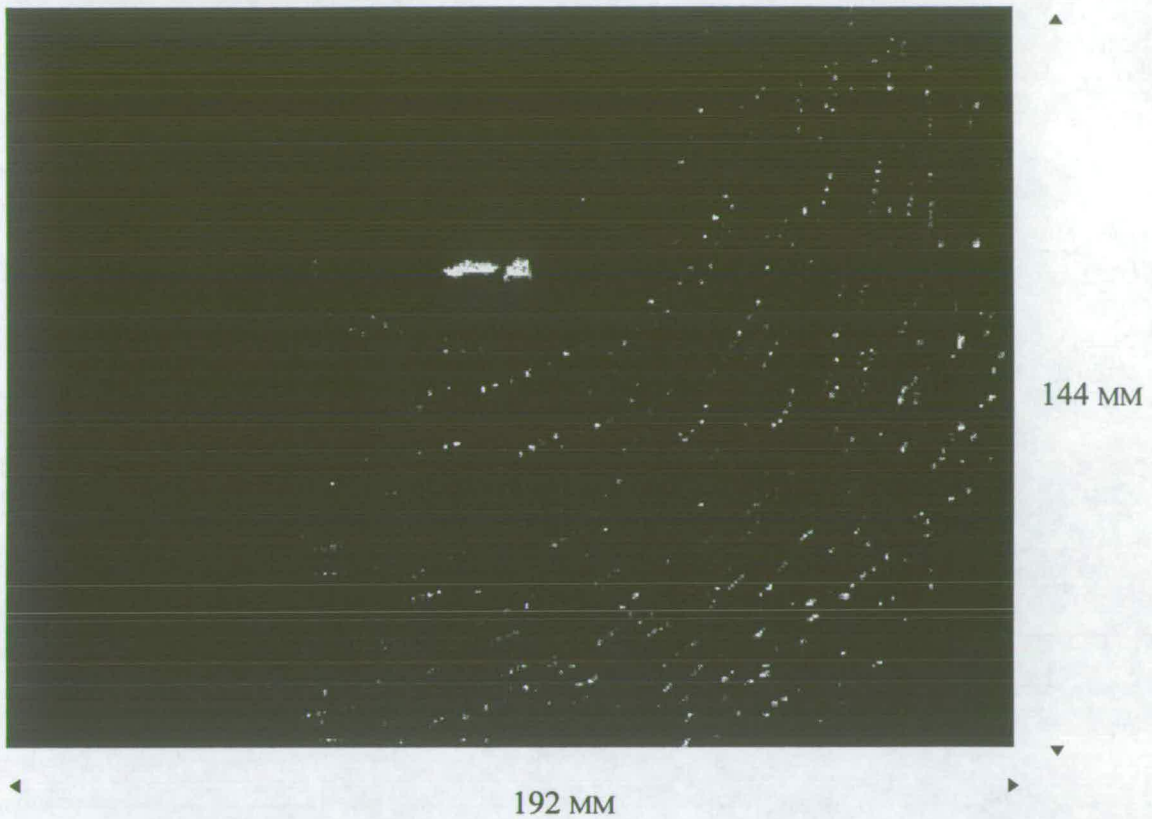
ORIGINAL IMAGE



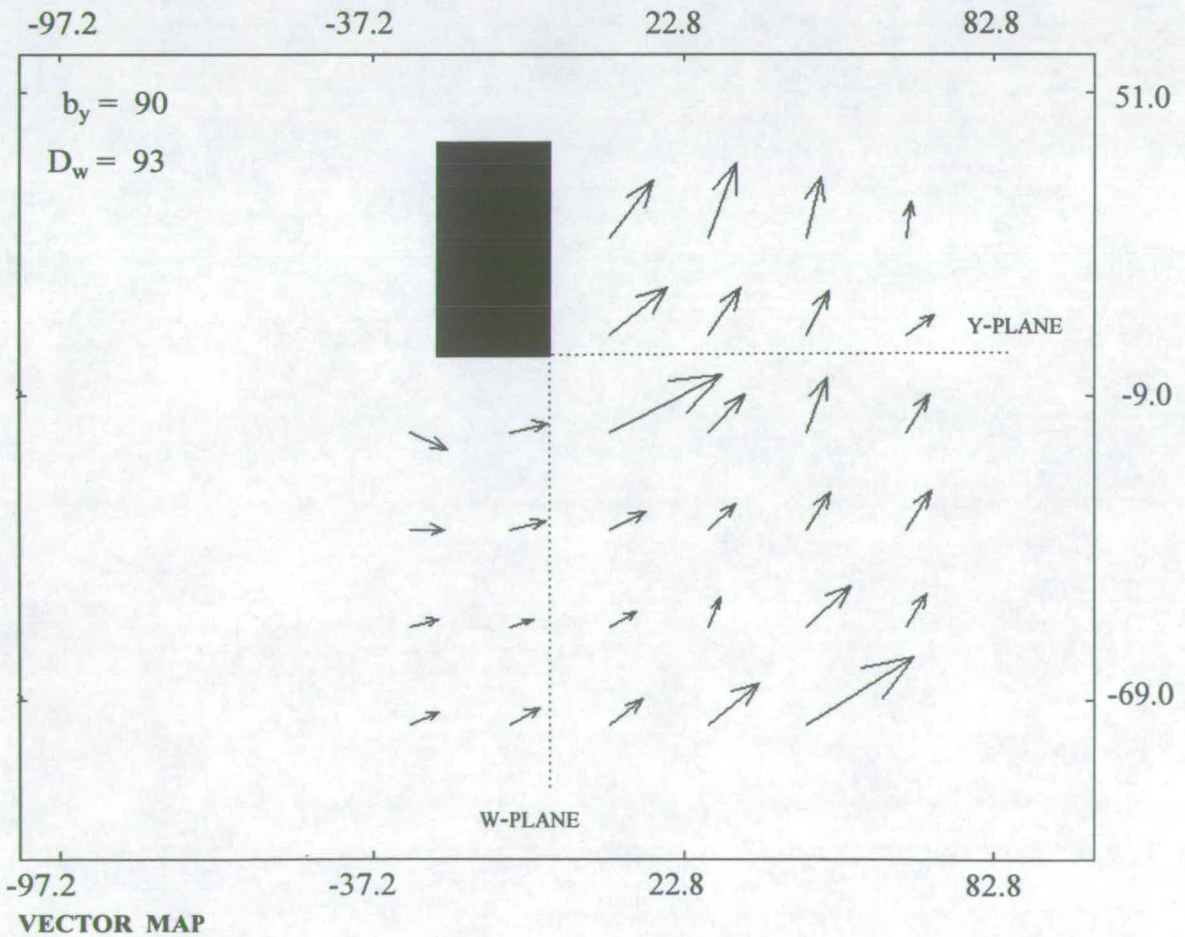


ORIGINAL IMAGE





**ORIGINAL IMAGE**



Im 113 Ld0h01

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
15.7	808.1	0.949	0.106	-5.974	0.667	1.000	
33.5	808.1	1.152	0.129	-6.805	0.759	1.000	
51.4	808.1	1.777	0.198	-6.672	0.745	1.000	
69.2	808.1	1.970	0.220	-7.817	0.872	1.000	
87.1	808.1	1.666	0.186	-8.355	0.932	1.051	
15.7	790.2	1.205	0.134	-6.048	0.675	1.000	
33.5	790.2	1.118	0.125	-6.173	0.689	1.000	
51.4	790.2	1.271	0.142	-7.747	0.865	1.015	
69.2	790.2	0.181	0.020	-10.162	1.134	1.000	
87.1	790.2	2.047	0.228	-8.216	0.917	1.000	
15.7	772.4	1.642	0.183	-6.012	0.671	1.000	
33.5	772.4	1.867	0.208	-6.100	0.681	1.000	
51.4	772.4	1.703	0.190	-7.951	0.887	1.000	
69.2	772.4	1.247	0.139	-8.491	0.948	1.000	
87.1	772.4	1.289	0.144	-9.215	1.028	1.098	
15.7	754.5	1.402	0.156	-7.385	0.824	1.000	
33.5	754.5	1.369	0.153	-5.136	0.573	1.000	
51.4	754.5	0.946	0.106	-7.015	0.783	1.000	
69.2	754.5	1.040	0.116	-7.803	0.871	1.000	
87.1	754.5	1.168	0.130	-11.140	1.243	1.000	
15.7	736.6	1.337	0.149	-5.929	0.662	1.000	
33.5	736.6	1.689	0.188	-5.826	0.650	1.000	
51.4	736.6	0.990	0.111	-6.492	0.725	1.000	
69.2	736.6	1.465	0.163	-9.031	1.008	1.000	
87.1	736.6	2.360	0.263	-8.379	0.935	1.000	
15.7	718.8	0.921	0.103	-4.924	0.550	1.000	
33.5	718.8	1.304	0.146	-5.921	0.661	1.000	
51.4	718.8	1.150	0.128	-8.390	0.936	1.016	
69.2	718.8	1.023	0.114	-12.326	1.376	1.000	
87.1	718.8	1.545	0.172	-10.494	1.171	1.217	
33.5	700.9	1.652	0.184	-5.686	0.635	1.000	
51.4	700.9	1.144	0.128	-8.539	0.953	1.000	
69.2	700.9	1.073	0.120	-12.403	1.384	1.000	
87.1	700.9	1.307	0.146	-11.291	1.260	1.093	

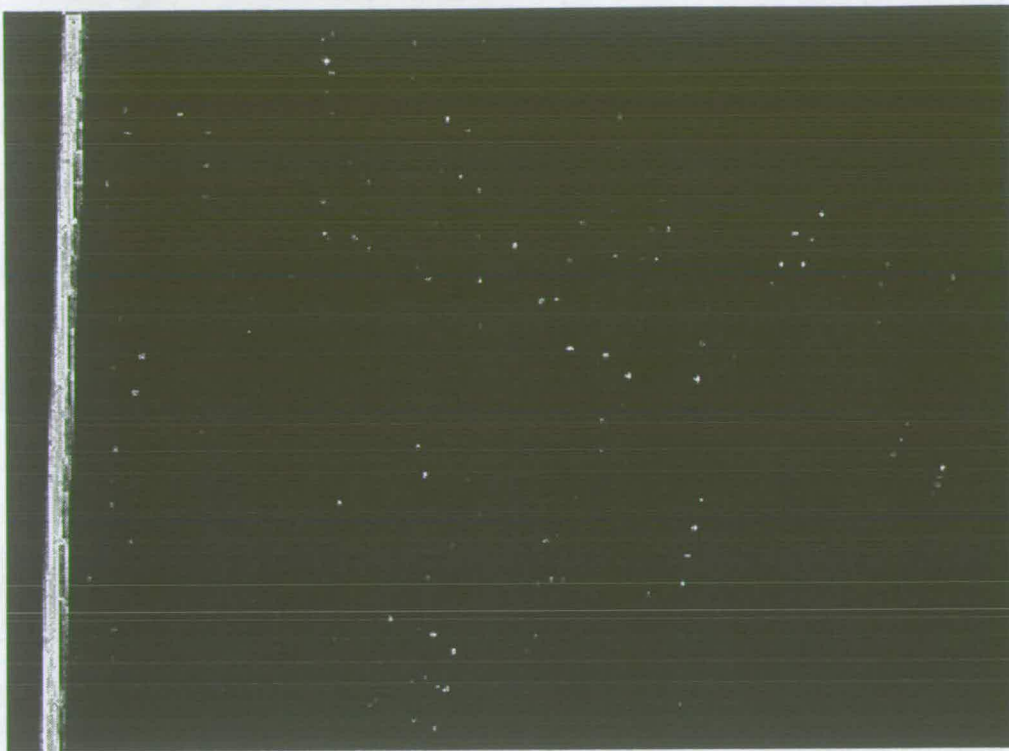
Im 114 Ld0h02

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
15.7	790.2	1.244	0.139	-9.661	1.078	1.000
33.5	790.2	1.353	0.151	-9.215	1.028	1.000
51.4	790.2	1.772	0.198	-7.043	0.786	1.000
69.2	790.2	1.606	0.179	-6.252	0.698	1.000
87.1	790.2	2.109	0.235	-5.636	0.629	1.000
15.7	772.4	0.575	0.064	-9.240	1.031	1.000
33.5	772.4	0.200	0.022	-8.208	0.916	1.000
51.4	772.4	-0.019	-0.002	-7.804	0.871	1.000
69.2	772.4	1.070	0.119	-5.900	0.658	1.000
87.1	772.4	1.310	0.146	-5.751	0.642	1.000
15.7	754.5	1.054	0.118	-8.242	0.920	1.000
33.5	754.5	-0.242	-0.027	-7.715	0.861	1.000
51.4	754.5	-0.137	-0.015	-6.676	0.745	1.000
69.2	754.5	0.166	0.019	-5.631	0.628	1.000
87.1	754.5	0.271	0.030	-5.134	0.573	1.043
15.7	736.6	0.130	0.015	-8.347	0.931	1.015
33.5	736.6	0.139	0.016	-6.572	0.733	1.000
51.4	736.6	-0.827	-0.092	-5.849	0.653	1.000
69.2	736.6	-0.018	-0.002	-5.062	0.565	1.000
87.1	736.6	-0.095	-0.011	-4.265	0.476	1.000
15.7	718.8	-0.605	-0.068	-9.641	1.076	1.000
33.5	718.8	0.051	0.006	-10.319	1.152	1.000
51.4	718.8	-0.342	-0.038	-7.237	0.808	1.097
69.2	718.8	-0.246	-0.027	-4.897	0.547	1.018
87.1	718.8	-0.188	-0.021	-3.729	0.416	1.000
15.7	700.9	0.072	0.008	-4.670	0.521	1.000
33.5	700.9	-0.153	-0.017	-6.362	0.710	1.000
51.4	700.9	-0.472	-0.053	-6.875	0.767	1.000
69.2	700.9	-0.665	-0.074	-5.207	0.581	1.000
87.1	700.9	-1.626	-0.181	-3.607	0.403	1.000

Im 115		Ld0h03		velocity			noise	
location				x	y	y		
x	y	x	x				snr	
mm	mm	pix/per	m/s	pix/per	m/s			
15.7	790.2	-0.493	-0.055	-9.319	1.040	1.000		
33.5	790.2	-0.147	-0.016	-6.517	0.727	1.000		
51.4	790.2	1.851	0.207	-5.640	0.629	1.000		
15.7	772.4	-0.582	-0.065	-7.091	0.791	1.388		
33.5	772.4	-0.858	-0.096	-5.377	0.600	1.000		
51.4	772.4	-3.664	-0.409	-4.101	0.458	1.348		
15.7	754.5	-0.867	-0.097	-8.082	0.902	1.000		
33.5	754.5	0.059	0.007	-4.218	0.471	1.000		
51.4	754.5	-1.326	-0.148	-4.585	0.512	1.058		
15.7	736.6	-0.946	-0.106	-8.834	0.986	1.000		
33.5	736.6	-0.846	-0.094	-4.547	0.507	1.000		
51.4	736.6	-0.787	-0.088	-5.107	0.570	1.078		
69.2	736.6	-2.295	-0.256	-4.574	0.510	1.538		
15.7	718.8	0.069	0.008	-7.957	0.888	1.000		
33.5	718.8	-0.170	-0.019	-6.085	0.679	1.000		
51.4	718.8	0.142	0.016	-6.161	0.688	1.000		
69.2	718.8	1.059	0.118	-4.923	0.549	1.000		
87.1	718.8	-5.598	-0.625	-4.634	0.517	1.297		
15.7	700.9	0.076	0.008	-4.725	0.527	1.000		
33.5	700.9	-0.493	-0.055	-6.451	0.720	1.000		
51.4	700.9	-0.873	-0.097	-5.521	0.616	1.000		
69.2	700.9	-0.834	-0.093	-5.244	0.585	1.000		

Im 116		Ld0h04		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
15.7	790.2	0.020	0.002	-5.929	0.662		1.000
33.5	790.2	-0.472	-0.053	-5.846	0.652		1.000
51.4	790.2	-0.115	-0.013	-5.033	0.562		1.000
69.2	790.2	-0.318	-0.035	-4.688	0.523		1.000
87.1	790.2	-0.551	-0.061	-3.118	0.348		1.000
15.7	772.4	-0.294	-0.033	-6.050	0.675		1.000
33.5	772.4	-0.794	-0.089	-5.071	0.566		1.000
51.4	772.4	-0.465	-0.052	-5.336	0.595		1.000
69.2	772.4	0.923	0.103	-4.373	0.488		1.000
87.1	772.4	0.250	0.028	-3.870	0.432		1.000
15.7	754.5	0.086	0.010	-5.881	0.656		1.000
33.5	754.5	-0.923	-0.103	-5.132	0.573		1.000
51.4	754.5	0.486	0.054	-4.497	0.502		1.000
69.2	754.5	0.548	0.061	-4.066	0.454		1.000
87.1	754.5	0.497	0.055	-3.675	0.410		1.000
15.7	736.6	1.831	0.204	-7.310	0.816		1.000
33.5	736.6	2.593	0.289	-7.292	0.814		1.415
51.4	736.6	1.830	0.204	-5.851	0.653		1.000
69.2	736.6	0.775	0.087	-3.947	0.441		1.078
87.1	736.6	1.160	0.130	-1.919	0.214		1.000
15.7	718.8	0.946	0.106	-10.058	1.122		1.000
33.5	718.8	0.982	0.110	-8.284	0.925		1.000
51.4	718.8	-1.032	-0.115	-5.019	0.560		1.000
69.2	718.8	-0.315	-0.035	-4.072	0.454		1.000
87.1	718.8	-2.792	-0.312	-1.608	0.179		1.320
15.7	700.9	0.208	0.023	-4.733	0.528		1.000
33.5	700.9	0.088	0.010	-6.025	0.672		1.000
51.4	700.9	-1.173	-0.131	-4.178	0.466		1.000
69.2	700.9	-0.927	-0.103	-3.153	0.352		1.000
87.1	700.9	-1.425	-0.159	-2.720	0.304		2.220

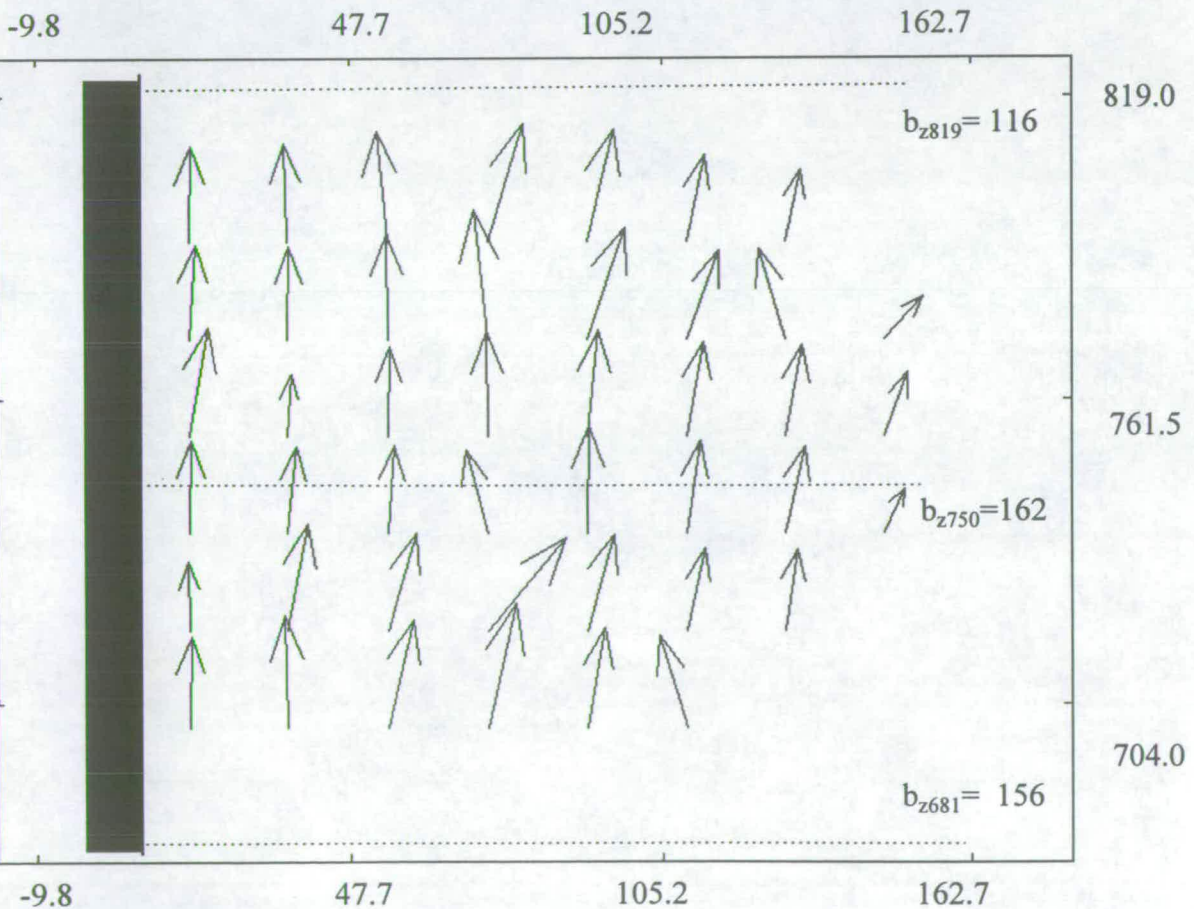
Im 117		Ld0h06		velocity			noise	
location								
x	y	x	x	y	y		snr	
mm	mm	pix/per	m/s	pix/per	m/s			
15.7	790.2	-0.378	-0.042	-10.338	1.154		1.000	
33.5	790.2	-0.637	-0.071	-7.189	0.802		1.024	
15.7	772.4	-0.835	-0.093	-9.273	1.035		1.000	
33.5	772.4	-0.817	-0.091	-4.307	0.481		1.000	
51.4	772.4	-0.371	-0.041	-4.062	0.453		1.000	
15.7	754.5	0.009	0.001	-10.530	1.175		1.000	
33.5	754.5	-1.442	-0.161	-8.572	0.957		1.000	
51.4	754.5	4.890	0.546	-4.025	0.449		1.072	
15.7	736.6	0.293	0.033	-9.252	1.032		1.191	
33.5	736.6	0.796	0.089	-8.375	0.935		1.147	
51.4	736.6	1.307	0.146	-8.930	0.997		1.000	
69.2	736.6	2.424	0.271	-7.322	0.817		1.000	
15.7	718.8	0.598	0.067	-9.183	1.025		1.000	
33.5	718.8	0.823	0.092	-9.171	1.023		1.000	
51.4	718.8	0.820	0.091	-8.882	0.991		1.045	
69.2	718.8	0.878	0.098	-8.055	0.899		1.027	
15.7	700.9	-0.046	-0.005	-4.691	0.524		1.000	
33.5	700.9	2.947	0.329	-7.472	0.834		1.058	
51.4	700.9	-1.301	-0.145	-9.841	1.098		1.000	
69.2	700.9	0.156	0.017	-6.800	0.759		1.000	



138 MM

184 MM

ORIGINAL IMAGE



-9.8

47.7

105.2

162.7

819.0

761.5

704.0

$b_{z819}=116$

$b_{z750}=162$

$b_{z681}=156$

VECTOR MAP

IMAGE NO. 96

(REF.: D200H13)

**Image 89 d200h03**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	
17.8	791.4	0.273	0.031	-9.233	1.062	1.000
36.2	791.4	-1.710	-0.197	-5.225	0.601	1.000
54.6	791.4	0.390	0.045	-7.833	0.901	1.000
17.8	773.0	-0.316	-0.036	-8.467	0.974	1.095
36.2	773.0	-0.675	-0.078	-7.593	0.873	1.041
54.6	773.0	-0.569	-0.065	-7.738	0.890	1.011
17.8	754.6	-0.013	-0.002	-9.746	1.121	1.000
36.2	754.6	-0.420	-0.048	-8.748	1.006	1.074
54.6	754.6	-0.981	-0.113	-8.979	1.033	1.000
17.8	736.2	0.249	0.029	-10.287	1.183	1.000
36.2	736.2	0.004	0.000	-8.661	0.996	1.001
54.6	736.2	-0.151	-0.017	-7.044	0.810	1.125
73.0	736.2	-0.909	-0.104	-4.849	0.558	1.000
17.8	717.8	0.322	0.037	-10.002	1.150	1.279
36.2	717.8	0.960	0.110	-8.027	0.923	1.089
54.6	717.8	0.797	0.092	-7.241	0.833	1.000
17.8	699.4	-0.059	-0.007	-12.311	1.416	1.000
36.2	699.4	1.518	0.175	-8.101	0.932	1.112
54.6	699.4	4.173	0.480	-4.264	0.490	1.083

**image 90 d200h06**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	
17.8	791.4	0.120	0.014	-12.209	1.404	1.052
36.2	791.4	0.929	0.107	-10.438	1.200	1.000
17.8	773.0	-0.745	-0.086	-13.837	1.591	1.000
36.2	773.0	0.298	0.034	-12.300	1.414	1.163
54.6	773.0	1.098	0.126	-10.684	1.229	1.000
17.8	754.6	-0.657	-0.076	-13.921	1.601	1.000
36.2	754.6	0.275	0.032	-13.306	1.530	1.000
54.6	754.6	2.251	0.259	-9.117	1.048	1.000
73.0	754.6	-0.949	-0.109	-12.529	1.441	1.000
17.8	736.2	1.764	0.203	-9.902	1.139	1.000
36.2	736.2	4.675	0.538	-4.051	0.466	1.121
54.6	736.2	2.388	0.275	-8.636	0.993	1.173
17.8	717.8	2.005	0.231	-9.798	1.127	1.000
36.2	717.8	2.913	0.335	-9.475	1.090	1.083
54.6	717.8	2.567	0.295	-10.084	1.160	1.013
17.8	699.4	0.533	0.061	-11.971	1.377	1.000
36.2	699.4	1.882	0.216	-11.563	1.330	1.033
54.6	699.4	1.522	0.175	-14.905	1.714	1.755

**image 91 d200h07**

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	snr
17.8	791.4	0.451	0.052	-6.007	0.691	1.000
36.2	791.4	2.316	0.266	-8.528	0.981	1.050
54.6	791.4	2.306	0.265	-8.011	0.921	1.000
17.8	773.0	1.511	0.174	-5.889	0.677	1.000
36.2	773.0	3.026	0.348	-11.050	1.271	1.345
54.6	773.0	5.789	0.666	-12.346	1.420	1.013
73.0	773.0	7.230	0.831	-6.934	0.797	1.024
17.8	754.6	0.475	0.055	-12.063	1.387	1.000
36.2	754.6	1.820	0.209	-11.440	1.316	1.070
54.6	754.6	0.809	0.093	-10.728	1.234	1.000
73.0	754.6	-0.038	-0.004	-8.007	0.921	1.000
91.4	754.6	-1.229	-0.141	-4.977	0.572	1.000
109.8	754.6	-0.655	-0.075	-5.508	0.633	1.008
17.8	736.2	0.488	0.056	-11.633	1.338	1.000
36.2	736.2	0.751	0.086	-9.464	1.088	1.115
54.6	736.2	-0.264	-0.030	-7.962	0.916	1.000
73.0	736.2	-1.950	-0.224	-4.774	0.549	1.000
91.4	736.2	-0.803	-0.092	-5.817	0.669	1.000
17.8	717.8	-1.009	-0.116	-5.539	0.637	1.000
36.2	717.8	2.771	0.319	-9.959	1.145	1.300
54.6	717.8	0.673	0.077	-8.004	0.920	1.015
73.0	717.8	-0.571	-0.066	-6.541	0.752	1.000
17.8	699.4	-1.053	-0.121	-5.052	0.581	1.000
36.2	699.4	3.485	0.401	-10.205	1.174	1.035
54.6	699.4	1.304	0.150	-7.962	0.916	1.067
73.0	699.4	-0.067	-0.008	-5.426	0.624	1.000

**image 92 d200h08**

location	location	velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	snr
17.8	773.0	0.252	0.029	-10.949	1.259	1.000
36.2	773.0	-2.163	-0.249	-10.169	1.169	1.000
17.8	754.6	-0.053	-0.006	-10.155	1.168	1.000
36.2	754.6	-3.778	-0.435	-6.395	0.735	1.054
54.6	754.6	1.009	0.116	-8.176	0.940	1.000
17.8	736.2	0.080	0.009	-9.384	1.079	1.000
36.2	736.2	-0.650	-0.075	-8.877	1.021	1.015
54.6	736.2	-0.247	-0.028	-8.603	0.989	1.010
17.8	717.8	0.395	0.045	-11.282	1.297	1.000
36.2	717.8	0.866	0.100	-13.578	1.561	1.000
54.6	717.8	0.855	0.098	-10.103	1.162	1.042
73.0	717.8	0.218	0.025	-6.185	0.711	1.000
17.8	699.4	-0.030	-0.003	-11.490	1.321	1.000
36.2	699.4	2.056	0.236	-12.300	1.414	1.000
54.6	699.4	1.702	0.196	-10.847	1.247	1.036
73.0	699.4	2.596	0.299	-10.149	1.167	1.020

**image 93 d200h09**

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	snr
17.8	791.4	0.417	0.048	-13.243	1.523	1.000
36.2	791.4	0.144	0.017	-10.910	1.255	1.000
54.6	791.4	0.566	0.065	-11.898	1.368	1.000
17.8	773.0	1.182	0.136	-8.061	0.927	1.000
36.2	773.0	4.917	0.565	-9.945	1.144	1.232
54.6	773.0	3.035	0.349	-11.151	1.282	1.999
17.8	754.6	-0.098	-0.011	-12.275	1.412	1.000
36.2	754.6	2.674	0.308	-10.707	1.231	1.260
54.6	754.6	5.041	0.580	-11.909	1.370	1.145
17.8	736.2	-0.041	-0.005	-8.754	1.007	1.000
36.2	736.2	0.556	0.064	-9.559	1.099	1.258
54.6	736.2	2.369	0.272	-10.816	1.244	1.065
17.8	717.8	-0.377	-0.043	-2.581	0.297	1.000
36.2	717.8	-0.111	-0.013	-11.198	1.288	1.000
54.6	717.8	0.938	0.108	-10.625	1.222	1.000
17.8	699.4	-0.108	-0.012	-12.784	1.470	1.000
36.2	699.4	-0.543	-0.062	-10.387	1.194	1.000
54.6	699.4	1.288	0.148	-10.522	1.210	1.321
73.0	699.4	3.932	0.452	-10.220	1.175	1.165

image 94 d200h10

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	snr
17.8	791.4	0.069	0.008	-10.784	1.240	1.000
36.2	791.4	-2.681	-0.308	-10.616	1.221	1.025
54.6	791.4	-6.909	-0.795	-10.072	1.158	1.019
73.0	791.4	-1.776	-0.204	-11.020	1.267	1.008
91.4	791.4	0.025	0.003	-7.784	0.895	1.000
109.8	791.4	1.925	0.221	-9.198	1.058	1.000
128.2	791.4	1.943	0.223	-5.752	0.662	1.000
17.8	773.0	-0.655	-0.075	-11.159	1.283	1.042
36.2	773.0	-1.489	-0.171	-10.669	1.227	1.117
54.6	773.0	-2.692	-0.310	-11.557	1.329	1.052
73.0	773.0	-0.489	-0.056	-14.924	1.716	1.067
91.4	773.0	3.820	0.439	-11.120	1.279	1.463
109.8	773.0	-0.509	-0.059	-11.617	1.336	1.000
128.2	773.0	4.085	0.470	-5.407	0.622	1.258
17.8	754.6	0.282	0.032	-12.789	1.471	1.000
36.2	754.6	-0.520	-0.060	-9.952	1.144	1.000
54.6	754.6	-1.617	-0.186	-10.675	1.228	1.182
73.0	754.6	-0.019	-0.002	-11.928	1.372	1.027
91.4	754.6	1.564	0.180	-11.669	1.342	1.026
109.8	754.6	-2.177	-0.250	-9.519	1.095	1.000
128.2	754.6	-9.755	-1.122	-8.560	0.984	1.022
146.6	754.6	3.100	0.356	-2.814	0.324	1.230
17.8	736.2	-0.822	-0.095	-11.209	1.289	1.162
36.2	736.2	-1.567	-0.180	-10.365	1.192	1.000
54.6	736.2	-2.749	-0.316	-9.338	1.074	1.000
73.0	736.2	-1.207	-0.139	-10.291	1.183	1.035
91.4	736.2	0.184	0.021	-10.295	1.184	1.000
109.8	736.2	-2.818	-0.324	-8.646	0.994	1.016
128.2	736.2	-3.460	-0.398	-6.213	0.714	1.000
146.6	736.2	-2.238	-0.257	-4.583	0.527	1.058
17.8	717.8	-1.120	-0.129	-11.269	1.296	1.000
36.2	717.8	-2.218	-0.255	-10.612	1.220	1.000
54.6	717.8	-3.482	-0.400	-9.503	1.093	1.137
73.0	717.8	-2.555	-0.294	-9.091	1.046	1.445
91.4	717.8	-0.261	-0.030	-9.278	1.067	1.000
109.8	717.8	-1.308	-0.150	-7.366	0.847	1.053
128.2	717.8	-0.981	-0.113	-7.408	0.852	1.000
146.6	717.8	-3.621	-0.416	-1.751	0.201	1.000
17.8	699.4	0.051	0.006	-11.746	1.351	1.000
36.2	699.4	-1.275	-0.147	-12.114	1.393	1.000
54.6	699.4	-6.641	-0.764	-7.517	0.865	1.117
73.0	699.4	-3.026	-0.348	-9.279	1.067	1.924
91.4	699.4	-1.645	-0.189	-9.019	1.037	1.002
109.8	699.4	-1.418	-0.163	-6.383	0.734	1.215
128.2	699.4	-2.034	-0.234	-3.380	0.389	1.000

image 95 d200h11

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	snr
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	
17.8	791.4	-0.052	-0.006	-9.301	1.070	1.158
36.2	791.4	0.362	0.042	-10.837	1.246	1.206
54.6	791.4	1.502	0.173	-10.359	1.191	1.446
73.0	791.4	2.641	0.304	-8.389	0.965	1.000
91.4	791.4	2.720	0.313	-5.876	0.676	1.027
17.8	773.0	-0.277	-0.032	-8.264	0.950	1.000
36.2	773.0	0.161	0.019	-12.450	1.432	1.000
54.6	773.0	0.794	0.091	-10.593	1.218	1.274
73.0	773.0	4.554	0.524	-8.780	1.010	1.296
91.4	773.0	2.505	0.288	-4.945	0.569	1.000
109.8	773.0	2.480	0.285	-3.830	0.440	1.020
17.8	754.6	0.429	0.049	-6.005	0.691	1.000
36.2	754.6	-0.100	-0.012	-9.295	1.069	1.190
54.6	754.6	0.589	0.068	-10.350	1.190	1.000
73.0	754.6	-4.998	-0.575	-12.345	1.420	1.336
91.4	754.6	0.362	0.042	-7.038	0.809	1.023
109.8	754.6	3.014	0.347	-0.530	0.061	1.417
17.8	736.2	-3.311	-0.381	-8.219	0.945	1.363
36.2	736.2	-0.710	-0.082	-7.405	0.852	1.231
54.6	736.2	-0.221	-0.025	-8.077	0.929	1.000
73.0	736.2	-1.117	-0.128	-11.874	1.366	1.239
91.4	736.2	1.575	0.181	-8.222	0.946	1.062
109.8	736.2	3.109	0.357	-4.678	0.538	1.097
17.8	717.8	1.688	0.194	-2.455	0.282	1.000
36.2	717.8	0.383	0.044	-7.651	0.880	1.125
54.6	717.8	1.011	0.116	-11.452	1.317	1.000
73.0	717.8	0.470	0.054	-9.408	1.082	1.351
91.4	717.8	2.886	0.332	-9.905	1.139	1.188
109.8	717.8	2.629	0.302	-7.541	0.867	1.010
17.8	699.4	0.256	0.029	-9.851	1.133	1.000
36.2	699.4	-0.815	-0.094	-7.640	0.879	1.100
54.6	699.4	-4.975	-0.572	-6.020	0.692	1.318
73.0	699.4	-1.385	-0.159	-4.919	0.566	1.000
91.4	699.4	0.416	0.048	-8.776	1.009	1.010

image 96 d200h13

location		velocity	velocity	velocity	velocity	noise
x	y	x	x	y	y	
pixel	pixel	pixel/peri	m/s	pixel/peri	m/s	snr
17.8	791.4	0.189	0.022	-10.400	1.196	1.000
36.2	791.4	-0.184	-0.021	-10.748	1.236	1.125
54.6	791.4	-1.165	-0.134	-12.065	1.387	1.000
73.0	791.4	3.862	0.444	-12.915	1.485	1.091
91.4	791.4	2.991	0.344	-12.273	1.411	1.048
109.8	791.4	2.013	0.231	-9.410	1.082	1.176
128.2	791.4	1.704	0.196	-7.765	0.893	1.000
17.8	773.0	0.796	0.092	-10.233	1.177	1.017
36.2	773.0	0.282	0.032	-10.014	1.152	1.019
54.6	773.0	-0.078	-0.009	-11.472	1.319	1.184
73.0	773.0	-1.335	-0.154	-14.030	1.613	1.000
91.4	773.0	4.011	0.461	-12.146	1.397	1.016
109.8	773.0	3.514	0.404	-9.571	1.101	1.085
128.2	773.0	-2.671	-0.307	-9.789	1.126	1.048
146.6	773.0	4.278	0.492	-4.633	0.533	1.092
17.8	754.6	2.104	0.242	-11.863	1.364	1.000
36.2	754.6	0.520	0.060	-6.685	0.769	1.000
54.6	754.6	0.283	0.033	-9.781	1.125	1.058
73.0	754.6	-0.049	-0.006	-11.369	1.307	1.066
91.4	754.6	1.291	0.148	-11.523	1.325	1.531
109.8	754.6	1.878	0.216	-10.318	1.187	1.239
128.2	754.6	1.993	0.229	-9.869	1.135	1.000
146.6	754.6	2.621	0.301	-6.952	0.799	1.000
17.8	736.2	0.311	0.036	-10.025	1.153	1.000
36.2	736.2	1.012	0.116	-9.484	1.091	1.064
54.6	736.2	0.765	0.088	-9.564	1.100	1.088
73.0	736.2	-2.230	-0.256	-9.003	1.035	1.000
91.4	736.2	0.284	0.033	-11.758	1.352	1.000
109.8	736.2	1.630	0.187	-10.081	1.159	1.548
128.2	736.2	2.169	0.249	-9.487	1.091	1.056
146.6	736.2	2.296	0.264	-4.777	0.549	1.000
17.8	717.8	-0.016	-0.002	-7.485	0.861	1.000
36.2	717.8	2.175	0.250	-11.578	1.331	1.000
54.6	717.8	3.004	0.345	-10.581	1.217	1.000
73.0	717.8	8.373	0.963	-10.045	1.155	1.391
91.4	717.8	2.856	0.328	-10.461	1.203	1.119
109.8	717.8	2.030	0.233	-8.852	1.018	1.000
128.2	717.8	1.404	0.161	-8.831	1.016	1.096
17.8	699.4	0.167	0.019	-9.856	1.133	1.000
36.2	699.4	-0.168	-0.019	-12.204	1.403	1.000
54.6	699.4	2.719	0.313	-11.828	1.360	1.290
73.0	699.4	3.090	0.355	-13.587	1.562	1.407
91.4	699.4	1.960	0.225	-10.943	1.258	1.408
109.8	699.4	-2.898	-0.333	-10.085	1.160	1.085

Velocity Data location		200 Downstand velocity			Vertical Velocities						
x	y	h03	h06	m/s	h08	h09	h10	h11	h13		
mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean	
17.8	791.4	1.062	1.404	0.691	0.000	1.523	1.240	1.070	1.196	1.023	
36.2	791.4	0.601	1.200	0.981	0.000	1.255	1.221	1.246	1.236	0.967	
54.6	791.4	0.901	0.000	0.921	0.000	1.368	1.158	1.191	1.387	0.866	
73.0	791.4	0.000	0.000	0.000	0.000	0.000	1.267	0.965	1.485	0.465	
91.4	791.4	0.000	0.000	0.000	0.000	0.000	0.895	0.676	1.411	0.373	
109.8	791.4	0.000	0.000	0.000	0.000	0.000	1.058	0.000	1.082	0.267	
128.2	791.4	0.000	0.000	0.000	0.000	0.000	0.662	0.000	0.893	0.194	

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	773.0	0.974	1.591	0.677	1.259	0.927	1.283	0.950	1.177	1.105
36.2	773.0	0.873	1.414	1.271	1.169	1.144	1.227	1.432	1.152	1.210
54.6	773.0	0.890	1.229	1.420	0.000	1.282	1.329	1.218	1.319	1.086
73.0	773.0	0.000	0.000	0.797	0.000	0.000	1.716	1.010	1.613	0.642
91.4	773.0	0.000	0.000	0.000	0.000	0.000	1.279	0.569	1.397	0.406
109.8	773.0	0.000	0.000	0.000	0.000	0.000	1.336	0.440	1.101	0.360
128.2	773.0	0.000	0.000	0.000	0.000	0.000	0.622	0.000	1.126	0.218
146.6	773.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.533	0.067

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	754.6	1.121	1.601	1.387	1.168	1.412	1.471	0.691	1.364	1.277
36.2	754.6	1.006	1.530	1.316	0.735	1.231	1.144	1.069	0.769	1.100
54.6	754.6	1.033	1.048	1.234	0.940	1.370	1.228	1.190	1.125	1.146
73.0	754.6	0.000	1.441	0.921	0.000	0.000	1.372	1.420	1.307	0.808
91.4	754.6	0.000	0.000	0.572	0.000	0.000	1.342	0.809	1.325	0.506
109.8	754.6	0.000	0.000	0.633	0.000	0.000	1.095	0.061	1.187	0.372
128.2	754.6	0.000	0.000	0.000	0.000	0.000	0.984	0.000	1.135	0.265
146.6	754.6	0.000	0.000	0.000	0.000	0.000	0.324	0.000	0.799	0.140

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	736.2	1.183	1.139	1.338	1.079	1.007	1.289	0.945	1.153	1.142
36.2	736.2	0.996	0.466	1.088	1.021	1.099	1.192	0.852	1.091	0.976
54.6	736.2	0.810	0.993	0.916	0.989	1.244	1.074	0.929	1.100	1.007
73.0	736.2	0.558	0.000	0.549	0.000	0.000	1.183	1.366	1.035	0.586
91.4	736.2	0.000	0.000	0.669	0.000	0.000	1.184	0.946	1.352	0.519
109.8	736.2	0.000	0.000	0.000	0.000	0.000	0.994	0.538	1.159	0.336
128.2	736.2	0.000	0.000	0.000	0.000	0.000	0.714	0.000	1.091	0.226
146.6	736.2	0.000	0.000	0.000	0.000	0.000	0.527	0.000	0.549	0.135

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	717.8	1.150	1.127	0.637	1.297	0.297	1.296	0.282	0.861	0.868
36.2	717.8	0.923	1.090	1.145	1.561	1.288	1.220	0.880	1.331	1.180
54.6	717.8	0.833	1.160	0.920	1.162	1.222	1.093	1.317	1.217	1.115
73.0	717.8	0.000	0.000	0.752	0.711	0.000	1.046	1.082	1.155	0.593
91.4	717.8	0.000	0.000	0.000	0.000	0.000	1.067	1.139	1.203	0.426
109.8	717.8	0.000	0.000	0.000	0.000	0.000	0.847	0.867	1.018	0.342
128.2	717.8	0.000	0.000	0.000	0.000	0.000	0.852	0.000	1.016	0.233
146.6	717.8	0.000	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.025

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	699.4	1.416	1.377	0.581	1.321	1.470	1.351	1.133	1.133	1.223
36.2	699.4	0.932	1.330	1.174	1.414	1.194	1.393	0.879	1.403	1.215
54.6	699.4	0.490	1.714	0.916	1.247	1.210	0.865	0.692	1.360	1.062
73.0	699.4	0.000	0.000	0.624	1.167	1.175	1.067	0.566	1.562	0.770
91.4	699.4	0.000	0.000	0.000	0.000	0.000	1.037	1.009	1.258	0.413
109.8	699.4	0.000	0.000	0.000	0.000	0.000	0.734	0.000	1.160	0.237
128.2	699.4	0.000	0.000	0.000	0.000	0.000	0.389	0.000	0.000	0.049

Velocity Data		200 Downstand				Horizontal Velocities				
location		velocity		m/s						
x	y	h03	h06	h07	h08	h09	h10	h11	h13	
mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	791.4	0.031	0.014	0.052	0.000	0.048	0.008	-0.006	0.022	0.021
36.2	791.4	-0.197	0.107	0.266	0.000	0.017	-0.308	0.042	-0.021	-0.012
54.6	791.4	0.045	0.000	0.265	0.000	0.065	-0.795	0.173	-0.134	-0.048
73.0	791.4	0.000	0.000	0.000	0.000	0.000	-0.204	0.304	0.444	0.068
91.4	791.4	0.000	0.000	0.000	0.000	0.000	0.003	0.313	0.344	0.082
109.8	791.4	0.000	0.000	0.000	0.000	0.000	0.221	0.000	0.231	0.057
128.2	791.4	0.000	0.000	0.000	0.000	0.000	0.223	0.000	0.196	0.052

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	773.0	-0.036	-0.086	0.174	0.029	0.136	-0.075	-0.032	0.092	0.025
36.2	773.0	-0.078	0.034	0.348	-0.249	0.565	-0.171	0.019	0.032	0.063
54.6	773.0	-0.065	0.126	0.666	0.000	0.349	-0.310	0.091	-0.009	0.106
73.0	773.0	0.000	0.000	0.831	0.000	0.000	-0.056	0.524	-0.154	0.143
91.4	773.0	0.000	0.000	0.000	0.000	0.000	0.439	0.288	0.461	0.149
109.8	773.0	0.000	0.000	0.000	0.000	0.000	-0.059	0.285	0.404	0.079
128.2	773.0	0.000	0.000	0.000	0.000	0.000	0.470	0.000	-0.307	0.020
146.6	773.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.492	0.061

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	754.6	-0.002	-0.076	0.055	-0.006	-0.011	0.032	0.049	0.242	0.035
36.2	754.6	-0.048	0.032	0.209	-0.435	0.308	-0.060	-0.012	0.060	0.007
54.6	754.6	-0.113	0.259	0.093	0.116	0.580	-0.186	0.068	0.033	0.106
73.0	754.6	0.000	-0.109	-0.004	0.000	0.000	-0.002	-0.575	-0.006	-0.087
91.4	754.6	0.000	0.000	-0.141	0.000	0.000	0.180	0.042	0.148	0.029
109.8	754.6	0.000	0.000	-0.075	0.000	0.000	-0.250	0.347	0.216	0.030
128.2	754.6	0.000	0.000	0.000	0.000	0.000	-1.122	0.000	0.229	-0.112
146.6	754.6	0.000	0.000	0.000	0.000	0.000	0.356	0.000	0.301	0.082

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	736.2	0.029	0.203	0.056	0.009	-0.005	-0.095	-0.381	0.036	-0.018
36.2	736.2	0.000	0.538	0.086	-0.075	0.064	-0.180	-0.082	0.116	0.059
54.6	736.2	-0.017	0.275	-0.030	-0.028	0.272	-0.316	-0.025	0.088	0.027
73.0	736.2	-0.104	0.000	-0.224	0.000	0.000	-0.139	-0.128	-0.256	-0.107
91.4	736.2	0.000	0.000	-0.092	0.000	0.000	0.021	0.181	0.033	0.018
109.8	736.2	0.000	0.000	0.000	0.000	0.000	-0.324	0.357	0.187	0.028
128.2	736.2	0.000	0.000	0.000	0.000	0.000	-0.398	0.000	0.249	-0.019
146.6	736.2	0.000	0.000	0.000	0.000	0.000	-0.257	0.000	0.264	0.001

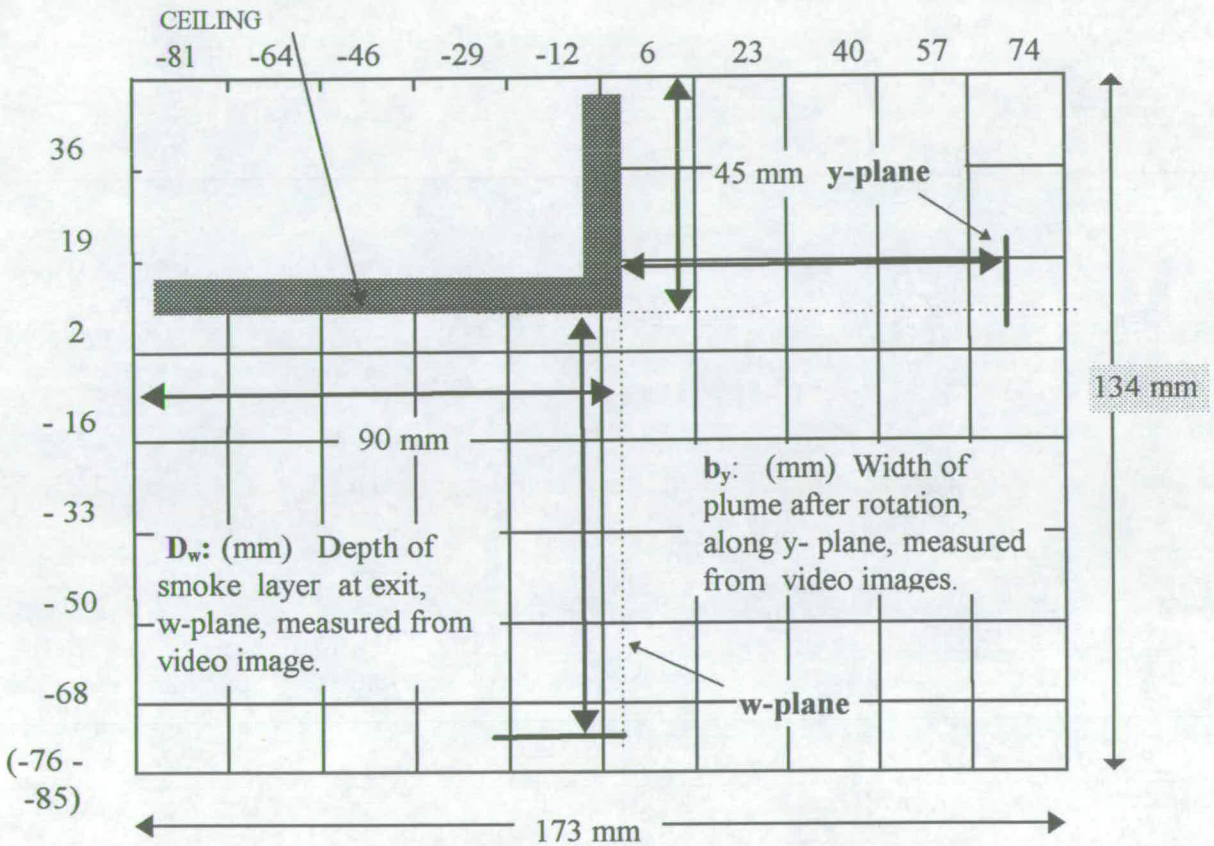
mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	717.8	0.037	0.231	-0.116	0.045	-0.043	-0.129	0.194	-0.002	0.027
36.2	717.8	0.110	0.335	0.319	0.100	-0.013	-0.255	0.044	0.250	0.111
54.6	717.8	0.092	0.295	0.077	0.098	0.108	-0.400	0.116	0.345	0.091
73.0	717.8	0.000	0.000	-0.066	0.025	0.000	-0.294	0.054	0.963	0.085
91.4	717.8	0.000	0.000	0.000	0.000	0.000	-0.030	0.332	0.328	0.079
109.8	717.8	0.000	0.000	0.000	0.000	0.000	-0.150	0.302	0.233	0.048
128.2	717.8	0.000	0.000	0.000	0.000	0.000	-0.113	0.000	0.161	0.006
146.6	717.8	0.000	0.000	0.000	0.000	0.000	-0.416	0.000	0.000	-0.052

mm	mm	im89	im90	im91	im92	im93	im94	im95	im96	mean
17.8	699.4	-0.007	0.061	-0.121	-0.003	-0.012	0.006	0.029	0.019	-0.003
36.2	699.4	0.175	0.216	0.401	0.236	-0.062	-0.147	-0.094	-0.019	0.088
54.6	699.4	0.480	0.175	0.150	0.196	0.148	-0.764	-0.572	0.313	0.016
73.0	699.4	0.000	0.000	-0.008	0.299	0.452	-0.348	-0.159	0.355	0.074
91.4	699.4	0.000	0.000	0.000	0.000	0.000	-0.189	0.048	0.225	0.011
109.8	699.4	0.000	0.000	0.000	0.000	0.000	-0.163	0.000	-0.333	-0.062
128.2	699.4	0.000	0.000	0.000	0.000	0.000	-0.234	0.000	0.000	-0.029

# IMAGES 97 TO 105:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

2460 mm long compartment; No downstand;  
no balcony; 4.61 kw heat source



### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 97 - 105

Interrogation areas 17.3 mm x 17.3 mm.

SCALE: 1 PIXEL = 0.540 MM

Note: No separate images used for y-plane. (Images 106 to 112 not used).

File references: Ld0w01, Ld0w02, Ld0w03, Ld0w04, Ld0w05, Ld0w06, Ld0w07, Ld0w08, Ld0w09

Im 118 Ld0h07

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
15.7	790.2	0.837	0.093	-10.320	1.152	1.045
33.5	790.2	-0.023	-0.003	-9.314	1.039	1.000
51.4	790.2	-0.045	-0.005	-10.563	1.179	1.000
69.2	790.2	0.121	0.013	-7.025	0.784	1.000
87.1	790.2	-1.851	-0.207	-5.904	0.659	1.000
15.7	772.4	1.465	0.164	-11.739	1.310	1.000
33.5	772.4	1.576	0.176	-8.817	0.984	1.000
51.4	772.4	2.443	0.273	-9.349	1.043	1.000
69.2	772.4	2.180	0.243	-9.646	1.077	1.000
87.1	772.4	1.994	0.222	-5.625	0.628	1.000
15.7	754.5	1.041	0.116	-11.866	1.324	1.000
33.5	754.5	0.221	0.025	-10.187	1.137	1.000
51.4	754.5	2.852	0.318	-8.935	0.997	1.383
69.2	754.5	2.366	0.264	-7.820	0.873	1.042
87.1	754.5	2.838	0.317	-6.367	0.711	1.903
15.7	736.6	0.739	0.082	-12.823	1.431	1.000
33.5	736.6	1.238	0.138	-12.443	1.389	1.000
51.4	736.6	1.667	0.186	-9.905	1.105	1.111
69.2	736.6	1.757	0.196	-7.292	0.814	1.000
87.1	736.6	2.342	0.261	-5.611	0.626	1.000
15.7	718.8	0.184	0.021	-14.692	1.640	1.000
33.5	718.8	1.176	0.131	-12.020	1.341	1.000
51.4	718.8	0.700	0.078	-9.292	1.037	1.166
69.2	718.8	0.625	0.070	-6.836	0.763	1.000
87.1	718.8	1.228	0.137	-5.613	0.626	1.000
15.7	700.9	0.022	0.002	-4.754	0.531	1.000
33.5	700.9	-0.156	-0.017	-10.622	1.185	1.000
51.4	700.9	0.210	0.023	-9.311	1.039	1.000
69.2	700.9	0.378	0.042	-7.291	0.814	1.010
87.1	700.9	-0.212	-0.024	-5.586	0.623	1.000

Im 119		Ld0h08		velocity				noise	
location				x	x	y	y		
x	y	x	x					snr	
mm	mm	pix/per	m/s			pix/per	m/s		
15.7	790.2	1.210	0.135	-7.162	0.799	1.000			
33.5	790.2	-0.140	-0.016	-7.232	0.807	1.000			
51.4	790.2	0.572	0.064	-6.341	0.708	1.000			
69.2	790.2	0.113	0.013	-9.196	1.026	1.000			
87.1	790.2	-0.590	-0.066	-8.715	0.973	1.000			
15.7	772.4	1.177	0.131	-4.878	0.544	1.000			
33.5	772.4	-0.589	-0.066	-7.814	0.872	1.000			
51.4	772.4	0.202	0.022	-7.685	0.858	1.067			
69.2	772.4	0.074	0.008	-8.190	0.914	1.000			
87.1	772.4	-0.015	-0.002	-8.965	1.000	1.000			
15.7	754.5	0.830	0.093	-5.056	0.564	1.000			
33.5	754.5	1.543	0.172	-7.799	0.870	1.000			
51.4	754.5	1.539	0.172	-7.924	0.884	1.302			
69.2	754.5	1.813	0.202	-8.897	0.993	1.000			
87.1	754.5	0.485	0.054	-7.996	0.892	1.089			
15.7	736.6	1.062	0.118	-7.160	0.799	1.029			
33.5	736.6	2.095	0.234	-7.183	0.802	1.000			
51.4	736.6	1.657	0.185	-7.283	0.813	1.000			
69.2	736.6	0.084	0.009	-6.337	0.707	1.000			
87.1	736.6	0.013	0.001	-6.764	0.755	1.000			
15.7	718.8	0.449	0.050	-8.438	0.942	1.000			
33.5	718.8	0.149	0.017	-8.364	0.933	1.000			
51.4	718.8	0.269	0.030	-5.930	0.662	1.000			
69.2	718.8	1.124	0.125	-6.145	0.686	1.000			
87.1	718.8	2.300	0.257	-5.016	0.560	1.000			
15.7	700.9	-0.058	-0.006	-4.852	0.541	1.000			
33.5	700.9	-0.181	-0.020	-7.763	0.866	1.000			
51.4	700.9	0.288	0.032	-6.985	0.780	1.079			
69.2	700.9	1.041	0.116	-5.986	0.668	1.034			
87.1	700.9	1.430	0.160	-5.742	0.641	1.210			

**Velocity Data for Images 113 -119**

**No image 120**

**Vertical Velocities**

location		m/s							
x	y	L0h01	L0h02	L0h03	L0h04	L0h06	L0h07	L0h08	
mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	790.2	0.675	1.078	1.040	0.662	1.154	1.152	0.799	0.937
33.5	790.2	0.689	1.028	0.727	0.652	0.802	1.039	0.807	0.821
51.4	790.2	0.865	0.786	0.629	0.562	0.000	1.179	0.708	0.675
69.2	790.2	1.134	0.698	0.000	0.523	0.000	0.784	1.026	0.595
87.1	790.2	0.917	0.629	0.000	0.348	0.000	0.659	0.973	0.504

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	772.4	0.671	1.031	0.791	0.675	1.035	1.310	0.544	0.865
33.5	772.4	0.681	0.916	0.600	0.566	0.481	0.984	0.872	0.728
51.4	772.4	0.887	0.871	0.458	0.595	0.453	1.043	0.858	0.738
69.2	772.4	0.948	0.658	0.000	0.488	0.000	1.077	0.914	0.584
87.1	772.4	1.028	0.642	0.000	0.432	0.000	0.628	1.000	0.533

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	754.5	0.824	0.920	0.902	0.656	1.175	1.324	0.564	0.909
33.5	754.5	0.573	0.861	0.471	0.573	0.957	1.137	0.870	0.777
51.4	754.5	0.783	0.745	0.512	0.502	0.449	0.997	0.884	0.696
69.2	754.5	0.871	0.628	0.000	0.454	0.000	0.873	0.993	0.546
87.1	754.5	1.243	0.573	0.000	0.410	0.000	0.711	0.892	0.547

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	736.6	0.662	0.931	0.986	0.816	1.032	1.431	0.799	0.951
33.5	736.6	0.650	0.733	0.507	0.814	0.935	1.389	0.802	0.833
51.4	736.6	0.725	0.653	0.570	0.653	0.997	1.105	0.813	0.788
69.2	736.6	1.008	0.565	0.510	0.441	0.817	0.814	0.707	0.695
87.1	736.6	0.935	0.476	0.000	0.214	0.000	0.626	0.755	0.429

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	718.8	0.550	1.076	0.888	1.122	1.025	1.640	0.942	1.035
33.5	718.8	0.661	1.152	0.679	0.925	1.023	1.341	0.933	0.959
51.4	718.8	0.936	0.808	0.688	0.560	0.991	1.037	0.662	0.812
69.2	718.8	1.376	0.547	0.549	0.454	0.899	0.763	0.686	0.753
87.1	718.8	1.171	0.416	0.517	0.179	0.000	0.626	0.560	0.496

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	700.9	0.000	0.521	0.527	0.528	0.524	0.531	0.541	0.453
33.5	700.9	0.635	0.710	0.720	0.672	0.834	1.185	0.866	0.803
51.4	700.9	0.953	0.767	0.616	0.466	1.098	1.039	0.780	0.817
69.2	700.9	1.384	0.581	0.585	0.352	0.759	0.814	0.668	0.735
87.1	700.9	1.260	0.403	0.000	0.304	0.000	0.623	0.641	0.461

**Velocity Data for Images 113 -119**

**No image 120**

**Horizontal Velocities**

location		m/s							
x	y	L0h01	L0h02	L0h03	L0h04	L0h06	L0h07	L0h08	
mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	790.2	0.134	0.139	-0.055	0.002	-0.042	0.093	0.135	0.058
33.5	790.2	0.125	0.151	-0.016	-0.053	-0.071	-0.003	-0.016	0.017
51.4	790.2	0.142	0.198	0.207	-0.013	0.000	-0.005	0.064	0.085
69.2	790.2	0.020	0.179	0.000	-0.035	0.000	0.013	0.013	0.027
87.1	790.2	0.228	0.235	0.000	-0.061	0.000	-0.207	-0.066	0.019

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	772.4	0.183	0.064	-0.065	-0.033	-0.093	0.164	0.131	0.050
33.5	772.4	0.208	0.022	-0.096	-0.089	-0.091	0.176	-0.066	0.009
51.4	772.4	0.190	-0.002	-0.409	-0.052	-0.041	0.273	0.022	-0.003
69.2	772.4	0.139	0.119	0.000	0.103	0.000	0.243	0.008	0.088
87.1	772.4	0.144	0.146	0.000	0.028	0.000	0.222	-0.002	0.077

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	754.5	0.156	0.118	-0.097	0.010	0.001	0.116	0.093	0.057
33.5	754.5	0.153	-0.027	0.007	-0.103	-0.161	0.025	0.172	0.009
51.4	754.5	0.106	-0.015	-0.148	0.054	0.546	0.318	0.172	0.147
69.2	754.5	0.116	0.019	0.000	0.061	0.000	0.264	0.202	0.095
87.1	754.5	0.130	0.030	0.000	0.055	0.000	0.317	0.054	0.084

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	736.6	0.149	0.015	-0.106	0.204	0.033	0.082	0.118	0.071
33.5	736.6	0.188	0.016	-0.094	0.289	0.089	0.138	0.234	0.123
51.4	736.6	0.111	-0.092	-0.088	0.204	0.146	0.186	0.185	0.093
69.2	736.6	0.163	-0.002	-0.256	0.087	0.271	0.196	0.009	0.067
87.1	736.6	0.263	-0.011	0.000	0.130	0.000	0.261	0.001	0.092

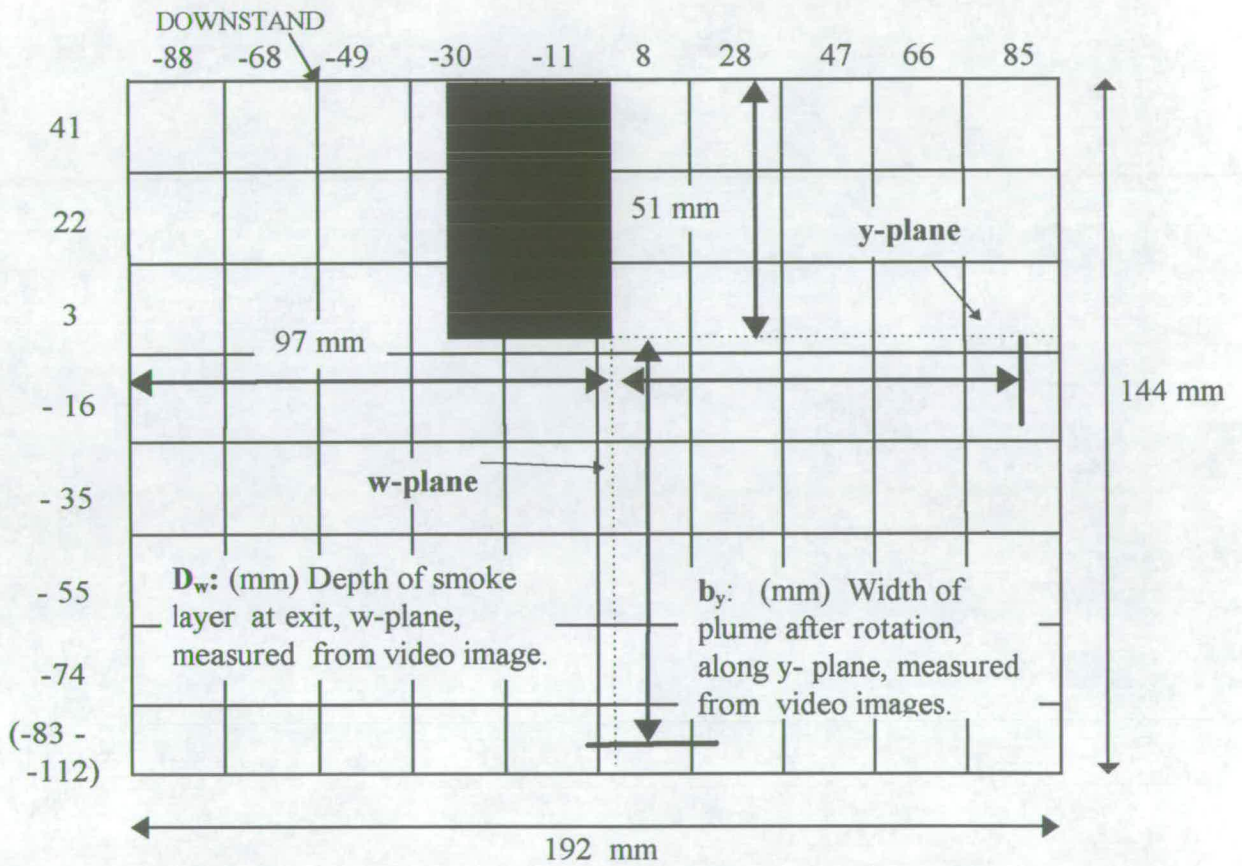
mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	718.8	0.103	-0.068	0.008	0.106	0.067	0.021	0.050	0.041
33.5	718.8	0.146	0.006	-0.019	0.110	0.092	0.131	0.017	0.069
51.4	718.8	0.128	-0.038	0.016	-0.115	0.091	0.078	0.030	0.027
69.2	718.8	0.114	-0.027	0.118	-0.035	0.098	0.070	0.125	0.066
87.1	718.8	0.172	-0.021	-0.625	-0.312	0.000	0.137	0.257	-0.056

mm	mm	lm113	lm114	lm115	lm116	lm117	lm118	lm119	mean
15.7	700.9	0.000	0.008	0.008	0.023	-0.005	0.002	-0.006	0.004
33.5	700.9	0.184	-0.017	-0.055	0.010	0.329	-0.017	-0.020	0.059
51.4	700.9	0.128	-0.053	-0.097	-0.131	-0.145	0.023	0.032	-0.035
69.2	700.9	0.120	-0.074	-0.093	-0.103	0.017	0.042	0.116	0.004
87.1	700.9	0.146	-0.181	0.000	-0.159	0.000	-0.024	0.160	-0.008

# IMAGES 121 TO 128:

## FLOW FROM FIRE COMPARTMENT (W-PLANE)

2460 mm long compartment; 200 mm downstand;  
no balcony; 4.61 kw heat source



### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 121 - 128

Interrogation areas 19.2 mm x 19.2 mm.

SCALE: 1 PIXEL = 0.600 MM

File references: Ld200e01, Ld200e02, Ld200e03, Ld200e04, Ld200e05, Ld200e06, Ld200e07, Ld200e08

Im 121		ld2w01					noise	
location		location		velocity				
x	y	x	x	y	y		snr	
mm	mm	pix/per	m/s	pix/per	m/s			
8.4	22.2	4.768	0.572	-4.151	0.498		1.010	
27.6	22.2	4.040	0.485	-5.235	0.628		1.032	
46.8	22.2	2.594	0.311	-6.716	0.806		1.282	
66.0	22.2	2.116	0.254	-5.855	0.703		1.000	
8.4	3.0	5.480	0.658	-2.703	0.324		1.049	
27.6	3.0	5.051	0.606	-4.910	0.589		1.359	
46.8	3.0	3.382	0.406	-5.652	0.678		1.547	
66.0	3.0	1.873	0.225	-3.739	0.449		1.000	
-30.0	-16.2	4.116	0.494	-2.162	0.259		1.158	
-10.8	-16.2	6.125	0.735	-0.815	0.098		1.891	
8.4	-16.2	6.136	0.736	-1.831	0.220		1.375	
27.6	-16.2	4.719	0.566	-3.514	0.422		1.057	
46.8	-16.2	2.869	0.344	-3.130	0.376		1.561	
66.0	-16.2	2.473	0.297	-2.672	0.321		1.000	
-30.0	-35.4	3.994	0.479	-1.313	0.158		1.011	
-10.8	-35.4	3.911	0.469	-0.702	0.084		1.383	
8.4	-35.4	4.186	0.502	-1.588	0.191		1.086	
27.6	-35.4	3.625	0.435	-2.590	0.311		1.527	
46.8	-35.4	2.392	0.287	-2.497	0.300		1.356	
66.0	-35.4	2.535	0.304	-2.730	0.328		1.256	
-30.0	-54.6	2.463	0.296	0.051	-0.006		2.153	
-10.8	-54.6	3.313	0.398	-0.555	0.067		1.445	
8.4	-54.6	5.493	0.659	-1.110	0.133		1.570	
27.6	-54.6	2.655	0.319	-0.780	0.094		1.000	
46.8	-54.6	2.867	0.344	-1.840	0.221		1.075	
-30.0	-73.8	3.013	0.362	-0.096	0.011		1.000	

Im 122		ld2w02					noise	
location		location		velocity				
x	y	x	x	y	y			
mm	mm	pix/per	m/s	pix/per	m/s	snr		
27.6	22.2	2.231	0.268	-5.672	0.681	1.076		
46.8	22.2	0.804	0.096	-6.435	0.772	1.000		
66.0	22.2	0.909	0.109	-4.334	0.520	1.000		
27.6	3.0	3.641	0.437	-5.710	0.685	1.646		
46.8	3.0	2.231	0.268	-4.804	0.576	1.000		
66.0	3.0	1.182	0.142	-2.586	0.310	1.000		
-30.0	-16.2	4.385	0.526	-0.829	0.099	1.424		
-10.8	-16.2	4.396	0.528	-0.833	0.100	1.017		
8.4	-16.2	5.990	0.719	-1.894	0.227	1.014		
27.6	-16.2	3.676	0.441	-3.883	0.466	1.505		
46.8	-16.2	2.603	0.312	-3.569	0.428	1.471		
66.0	-16.2	2.181	0.262	-2.608	0.313	1.000		
-30.0	-35.4	3.142	0.377	-0.081	0.010	1.833		
-10.8	-35.4	3.709	0.445	-1.194	0.143	1.197		
8.4	-35.4	3.601	0.432	-2.134	0.256	1.827		
27.6	-35.4	3.209	0.385	-2.694	0.323	1.352		
46.8	-35.4	4.702	0.564	-1.481	0.178	1.000		
66.0	-35.4	2.962	0.355	-2.300	0.276	1.000		
-30.0	-54.6	6.305	0.757	-0.317	0.038	1.012		
-10.8	-54.6	4.196	0.504	-0.813	0.098	1.499		
8.4	-54.6	2.807	0.337	-1.647	0.198	1.359		
27.6	-54.6	1.724	0.207	-2.107	0.253	1.336		
46.8	-54.6	1.675	0.201	-2.111	0.253	1.118		
-30.0	-73.8	4.515	0.542	-0.533	0.064	1.103		
-10.8	-73.8	3.295	0.395	-0.670	0.080	1.000		
8.4	-73.8	2.707	0.325	-0.671	0.080	1.000		

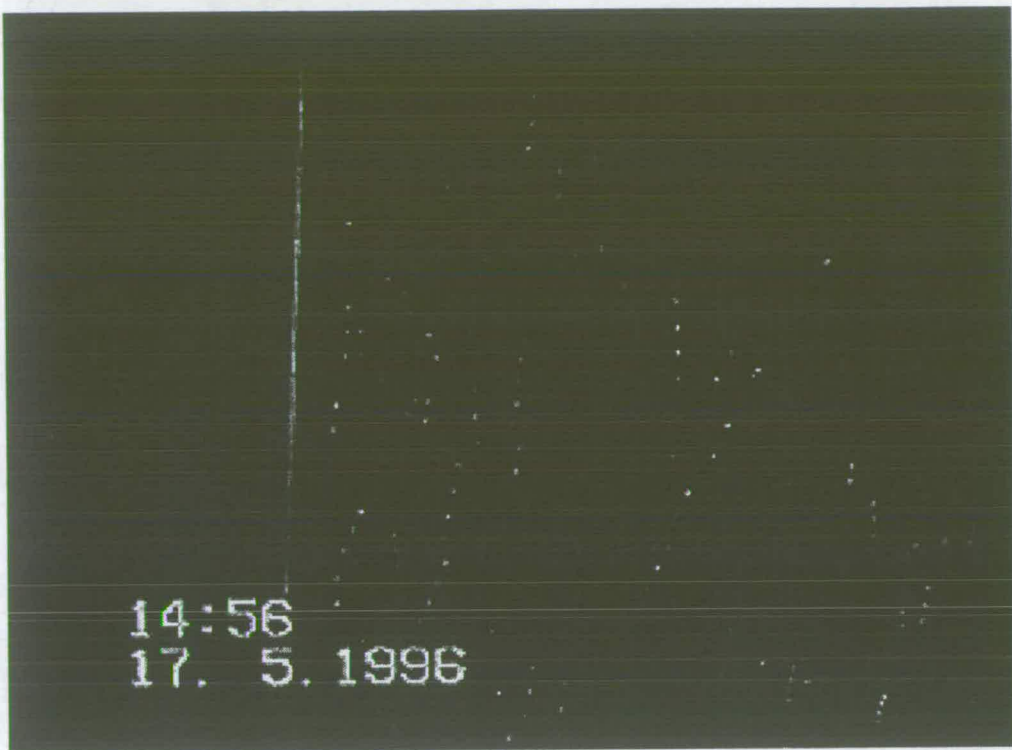
Im 123		ld2w03					noise
location		location		velocity			
x	y	x	x	y	y		
mm	mm	pix/per	m/s	pix/per	m/s	snr	
8.4	22.2	3.906	0.469	-5.277	0.633	1.000	
27.6	22.2	3.071	0.369	-7.061	0.847	1.386	
46.8	22.2	2.291	0.275	-6.163	0.740	1.000	
66.0	22.2	1.512	0.181	-4.436	0.532	1.000	
8.4	3.0	4.522	0.543	-3.674	0.441	1.092	
27.6	3.0	4.551	0.546	-5.620	0.674	1.104	
46.8	3.0	2.746	0.330	-3.664	0.440	1.332	
66.0	3.0	2.075	0.249	-3.712	0.445	1.000	
-30.0	-16.2	3.826	0.459	-2.437	0.292	1.149	
-10.8	-16.2	4.958	0.595	-0.368	0.044	1.388	
8.4	-16.2	5.062	0.607	-1.959	0.235	1.144	
27.6	-16.2	4.237	0.508	-3.801	0.456	1.619	
46.8	-16.2	2.489	0.299	-3.057	0.367	1.569	
66.0	-16.2	2.404	0.289	-3.782	0.454	1.062	
-30.0	-35.4	2.577	0.309	0.253	-0.030	1.495	
-10.8	-35.4	3.791	0.455	-1.350	0.162	1.343	
8.4	-35.4	3.657	0.439	-1.778	0.213	1.410	
27.6	-35.4	2.835	0.340	-2.531	0.304	1.320	
46.8	-35.4	2.900	0.348	-5.516	0.662	1.000	
-30.0	-54.6	2.787	0.334	-0.090	0.011	1.778	
-10.8	-54.6	2.832	0.340	-0.749	0.090	1.485	
8.4	-54.6	1.806	0.217	-1.163	0.140	1.554	
27.6	-54.6	3.261	0.391	-2.038	0.245	1.187	
-30.0	-73.8	2.715	0.326	-0.478	0.057	1.168	
-10.8	-73.8	2.688	0.323	-0.789	0.095	1.075	

Im 124		Id2w04		velocity			noise
location	location	x	x	y	y		
x	y	pix/per	m/s	pix/per	m/s		snr
mm	mm						
8.4	22.2	4.013	0.482	-9.796	1.175		1.073
27.6	22.2	3.568	0.428	-7.861	0.943		1.715
46.8	22.2	3.507	0.421	-6.286	0.754		1.000
66.0	22.2	1.371	0.164	-2.462	0.295		1.000
8.4	3.0	4.157	0.499	-6.251	0.750		1.202
27.6	3.0	4.126	0.495	-5.817	0.698		1.441
46.8	3.0	2.250	0.270	-4.736	0.568		1.000
66.0	3.0	1.968	0.236	-3.352	0.402		1.000
-30.0	-16.2	4.170	0.500	-2.037	0.244		1.090
-10.8	-16.2	5.551	0.666	-0.297	0.036		1.168
8.4	-16.2	4.003	0.480	-2.721	0.326		1.058
27.6	-16.2	3.755	0.451	-4.068	0.488		1.228
46.8	-16.2	2.225	0.267	-3.112	0.373		1.000
66.0	-16.2	2.601	0.312	-3.264	0.392		1.000
-30.0	-35.4	4.594	0.551	0.220	-0.026		1.063
-10.8	-35.4	4.323	0.519	-1.062	0.127		1.302
8.4	-35.4	3.306	0.397	-3.183	0.382		1.065
27.6	-35.4	2.501	0.300	-2.391	0.287		1.457
46.8	-35.4	1.265	0.152	-3.331	0.400		1.000
66.0	-35.4	4.345	0.521	-2.657	0.319		1.146
-30.0	-54.6	5.345	0.641	-0.447	0.054		1.000
-10.8	-54.6	4.317	0.518	-0.928	0.111		1.274
8.4	-54.6	2.508	0.301	-0.509	0.061		1.000
27.6	-54.6	2.193	0.263	-1.816	0.218		1.260
46.8	-54.6	2.932	0.352	-2.874	0.345		1.053
66.0	-54.6	3.440	0.413	-2.632	0.316		1.118
-30.0	-73.8	7.532	0.904	-0.287	0.034		1.074
-10.8	-73.8	5.432	0.652	-0.626	0.075		1.502
8.4	-73.8	5.875	0.705	-0.654	0.079		1.000
27.6	-73.8	3.964	0.476	-1.995	0.239		1.240
46.8	-73.8	4.909	0.589	-3.781	0.454		1.092
66.0	-73.8	3.972	0.477	-3.065	0.368		1.413

Im 125		ld2w05		velocity			noise	
location	location	x	x	y	y		snr	
x	y	pix/per	m/s	pix/per	m/s			
mm	mm							
8.4	22.2	4.222	0.507	-6.085	0.730		1.280	
27.6	22.2	1.921	0.231	-6.108	0.733		1.000	
46.8	22.2	2.650	0.318	-6.122	0.735		1.851	
66.0	22.2	0.755	0.091	-4.068	0.488		1.000	
8.4	3.0	4.266	0.512	-4.647	0.558		1.381	
27.6	3.0	4.323	0.519	-5.676	0.681		1.070	
46.8	3.0	2.379	0.286	-5.138	0.617		1.286	
66.0	3.0	0.828	0.099	-3.212	0.385		1.000	
-30.0	-16.2	4.537	0.544	-1.815	0.218		1.103	
-10.8	-16.2	5.182	0.622	-0.978	0.117		1.151	
8.4	-16.2	4.877	0.585	-3.145	0.377		1.705	
27.6	-16.2	3.071	0.368	-3.219	0.386		1.576	
46.8	-16.2	2.125	0.255	-3.708	0.445		1.000	
66.0	-16.2	1.876	0.225	-3.609	0.433		1.166	
-30.0	-35.4	2.795	0.335	0.888	-0.107		1.561	
-10.8	-35.4	2.889	0.347	-0.721	0.086		1.043	
8.4	-35.4	3.746	0.450	-1.614	0.194		2.358	
27.6	-35.4	2.841	0.341	-2.041	0.245		1.412	
46.8	-35.4	3.552	0.426	-2.618	0.314		1.000	
66.0	-35.4	2.728	0.327	-3.090	0.371		1.006	
-30.0	-54.6	3.085	0.370	-0.566	0.068		1.185	
-10.8	-54.6	2.418	0.290	-1.864	0.224		1.176	
8.4	-54.6	6.710	0.805	-2.594	0.311		1.086	
27.6	-54.6	4.692	0.563	-1.887	0.226		1.108	
46.8	-54.6	3.987	0.478	-2.328	0.279		1.000	
66.0	-54.6	3.491	0.419	-2.682	0.322		1.045	
-30.0	-73.8	3.782	0.454	-1.130	0.136		1.107	
-10.8	-73.8	5.023	0.603	-1.511	0.181		1.372	
8.4	-73.8	5.144	0.617	-2.136	0.256		1.054	
27.6	-73.8	5.088	0.611	-2.531	0.304		1.032	
46.8	-73.8	4.543	0.545	-2.337	0.280		1.058	
66.0	-73.8	4.001	0.480	-2.510	0.301		1.000	

Im 126		ld2w06					noise
location		location		velocity			
x	y	x	x	y	y		
mm	mm	pix/per	m/s	pix/per	m/s	snr	
8.4	22.2	2.765	0.332	-5.219	0.626	1.019	
27.6	22.2	1.869	0.224	-7.144	0.857	1.000	
46.8	22.2	0.344	0.041	-5.208	0.625	1.000	
66.0	22.2	1.132	0.136	-5.204	0.624	1.018	
8.4	3.0	3.703	0.444	-3.736	0.448	1.599	
27.6	3.0	2.773	0.333	-4.922	0.591	1.239	
46.8	3.0	2.052	0.246	-4.890	0.587	1.175	
66.0	3.0	1.908	0.229	-4.852	0.582	1.033	
-30.0	-16.2	4.154	0.498	-0.465	0.056	1.315	
-10.8	-16.2	6.159	0.739	0.791	-0.095	1.150	
8.4	-16.2	4.846	0.582	-2.922	0.351	1.488	
27.6	-16.2	2.590	0.311	-4.003	0.480	1.200	
46.8	-16.2	2.883	0.346	-3.943	0.473	1.000	
66.0	-16.2	2.771	0.333	-4.152	0.498	1.404	
-30.0	-35.4	2.434	0.292	-0.851	0.102	1.375	
-10.8	-35.4	3.438	0.413	-1.258	0.151	1.098	
8.4	-35.4	3.366	0.404	-2.743	0.329	1.618	
27.6	-35.4	3.841	0.461	-2.748	0.330	1.000	
46.8	-35.4	3.291	0.395	-3.791	0.455	1.113	
66.0	-35.4	3.249	0.390	-3.869	0.464	1.000	
-30.0	-54.6	2.760	0.331	-0.883	0.106	1.070	
-10.8	-54.6	2.715	0.326	-0.760	0.091	1.798	
8.4	-54.6	2.790	0.335	-1.756	0.211	1.140	
27.6	-54.6	3.646	0.438	-5.943	0.713	1.096	
46.8	-54.6	3.462	0.415	-4.296	0.516	1.000	
66.0	-54.6	3.435	0.412	-4.186	0.502	2.576	
-30.0	-73.8	2.831	0.340	-0.803	0.096	1.058	
-10.8	-73.8	2.920	0.350	-0.589	0.071	1.000	
8.4	-73.8	2.973	0.357	-1.876	0.225	1.149	
27.6	-73.8	3.233	0.388	-3.338	0.401	1.013	
46.8	-73.8	3.374	0.405	-4.062	0.487	1.065	
66.0	-73.8	3.394	0.407	-4.142	0.497	1.000	

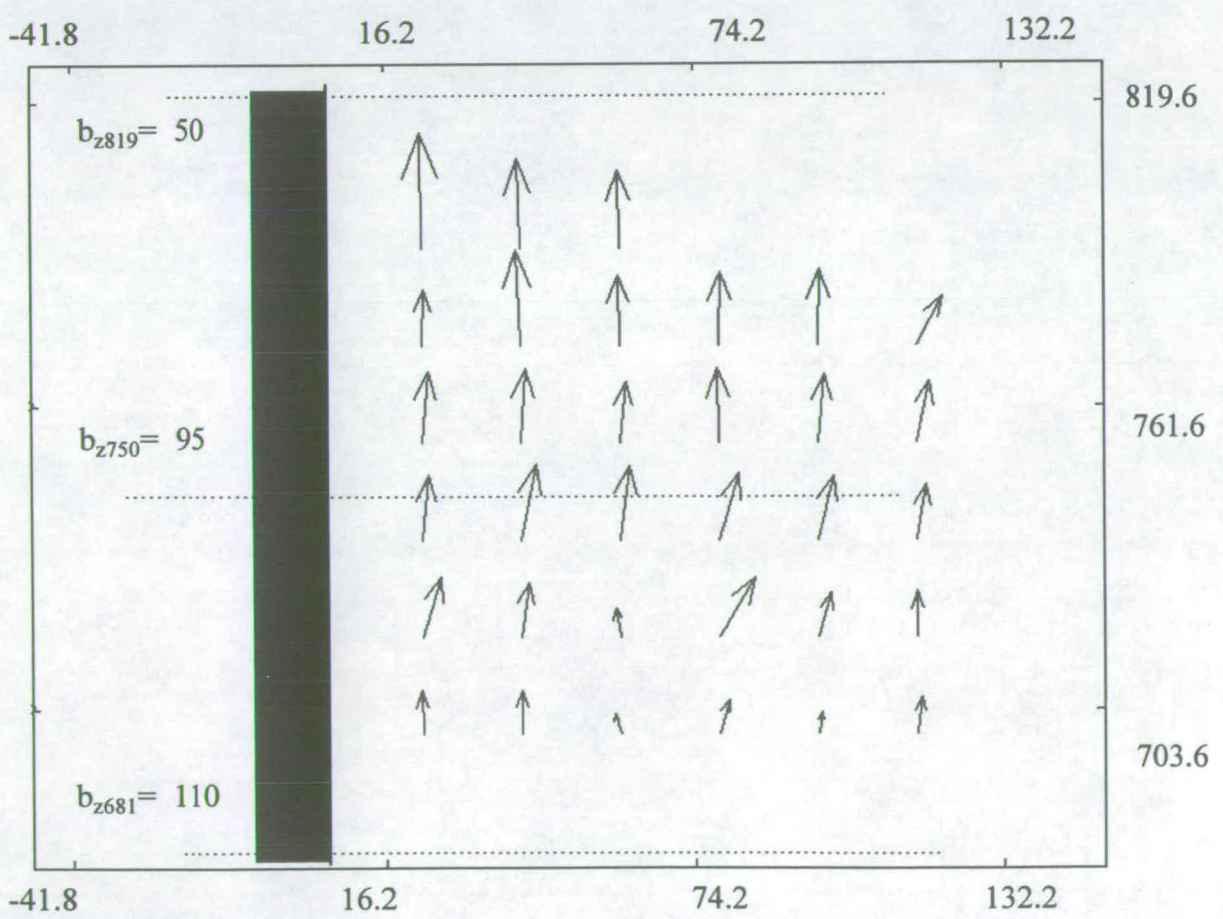
Im 127		ld2w07		velocity			noise
location	location	x	x	y	y		
x	y	pix/per	m/s	pix/per	m/s		snr
mm	mm						
8.4	22.2	0.008	0.001	-5.475	0.657		1.000
27.6	22.2	2.898	0.348	-6.854	0.823		1.026
46.8	22.2	1.832	0.220	-6.733	0.808		1.000
66.0	22.2	0.660	0.079	-4.723	0.567		1.000
8.4	3.0	2.824	0.339	-4.973	0.597		1.292
27.6	3.0	4.176	0.501	-5.744	0.689		1.356
46.8	3.0	1.930	0.232	-4.369	0.524		1.000
66.0	3.0	0.102	0.012	-2.985	0.358		1.000
-10.8	-16.2	5.052	0.606	-1.038	0.125		2.202
8.4	-16.2	3.985	0.478	-2.853	0.342		1.005
27.6	-16.2	3.872	0.465	-4.113	0.494		1.386
46.8	-16.2	1.686	0.202	-3.641	0.437		1.000
66.0	-16.2	1.198	0.144	-3.594	0.431		1.106
-10.8	-35.4	4.177	0.501	-1.929	0.231		1.087
8.4	-35.4	3.433	0.412	-2.267	0.272		1.543
27.6	-35.4	2.877	0.345	-2.576	0.309		1.000
46.8	-35.4	2.994	0.359	-3.247	0.390		1.000
-10.8	-54.6	4.190	0.503	-2.197	0.264		1.000
8.4	-54.6	4.212	0.505	-2.528	0.303		1.051
27.6	-54.6	5.706	0.685	-2.665	0.320		1.044
46.8	-54.6	3.943	0.473	-2.906	0.349		1.000
-30.0	-73.8	4.314	0.518	-2.331	0.280		1.056
-10.8	-73.8	4.362	0.523	-2.379	0.285		1.166
8.4	-73.8	4.511	0.541	-2.532	0.304		1.045



135 MM

186 MM

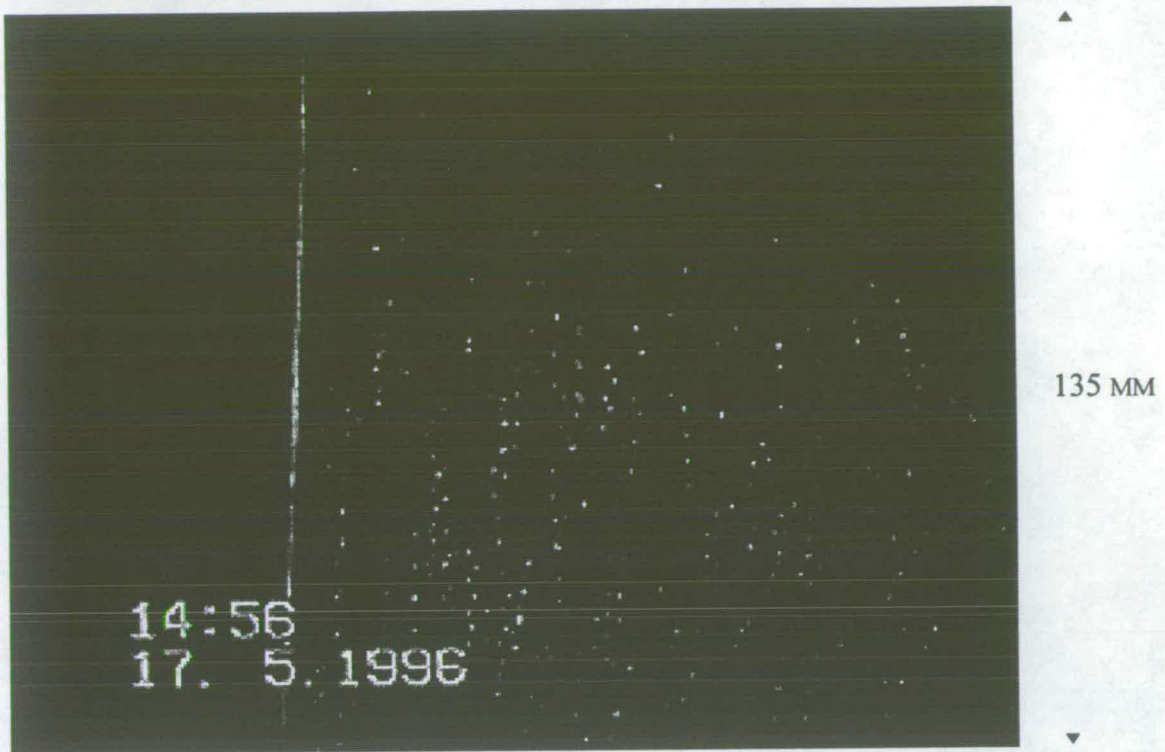
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 141

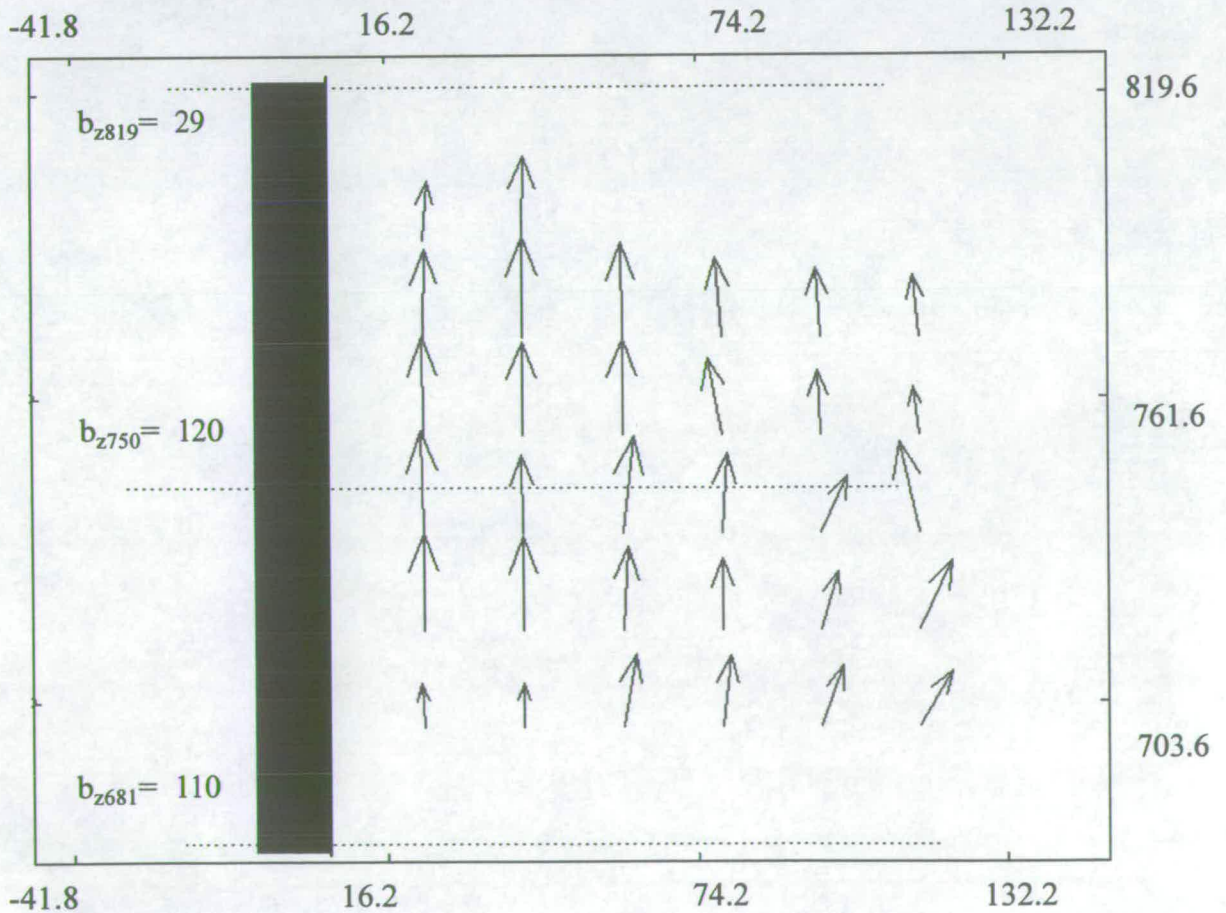
(REF.: LD2H07)



186 MM

135 MM

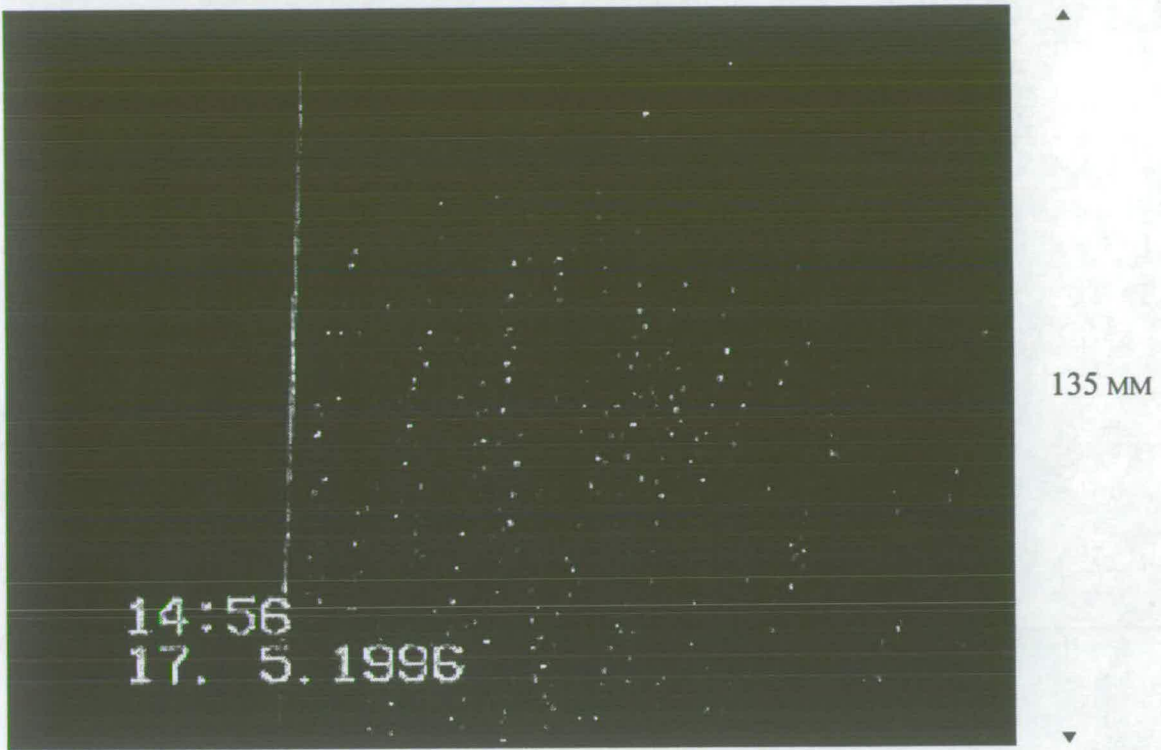
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 142

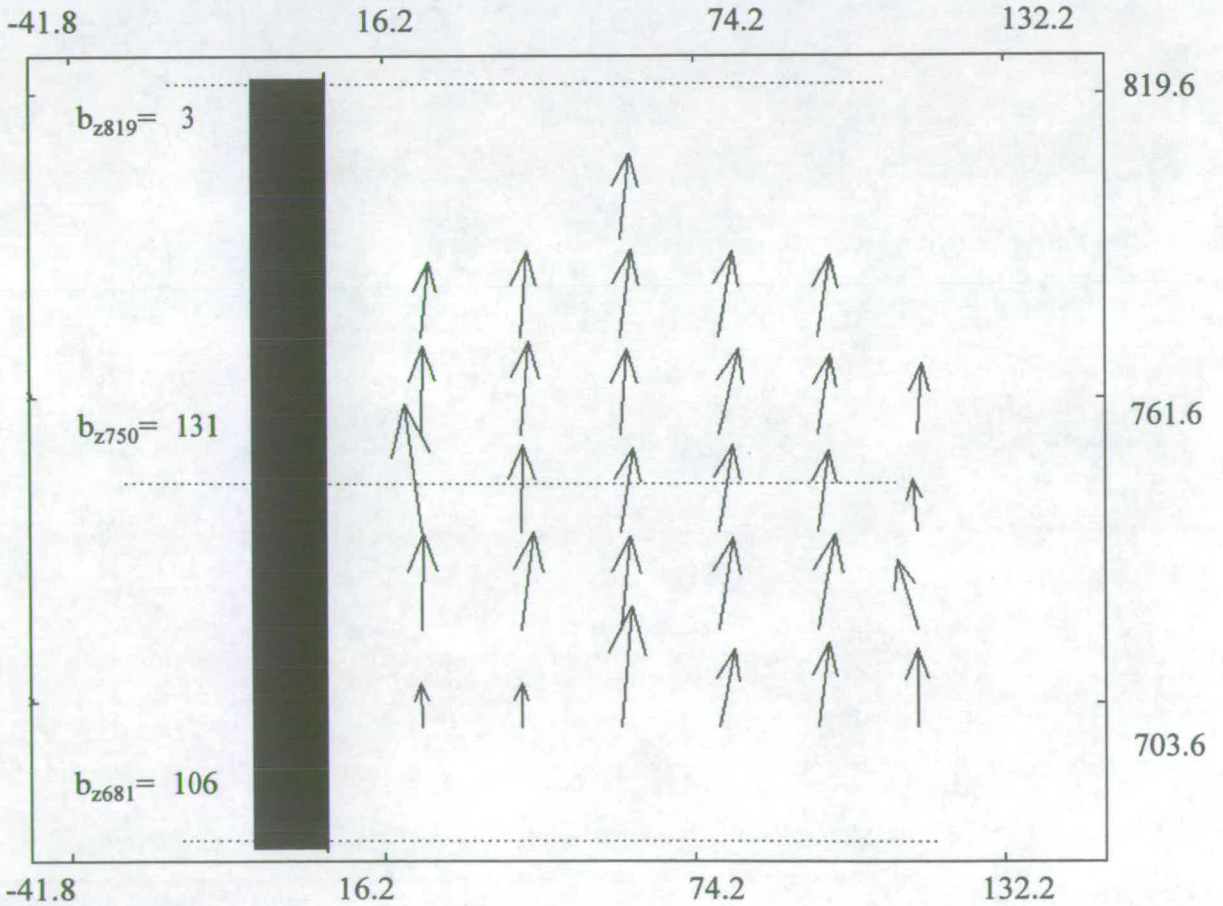
(REF.: LD2H08)



135 MM

186 MM

ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 143

(REF.: LD2H09)

Im 137 Ly2h01

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
14.0	772.6	0.490	0.057	-9.082	1.053	1.000	
32.5	772.6	0.474	0.055	-8.476	0.983	1.108	
51.1	772.6	0.364	0.042	-7.431	0.862	1.021	
69.6	772.6	0.177	0.021	-6.415	0.744	1.129	
14.0	754.0	0.467	0.054	-9.771	1.133	1.039	
32.5	754.0	0.692	0.080	-8.642	1.002	1.108	
51.1	754.0	-0.029	-0.003	-7.686	0.892	1.000	
69.6	754.0	0.234	0.027	-6.450	0.748	1.000	
88.2	754.0	0.176	0.020	-5.080	0.589	1.075	
14.0	735.5	0.244	0.028	-11.531	1.338	1.000	
32.5	735.5	0.789	0.091	-9.151	1.061	1.003	
51.1	735.5	2.747	0.319	-6.277	0.728	1.071	
69.6	735.5	0.103	0.012	-4.975	0.577	1.000	
88.2	735.5	0.057	0.007	-3.476	0.403	1.000	
14.0	716.9	-0.091	-0.011	-9.202	1.067	1.000	
32.5	716.9	0.117	0.014	-10.261	1.190	1.000	
51.1	716.9	0.232	0.027	-7.108	0.825	1.000	
69.6	716.9	0.388	0.045	-5.136	0.596	1.055	
88.2	716.9	1.065	0.124	-4.538	0.526	1.051	
14.0	698.4	-0.073	-0.008	-4.775	0.554	1.000	
32.5	698.4	0.011	0.001	-4.728	0.548	1.000	
51.1	698.4	2.164	0.251	-6.335	0.735	1.000	
69.6	698.4	0.198	0.023	-3.524	0.409	1.000	
88.2	698.4	3.550	0.412	-5.253	0.609	1.000	

Im 138		Ly2h02		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
14.0	772.6	0.323	0.037	-8.068	0.936	1.000	
32.5	772.6	0.550	0.064	-6.501	0.754	1.123	
51.1	772.6	1.316	0.153	-4.015	0.466	1.000	
14.0	754.0	0.006	0.001	-8.696	1.009	1.000	
32.5	754.0	0.333	0.039	-6.406	0.743	1.000	
51.1	754.0	0.158	0.018	-6.152	0.714	1.000	
69.6	754.0	0.137	0.016	-6.621	0.768	1.132	
88.2	754.0	0.858	0.100	-6.791	0.788	1.007	
106.8	754.0	1.720	0.199	-6.967	0.808	1.074	
14.0	735.5	-0.157	-0.018	-3.826	0.444	1.000	
32.5	735.5	-0.079	-0.009	-6.908	0.801	1.000	
51.1	735.5	-1.156	-0.134	-7.145	0.829	1.000	
69.6	735.5	0.351	0.041	-7.434	0.862	1.000	
88.2	735.5	1.606	0.186	-6.905	0.801	1.353	
106.8	735.5	2.508	0.291	-7.087	0.822	1.000	
14.0	716.9	-0.089	-0.010	-7.804	0.905	1.000	
32.5	716.9	-1.365	-0.158	-6.666	0.773	1.000	
51.1	716.9	-1.526	-0.177	-7.561	0.877	1.000	
69.6	716.9	-1.279	-0.148	-7.551	0.876	1.000	
88.2	716.9	3.000	0.348	-5.764	0.669	1.008	
106.8	716.9	4.209	0.488	-7.928	0.920	1.760	
14.0	698.4	-0.081	-0.009	-4.703	0.545	1.000	
32.5	698.4	0.111	0.013	-4.726	0.548	1.000	
51.1	698.4	-0.233	-0.027	-8.158	0.946	1.000	
69.6	698.4	0.059	0.007	-8.106	0.940	1.000	
88.2	698.4	1.477	0.171	-6.042	0.701	1.000	

Im 139 Ly2h03

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
14.0	791.2	-0.408	-0.047	-11.604	1.346	1.000	
32.5	791.2	-0.277	-0.032	-11.371	1.319	1.215	
88.2	791.2	-0.684	-0.079	-4.435	0.514	1.000	
106.8	791.2	0.143	0.017	-4.809	0.558	1.000	
14.0	772.6	-0.645	-0.075	-11.098	1.287	1.000	
32.5	772.6	-0.079	-0.009	-11.287	1.309	1.300	
69.6	772.6	-0.080	-0.009	-5.602	0.650	1.014	
88.2	772.6	-0.128	-0.015	-4.594	0.533	1.040	
106.8	772.6	-0.032	-0.004	-4.309	0.500	1.013	
14.0	754.0	-1.661	-0.193	-11.016	1.278	1.000	
32.5	754.0	1.276	0.148	-11.380	1.320	1.000	
51.1	754.0	0.542	0.063	-10.969	1.272	1.178	
88.2	754.0	0.218	0.025	-4.045	0.469	1.000	
106.8	754.0	-0.026	-0.003	-3.695	0.429	1.111	
14.0	735.5	0.174	0.020	-12.043	1.397	1.000	
32.5	735.5	0.266	0.031	-11.840	1.373	1.000	
51.1	735.5	0.383	0.044	-11.160	1.295	1.000	
88.2	735.5	0.087	0.010	-2.859	0.332	1.000	
106.8	735.5	-0.560	-0.065	-3.082	0.358	1.000	
14.0	716.9	-0.579	-0.067	-10.744	1.246	1.000	
32.5	716.9	-0.085	-0.010	-11.680	1.355	1.000	
51.1	716.9	0.017	0.002	-10.218	1.185	1.000	
88.2	716.9	-0.919	-0.107	-3.141	0.364	1.000	
106.8	716.9	-1.956	-0.227	-2.231	0.259	1.000	
14.0	698.4	-0.133	-0.015	-4.706	0.546	1.000	
32.5	698.4	0.156	0.018	-4.733	0.549	1.000	
51.1	698.4	0.043	0.005	-7.110	0.825	1.058	
88.2	698.4	-1.296	-0.150	-3.673	0.426	1.043	
106.8	698.4	-1.487	-0.173	-3.395	0.394	1.000	

Im 140		Ly2h04		velocity			noise	
location				x	x	y	y	
x	y	x	x					snr
mm	mm	pix/per	m/s	pix/per	m/s			
32.5	791.2	0.093	0.011	-9.302	1.079			1.000
14.0	772.6	-0.223	-0.026	-9.140	1.060			1.000
32.5	772.6	0.047	0.005	-9.887	1.147			1.000
51.1	772.6	0.057	0.007	-8.133	0.943			1.011
69.6	772.6	1.124	0.130	-6.686	0.776			1.000
88.2	772.6	1.665	0.193	-7.189	0.834			1.059
14.0	754.0	0.900	0.104	-9.224	1.070			1.000
32.5	754.0	1.077	0.125	-8.096	0.939			1.106
51.1	754.0	1.044	0.121	-8.197	0.951			1.000
69.6	754.0	1.168	0.136	-7.376	0.856			1.031
88.2	754.0	1.775	0.206	-7.281	0.845			1.111
106.8	754.0	3.289	0.382	-8.074	0.937			1.236
14.0	735.5	2.783	0.323	-12.243	1.420			1.100
32.5	735.5	2.760	0.320	-5.061	0.587			1.066
51.1	735.5	1.530	0.177	-7.086	0.822			1.050
69.6	735.5	1.664	0.193	-7.040	0.817			1.000
88.2	735.5	1.201	0.139	-6.759	0.784			1.000
106.8	735.5	-0.148	-0.017	-5.473	0.635			1.000
14.0	716.9	1.264	0.147	-8.026	0.931			1.000
32.5	716.9	0.990	0.115	-9.807	1.138			1.000
51.1	716.9	0.888	0.103	-6.858	0.795			1.000
69.6	716.9	0.344	0.040	-7.364	0.854			1.000
88.2	716.9	1.210	0.140	-11.295	1.310			1.000
106.8	716.9	3.574	0.415	-3.229	0.375			1.314
14.0	698.4	-0.101	-0.012	-4.746	0.551			1.000
32.5	698.4	0.042	0.005	-4.767	0.553			1.000
51.1	698.4	0.503	0.058	-3.516	0.408			1.000
69.6	698.4	0.311	0.036	-7.445	0.864			1.000
88.2	698.4	1.586	0.184	-6.752	0.783			1.102
106.8	698.4	2.910	0.338	-2.788	0.323			2.070

Im 141		Ly2h07		velocity			noise	
location								
x	y	x	x	y	y			
mm	mm	pix/per	m/s	pix/per	m/s		snr	
14.0	791.2	-0.041	-0.005	-12.520	1.452		1.000	
32.5	791.2	-0.218	-0.025	-9.727	1.128		1.088	
51.1	791.2	-0.058	-0.007	-8.469	0.982		1.046	
14.0	772.6	0.262	0.030	-6.089	0.706		1.000	
32.5	772.6	-0.434	-0.050	-10.425	1.209		1.000	
51.1	772.6	-0.131	-0.015	-7.560	0.877		1.177	
69.6	772.6	0.256	0.030	-7.931	0.920		1.071	
88.2	772.6	0.178	0.021	-8.177	0.949		1.000	
106.8	772.6	2.856	0.331	-5.209	0.604		1.544	
14.0	754.0	0.669	0.078	-7.674	0.890		1.000	
32.5	754.0	0.574	0.067	-8.157	0.946		1.000	
51.1	754.0	0.667	0.077	-6.558	0.761		1.000	
69.6	754.0	-0.033	-0.004	-8.038	0.932		1.000	
88.2	754.0	0.831	0.096	-7.494	0.869		1.043	
106.8	754.0	1.499	0.174	-6.622	0.768		1.085	
14.0	735.5	0.768	0.089	-7.026	0.815		1.000	
32.5	735.5	1.703	0.198	-8.234	0.955		1.000	
51.1	735.5	1.104	0.128	-8.066	0.936		1.000	
69.6	735.5	2.333	0.271	-7.262	0.842		1.000	
88.2	735.5	1.671	0.194	-6.857	0.795		1.078	
106.8	735.5	1.059	0.123	-5.907	0.685		1.000	
14.0	716.9	2.152	0.250	-6.642	0.770		1.000	
32.5	716.9	0.889	0.103	-5.897	0.684		1.021	
51.1	716.9	-0.476	-0.055	-3.053	0.354		1.000	
69.6	716.9	3.877	0.450	-6.340	0.735		1.408	
88.2	716.9	1.480	0.172	-4.773	0.554		1.026	
106.8	716.9	0.119	0.014	-4.855	0.563		1.000	
14.0	698.4	-0.089	-0.010	-4.672	0.542		1.000	
32.5	698.4	0.082	0.010	-4.711	0.546		1.000	
51.1	698.4	-0.649	-0.075	-2.141	0.248		1.239	
69.6	698.4	1.028	0.119	-3.658	0.424		1.009	
88.2	698.4	0.335	0.039	-2.269	0.263		1.000	
106.8	698.4	0.511	0.059	-3.879	0.450		1.126	

Im 142 Ly2h08

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
14.0	791.2	0.579	0.067	-6.496	0.754	1.000	
32.5	791.2	0.263	0.030	-9.113	1.057	1.135	
14.0	772.6	0.196	0.023	-9.537	1.106	1.194	
32.5	772.6	0.152	0.018	-10.920	1.267	1.000	
51.1	772.6	-0.063	-0.007	-10.233	1.187	1.227	
69.6	772.6	-0.619	-0.072	-8.630	1.001	1.008	
88.2	772.6	-0.434	-0.050	-7.373	0.855	1.009	
106.8	772.6	-0.557	-0.065	-6.626	0.769	1.238	
14.0	754.0	-0.005	-0.001	-10.722	1.244	1.000	
32.5	754.0	0.012	0.001	-10.116	1.174	1.000	
51.1	754.0	0.087	0.010	-10.415	1.208	1.000	
69.6	754.0	-1.362	-0.158	-8.307	0.964	1.000	
88.2	754.0	-0.229	-0.027	-6.871	0.797	1.000	
106.8	754.0	-0.604	-0.070	-5.084	0.590	1.000	
14.0	735.5	-0.217	-0.025	-11.159	1.294	1.000	
32.5	735.5	-0.045	-0.005	-8.397	0.974	1.000	
51.1	735.5	1.186	0.138	-10.394	1.206	1.000	
69.6	735.5	0.564	0.065	-8.642	1.002	1.000	
88.2	735.5	2.967	0.344	-6.166	0.715	1.000	
106.8	735.5	-2.103	-0.244	-9.708	1.126	1.000	
14.0	716.9	0.051	0.006	-10.630	1.233	1.000	
32.5	716.9	0.061	0.007	-10.241	1.188	1.000	
51.1	716.9	0.646	0.075	-9.022	1.047	1.000	
69.6	716.9	0.027	0.003	-7.695	0.893	1.000	
88.2	716.9	1.901	0.220	-6.330	0.734	1.000	
106.8	716.9	3.662	0.425	-7.338	0.851	1.057	
14.0	698.4	-0.182	-0.021	-4.671	0.542	1.000	
32.5	698.4	0.081	0.009	-4.738	0.550	1.000	
51.1	698.4	1.346	0.156	-7.924	0.919	1.000	
69.6	698.4	0.851	0.099	-7.808	0.906	1.013	
88.2	698.4	2.468	0.286	-6.521	0.756	1.109	
106.8	698.4	3.511	0.407	-5.891	0.683	1.013	

Im 143 Ly2h09

location		velocity				noise
x	y	x	x	y	y	snr
mm	mm	pix/per	m/s	pix/per	m/s	
51.1	791.2	1.149	0.133	-9.254	1.074	1.000
14.0	772.6	0.837	0.097	-8.074	0.937	1.000
32.5	772.6	0.747	0.087	-9.220	1.070	1.001
51.1	772.6	1.170	0.136	-9.338	1.083	1.114
69.6	772.6	1.541	0.179	-9.209	1.068	1.371
88.2	772.6	1.455	0.169	-8.769	1.017	1.021
14.0	754.0	0.266	0.031	-9.621	1.116	1.000
32.5	754.0	0.890	0.103	-10.166	1.179	1.000
51.1	754.0	0.827	0.096	-9.195	1.067	1.000
69.6	754.0	2.273	0.264	-9.294	1.078	1.000
88.2	754.0	1.423	0.165	-8.648	1.003	1.063
106.8	754.0	0.581	0.067	-7.524	0.873	1.147
14.0	735.5	-1.759	-0.204	-13.999	1.624	1.000
32.5	735.5	0.323	0.037	-9.484	1.100	1.000
51.1	735.5	1.383	0.160	-9.130	1.059	1.000
69.6	735.5	1.564	0.181	-9.483	1.100	1.136
88.2	735.5	1.241	0.144	-8.726	1.012	1.000
106.8	735.5	-0.425	-0.049	-5.648	0.655	1.000
14.0	716.9	0.204	0.024	-10.417	1.208	1.000
32.5	716.9	1.431	0.166	-10.517	1.220	1.000
51.1	716.9	1.101	0.128	-10.044	1.165	1.139
69.6	716.9	1.560	0.181	-9.905	1.149	1.126
88.2	716.9	1.995	0.231	-10.285	1.193	1.000
106.8	716.9	-2.037	-0.236	-7.423	0.861	1.000
14.0	698.4	-0.050	-0.006	-4.684	0.543	1.000
32.5	698.4	0.068	0.008	-4.730	0.549	1.000
51.1	698.4	1.279	0.148	-13.050	1.514	1.000
69.6	698.4	1.785	0.207	-8.352	0.969	1.000
88.2	698.4	1.243	0.144	-9.102	1.056	1.210
106.8	698.4	0.097	0.011	-8.463	0.982	1.092

**Velocity Data for Images 137 to 143**

No data for Image 144

200 Downstand

2460 mm Compartment

Vertical Velocities

location		velocity		m/s						
x	y	h01	h02	h03	h04	h07	h08	h09	mean	
mm	mm	im137	im138	im139	im140	im141	im142	im143		
14.0	791.2	0.000	0.000	1.346	0.000	1.452	0.754	0.000	0.507	
32.5	791.2	0.000	0.000	1.319	1.079	1.128	1.057	0.000	0.655	
51.1	791.2	0.000	0.000	0.000	0.000	0.982	0.000	1.074	0.294	
69.6	791.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
88.2	791.2	0.000	0.000	0.514	0.000	0.000	0.000	0.000	0.073	
106.8	791.2	0.000	0.000	0.558	0.000	0.000	0.000	0.000	0.080	

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	772.6	1.053	0.936	1.287	1.060	0.706	1.106	0.937	1.012
32.5	772.6	0.983	0.754	1.309	1.147	1.209	1.267	1.070	1.106
51.1	772.6	0.862	0.466	0.000	0.943	0.877	1.187	1.083	0.774
69.6	772.6	0.744	0.000	0.650	0.776	0.920	1.001	1.068	0.737
88.2	772.6	0.000	0.000	0.533	0.834	0.949	0.855	1.017	0.598
106.8	772.6	0.000	0.000	0.500	0.000	0.604	0.769	0.000	0.268

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	754.0	1.133	1.009	1.278	1.070	0.890	1.244	1.116	1.106
32.5	754.0	1.002	0.743	1.320	0.939	0.946	1.174	1.179	1.043
51.1	754.0	0.892	0.714	1.272	0.951	0.761	1.208	1.067	0.981
69.6	754.0	0.748	0.768	0.000	0.856	0.932	0.964	1.078	0.764
88.2	754.0	0.589	0.788	0.469	0.845	0.869	0.797	1.003	0.766
106.8	754.0	0.000	0.808	0.429	0.937	0.768	0.590	0.873	0.629

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	735.5	1.338	0.444	1.397	1.420	0.815	1.294	1.624	1.190
32.5	735.5	1.061	0.801	1.373	0.587	0.955	0.974	1.100	0.979
51.1	735.5	0.728	0.829	1.295	0.822	0.936	1.206	1.059	0.982
69.6	735.5	0.577	0.862	0.000	0.817	0.842	1.002	1.100	0.743
88.2	735.5	0.403	0.801	0.332	0.784	0.795	0.715	1.012	0.692
106.8	735.5	0.000	0.822	0.358	0.635	0.685	1.126	0.655	0.612

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	716.9	1.067	0.905	1.246	0.931	0.770	1.233	1.208	1.052
32.5	716.9	1.190	0.773	1.355	1.138	0.684	1.188	1.220	1.078
51.1	716.9	0.825	0.877	1.185	0.795	0.354	1.047	1.165	0.893
69.6	716.9	0.596	0.876	0.000	0.854	0.735	0.893	1.149	0.729
88.2	716.9	0.526	0.669	0.364	1.310	0.554	0.734	1.193	0.764
106.8	716.9	0.000	0.920	0.259	0.375	0.563	0.851	0.861	0.547

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	698.4	0.554	0.545	0.546	0.551	0.542	0.542	0.543	0.546
32.5	698.4	0.548	0.548	0.549	0.553	0.546	0.550	0.549	0.549
51.1	698.4	0.735	0.946	0.825	0.408	0.248	0.919	1.514	0.799
69.6	698.4	0.409	0.940	0.000	0.864	0.424	0.906	0.969	0.645
88.2	698.4	0.609	0.701	0.426	0.783	0.263	0.756	1.056	0.656
106.8	698.4	0.000	0.000	0.394	0.323	0.450	0.683	0.982	0.405

### Horizontal Velocities

location		velocity							m/s
x	y	h01	h02	h03	h04	h07	h08	h09	mean
mm	mm	im137	im138	im139	im140	im141	im142	im143	
14.0	791.2	0.000	0.000	-0.047	0.000	-0.005	0.067	0.000	0.002
32.5	791.2	0.000	0.000	-0.032	0.011	-0.025	0.030	0.000	-0.002
51.1	791.2	0.000	0.000	0.000	0.000	-0.007	0.000	0.133	0.018
69.6	791.2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
88.2	791.2	0.000	0.000	-0.079	0.000	0.000	0.000	0.000	-0.011
106.8	791.2	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.002

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	772.6	0.057	0.037	-0.075	-0.026	0.030	0.023	0.097	0.021
32.5	772.6	0.055	0.064	-0.009	0.005	-0.050	0.018	0.087	0.024
51.1	772.6	0.042	0.153	0.000	0.007	-0.015	-0.007	0.136	0.045
69.6	772.6	0.021	0.000	-0.009	0.130	0.030	-0.072	0.179	0.040
88.2	772.6	0.000	0.000	-0.015	0.193	0.021	-0.050	0.169	0.045
106.8	772.6	0.000	0.000	-0.004	0.000	0.331	-0.065	0.000	0.038

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	754.0	0.054	0.001	-0.193	0.104	0.078	-0.001	0.031	0.011
32.5	754.0	0.080	0.039	0.148	0.125	0.067	0.001	0.103	0.080
51.1	754.0	-0.003	0.018	0.063	0.121	0.077	0.010	0.096	0.055
69.6	754.0	0.027	0.016	0.000	0.136	-0.004	-0.158	0.264	0.040
88.2	754.0	0.020	0.100	0.025	0.206	0.096	-0.027	0.165	0.084
106.8	754.0	0.000	0.199	-0.003	0.382	0.174	-0.070	0.067	0.107

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	735.5	0.028	-0.018	0.020	0.323	0.089	-0.025	-0.204	0.030
32.5	735.5	0.091	-0.009	0.031	0.320	0.198	-0.005	0.037	0.095
51.1	735.5	0.319	-0.134	0.044	0.177	0.128	0.138	0.160	0.119
69.6	735.5	0.012	0.041	0.000	0.193	0.271	0.065	0.181	0.109
88.2	735.5	0.007	0.186	0.010	0.139	0.194	0.344	0.144	0.146
106.8	735.5	0.000	0.291	-0.065	-0.017	0.123	-0.244	-0.049	0.005

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	716.9	-0.011	-0.010	-0.067	0.147	0.250	0.006	0.024	0.048
32.5	716.9	0.014	-0.158	-0.010	0.115	0.103	0.007	0.166	0.034
51.1	716.9	0.027	-0.177	0.002	0.103	-0.055	0.075	0.128	0.015
69.6	716.9	0.045	-0.148	0.000	0.040	0.450	0.003	0.181	0.081
88.2	716.9	0.124	0.348	-0.107	0.140	0.172	0.220	0.231	0.161
106.8	716.9	0.000	0.488	-0.227	0.415	0.014	0.425	-0.236	0.125

mm	mm	im137	im138	im139	im140	im141	im142	im143	mean
14.0	698.4	-0.008	-0.009	-0.015	-0.012	-0.010	-0.021	-0.006	-0.012
32.5	698.4	0.001	0.013	0.018	0.005	0.010	0.009	0.008	0.009
51.1	698.4	0.251	-0.027	0.005	0.058	-0.075	0.156	0.148	0.074
69.6	698.4	0.023	0.007	0.000	0.036	0.119	0.099	0.207	0.070
88.2	698.4	0.412	0.171	-0.150	0.184	0.039	0.286	0.144	0.155
106.8	698.4	0.000	0.000	-0.173	0.338	0.059	0.407	0.011	0.092

## Plume Dimensions

**by** was measured from the wall to the point where no more seeding particles are evident. For **Dw** the flow was also examined for the point where reverse flow occurs. For certain images, it was necessary to estimate the depth by extending the streamlines at the edge of the flow, to where they would intercept the w, y or z-plane.

**Figures in italics are estimates.**

D0 im	D0 Dw	by	by	mean	by	by+131	by+681	by+750	by+819	
1	101	140	9	132	~	17	110	199	147	95
2	43	126	10	161	~	18	179	130	162	0
3	38	72	11	103	~	19	165	139	118	58
4	119	108	12	112	~	20	122	235	199	72
5	122	132	13	115	~	21	75	104	151	81
6	111	144	14	119	~	22	118	94	141	53
7	126	110	15	138	~	23	134	133	116	56
8	128	92	16	~	~	24	~	135	143	64
<b>mean</b>	<b>99</b>	<b>116</b>		<b>126</b>	<b>121</b>		<b>129</b>	<b>146</b>	<b>147</b>	<b>60</b>

d50 im	d50 Dw	by	by	mean	by	by+118	by+681	by+750	by+819	
25	156	101	33	82	~	41	117	114	129	108
26	148	108	34	121	~	42	119	118	106	90
27	135	118	35	110	~	43	80	102	86	132
28	107	83	36	117	~	44	122	77	64	109
29	111	59	37	84	~	45	131	0	70	68
30	119	114	38	101	~	46	86	102	147	112
31	121	95	39	79	~	47	120	155	156	140
32	128	77	40	105	~	48	100	117	136	59
<b>mean</b>	<b>128</b>	<b>94</b>		<b>100</b>	<b>97</b>		<b>109</b>	<b>98</b>	<b>112</b>	<b>102</b>

d100 im	d100 Dw	by	by	mean	by	by+106	by+681	by+750	by+819	
49	88	121	57	89	~	65	70	121	127	136
50	81	125	58	91	~	66	0	149	161	132
51	70	116	59	104	~	67	76	58	106	168
52	79	134	60	99	~	68	94	58	35	40
53	107	126	61	108	~	69	104	44	78	61
54	92	51	62	83	~	70	63	110	56	49
55	65	36	63	83	~	71	92	97	50	67
56	75	42	64	95	~	72	116	55	83	119
<b>mean</b>	<b>82</b>	<b>94</b>		<b>94</b>	<b>94</b>		<b>77</b>	<b>87</b>	<b>87</b>	<b>97</b>

d200	d200											
im	Dw	by		by	mean	by	by+82.	by+681	by+750	by+819		
73	77	96	81	87	~	89	72	76	66	23		
74	67	53	82	77	~	90	82	62	35	39		
75	158	56	83	88	~	91	83	101	108	53		
76	104	38	84	87	~	92	73	96	59	29		
77	135	59	85	93	~	93	85	94	89	64		
78	133	52	86	70	~	94	74	122	151	100		
79	94	70	87	81	~	95	79	90	114	75		
80	110	94	88	71	~	96	67	156	162	116		
<b>mean</b>	<b>110</b>	<b>65</b>		<b>82</b>	<b>73</b>		<b>77</b>	<b>100</b>	<b>98</b>	<b>62</b>		

longd0	longd0											
im	Dw	by										
97	91	121	~	~	~	~	113	125	125	125		
98	93	109	~	~	~	~	114	125	125	125		
99	71	83	~	~	~	~	115	100	81	81		
100	104	75	~	~	~	~	116	99	135	102		
101	91	77	~	~	~	~	117	98	65	112		
102	103	77	~	~	~	~	118	120	133	99		
103	80	72	~	~	~	~	119	74	112	142		
104	80	72	~	~	~	~	~	~	~	~		
105	79	70	~	~	~	~	~	~	~	~		
<b>mean</b>	<b>89</b>	<b>86</b>	~	~	~	~	~	<b>106</b>	<b>111</b>	<b>112</b>		

longd200												
im	Dw	by		by	mean	by	by+82.	by+681	by+750	by+819		
121	100	77	129	83	~	137	118	107	90	42		
122	110	103	130	100	~	138	23	106	66	20		
123	96	88	131	89	~	139	70	49	119	35		
124	95	90	132	72	~	140	12	81	114	30		
125	130	86	133	80	~	141	20	110	95	50		
126	106	80	134	93	~	142	65	110	120	29		
127	102	74	135	88	~	143	48	106	131	3		
128	93	90	136	65	~	144	21	~	~	~		
<b>mean</b>	<b>104</b>	<b>86</b>		<b>84</b>	<b>85</b>		<b>47</b>	<b>95</b>	<b>105</b>	<b>30</b>		

**Summary of Plume Dimensions**

	Dw	y+0	y+82	y+90	y+106	y+118	y+131	681	750	819
<b>D0</b>	99	121	~	~	~	~	129	146	147	60
<b>d50</b>	128	97	~	~	~	109	~	98	112	102
<b>d100</b>	82	94	~	~	77	~	~	87	87	97
<b>d200</b>	110	73	77	~	~	~	~	100	98	62
<b>longd0</b>	89	86	~	~	~	~	~	106	111	112
<b>longd2</b>	104	85	~	47	~	~	~	95	105	30

Im 128		ld2w08					noise
location		location		velocity			
x	y	x	x	y	y		
mm	mm	pix/per	m/s	pix/per	m/s	snr	
8.4	22.2	4.682	0.562	-6.320	0.758	1.010	
27.6	22.2	3.006	0.361	-8.044	0.965	1.585	
46.8	22.2	1.554	0.187	-6.623	0.795	1.000	
66.0	22.2	0.551	0.066	-3.888	0.467	1.000	
8.4	3.0	6.257	0.751	-5.129	0.615	1.379	
27.6	3.0	3.534	0.424	-5.038	0.605	1.123	
46.8	3.0	2.421	0.291	-4.809	0.577	1.188	
66.0	3.0	3.147	0.378	-2.035	0.244	1.000	
-30.0	-16.2	4.084	0.490	-1.934	0.232	1.497	
-10.8	-16.2	4.166	0.500	-0.978	0.117	1.295	
8.4	-16.2	12.256	1.471	-6.211	0.745	1.426	
27.6	-16.2	4.100	0.492	-4.097	0.492	1.025	
46.8	-16.2	2.267	0.272	-5.941	0.713	1.007	
66.0	-16.2	2.531	0.304	-4.094	0.491	1.017	
-30.0	-35.4	3.818	0.458	0.002	0.000	1.115	
-10.8	-35.4	3.928	0.471	-0.934	0.112	1.509	
8.4	-35.4	3.987	0.478	-1.984	0.238	1.652	
27.6	-35.4	3.051	0.366	-2.742	0.329	1.399	
46.8	-35.4	2.633	0.316	-4.061	0.487	1.000	
66.0	-35.4	2.709	0.325	-4.199	0.504	1.126	
-30.0	-54.6	3.085	0.370	-0.714	0.086	1.000	
-10.8	-54.6	2.555	0.307	-0.680	0.082	2.184	
8.4	-54.6	2.964	0.356	-1.665	0.200	1.585	
27.6	-54.6	1.405	0.169	-3.248	0.390	1.000	
46.8	-54.6	4.728	0.567	-4.489	0.539	1.000	
66.0	-54.6	2.275	0.273	-3.554	0.426	1.021	
-30.0	-73.8	3.112	0.373	-1.170	0.140	1.000	
-10.8	-73.8	3.222	0.387	-1.791	0.215	1.000	
8.4	-73.8	3.589	0.431	-2.708	0.325	1.015	
27.6	-73.8	5.566	0.668	-4.499	0.540	1.000	
46.8	-73.8	11.570	1.388	-7.231	0.868	1.150	

**Velocity Data for Images 121 to 128**

**Horizontal Velocities**

**Velocity Data for Long Compartmen 200 Downstand**

location		m/s									
x	y	L2w01	L2w02	L2w03	L2w04	L2w05	L2w06	L2w07	L2w08	mean	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
-30.0	-16.2	0.494	0.526	0.459	0.500	0.544	0.498	0.000	0.490	0.439	
-30.0	-35.4	0.479	0.377	0.309	0.551	0.335	0.292	0.000	0.458	0.350	
-30.0	-54.6	0.296	0.757	0.334	0.641	0.370	0.331	0.000	0.370	0.387	
-30.0	-73.8	0.362	0.542	0.326	0.904	0.454	0.340	0.518	0.373	0.477	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
-10.8	-16.2	0.735	0.528	0.595	0.666	0.622	0.739	0.606	0.500	0.624	
-10.8	-35.4	0.469	0.445	0.455	0.519	0.347	0.413	0.501	0.471	0.452	
-10.8	-54.6	0.398	0.504	0.340	0.518	0.290	0.326	0.503	0.307	0.398	
-10.8	-73.8	0.000	0.395	0.323	0.652	0.603	0.350	0.523	0.387	0.404	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
8.4	22.2	0.572	0.000	0.469	0.482	0.507	0.332	0.001	0.562	0.365	
8.4	3.0	0.658	0.000	0.543	0.499	0.512	0.444	0.339	0.751	0.468	
8.4	-16.2	0.736	0.719	0.607	0.480	0.585	0.582	0.478	1.471	0.707	
8.4	-35.4	0.502	0.432	0.439	0.397	0.450	0.404	0.412	0.478	0.439	
8.4	-54.6	0.659	0.337	0.217	0.301	0.805	0.335	0.505	0.356	0.439	
8.4	-73.8	0.000	0.325	0.000	0.705	0.617	0.357	0.541	0.431	0.372	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
27.6	22.2	0.485	0.268	0.369	0.428	0.231	0.224	0.348	0.361	0.339	
27.6	3.0	0.606	0.437	0.546	0.495	0.519	0.333	0.501	0.424	0.483	
27.6	-16.2	0.566	0.441	0.508	0.451	0.368	0.311	0.465	0.492	0.450	
27.6	-35.4	0.435	0.385	0.340	0.300	0.341	0.461	0.345	0.366	0.372	
27.6	-54.6	0.319	0.207	0.391	0.263	0.563	0.438	0.685	0.169	0.379	
27.6	-73.8	0.000	0.000	0.000	0.476	0.611	0.388	0.000	0.668	0.268	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
46.8	22.2	0.311	0.096	0.275	0.421	0.318	0.041	0.220	0.187	0.234	
46.8	3.0	0.406	0.268	0.330	0.270	0.286	0.246	0.232	0.291	0.291	
46.8	-16.2	0.344	0.312	0.299	0.267	0.255	0.346	0.202	0.272	0.287	
46.8	-35.4	0.287	0.564	0.348	0.152	0.426	0.395	0.359	0.316	0.356	
46.8	-54.6	0.344	0.201	0.000	0.352	0.478	0.415	0.473	0.567	0.354	
46.8	-73.8	0.000	0.000	0.000	0.589	0.545	0.405	0.000	1.388	0.366	
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean	
66.0	22.2	0.254	0.109	0.181	0.164	0.091	0.136	0.079	0.066	0.135	
66.0	3.0	0.225	0.142	0.249	0.236	0.099	0.229	0.012	0.378	0.196	
66.0	-16.2	0.297	0.262	0.289	0.312	0.225	0.333	0.144	0.304	0.271	
66.0	-35.4	0.304	0.355	0.000	0.521	0.327	0.390	0.000	0.325	0.278	
66.0	-54.6	0.000	0.000	0.000	0.413	0.419	0.412	0.000	0.273	0.190	
66.0	-73.8	0.000	0.000	0.000	0.477	0.480	0.407	0.000	0.000	0.171	

**Velocity Data for Images 121 to 128**

**Vertical Velocities**

**Velocity Data for Long Compartment 200 Downstand**

location		m/s								
x	y	L2w01	L2w02	L2w03	L2w04	L2w05	L2w06	L2w07	L2w08	mean
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
-30.0	-16.2	0.259	0.099	0.292	0.244	0.218	0.056	0.000	0.232	0.175
-30.0	-35.4	0.158	0.010	-0.030	-0.026	-0.107	0.102	0.000	0.000	0.013
-30.0	-54.6	-0.006	0.038	0.011	0.054	0.068	0.106	0.000	0.086	0.045
-30.0	-73.8	0.011	0.064	0.057	0.034	0.136	0.096	0.280	0.140	0.102

mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
-10.8	-16.2	0.098	0.100	0.044	0.036	0.117	-0.095	0.125	0.117	0.068
-10.8	-35.4	0.084	0.143	0.162	0.127	0.086	0.151	0.231	0.112	0.137
-10.8	-54.6	0.067	0.098	0.090	0.111	0.224	0.091	0.264	0.082	0.128
-10.8	-73.8	0.000	0.080	0.095	0.075	0.181	0.071	0.285	0.215	0.125

mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
8.4	22.2	0.498	0.000	0.633	1.175	0.730	0.626	0.657	0.758	0.635
8.4	3.0	0.324	0.000	0.441	0.750	0.558	0.448	0.597	0.615	0.467
8.4	-16.2	0.220	0.227	0.235	0.326	0.377	0.351	0.342	0.745	0.353
8.4	-35.4	0.191	0.256	0.213	0.382	0.194	0.329	0.272	0.238	0.259
8.4	-54.6	0.133	0.198	0.140	0.061	0.311	0.211	0.303	0.200	0.195
8.4	-73.8	0.000	0.080	0.000	0.079	0.256	0.225	0.304	0.325	0.159

mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
27.6	22.2	0.628	0.681	0.847	0.943	0.733	0.857	0.823	0.965	0.810
27.6	3.0	0.589	0.685	0.674	0.698	0.681	0.591	0.689	0.605	0.652
27.6	-16.2	0.422	0.466	0.456	0.488	0.386	0.480	0.494	0.492	0.460
27.6	-35.4	0.311	0.323	0.304	0.287	0.245	0.330	0.309	0.329	0.305
27.6	-54.6	0.094	0.253	0.245	0.218	0.226	0.713	0.320	0.390	0.307
27.6	-73.8	0.000	0.000	0.000	0.239	0.304	0.401	0.000	0.540	0.185

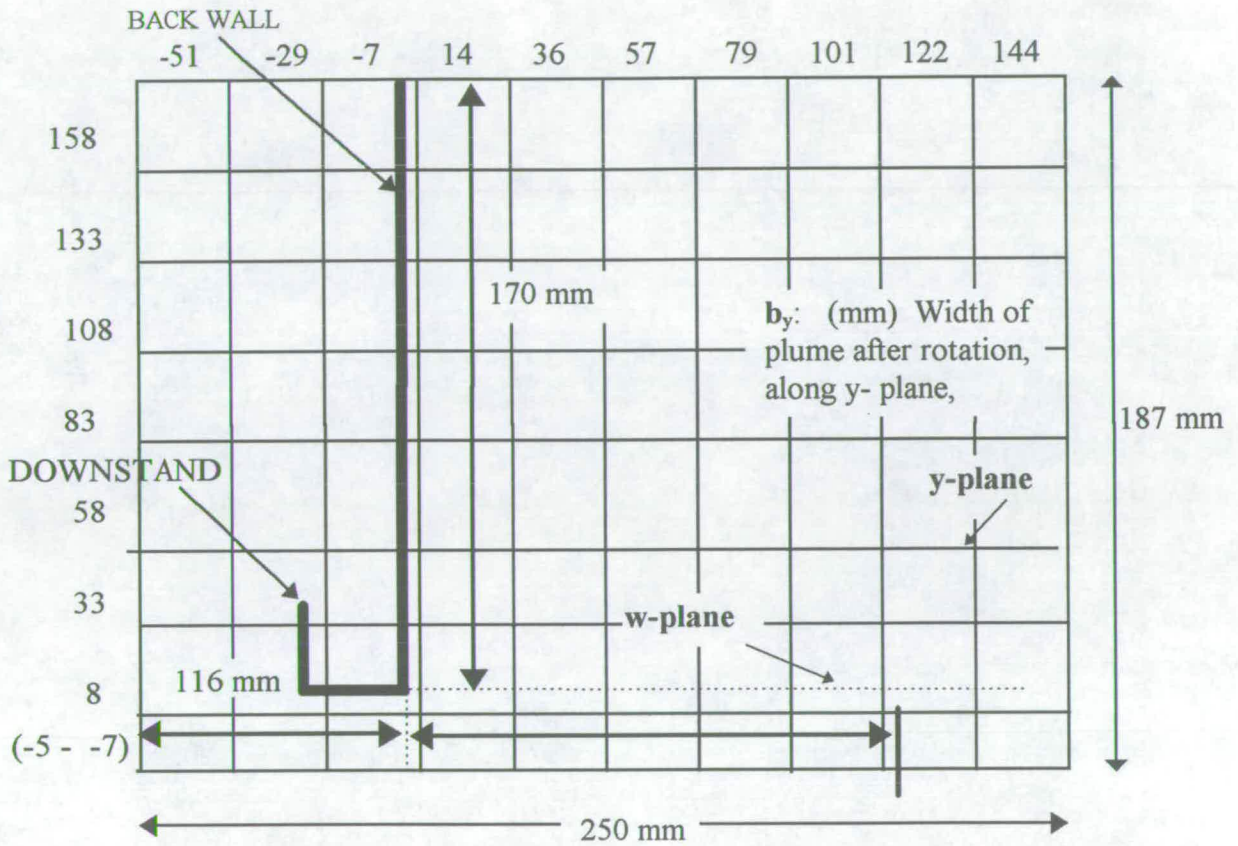
mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
46.8	22.2	0.806	0.772	0.740	0.754	0.735	0.625	0.808	0.795	0.754
46.8	3.0	0.678	0.576	0.440	0.568	0.617	0.587	0.524	0.577	0.571
46.8	-16.2	0.376	0.428	0.367	0.373	0.445	0.473	0.437	0.713	0.452
46.8	-35.4	0.300	0.178	0.662	0.400	0.314	0.455	0.390	0.487	0.398
46.8	-54.6	0.221	0.253	0.000	0.345	0.279	0.516	0.349	0.539	0.313
46.8	-73.8	0.000	0.000	0.000	0.454	0.280	0.487	0.000	0.868	0.261

mm	mm	lm121	lm122	lm123	lm124	lm125	lm126	lm127	lm128	mean
66.0	22.2	0.703	0.520	0.532	0.295	0.488	0.624	0.567	0.467	0.525
66.0	3.0	0.449	0.310	0.445	0.402	0.385	0.582	0.358	0.244	0.397
66.0	-16.2	0.321	0.313	0.454	0.392	0.433	0.498	0.431	0.491	0.417
66.0	-35.4	0.328	0.276	0.000	0.319	0.371	0.464	0.000	0.504	0.283
66.0	-54.6	0.000	0.000	0.000	0.316	0.322	0.502	0.000	0.426	0.196
66.0	-73.8	0.000	0.000	0.000	0.368	0.301	0.497	0.000	0.000	0.146

# IMAGES 129 TO 136:

## FLOW FROM FIRE COMPARTMENT (Y-PLANE)

2460 mm long compartment; 200 mm downstand;  
no balcony; 4.61 kw heat source

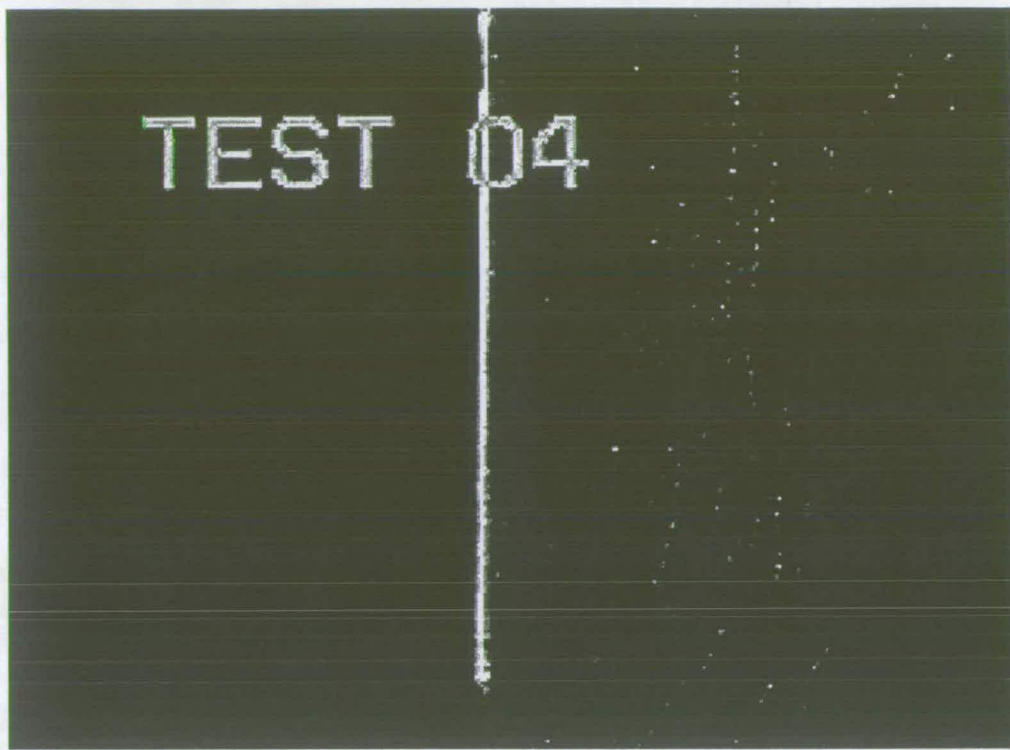


### INTERROGATION AREAS AND LOCATIONS FOR IMAGES 129 - 136

Interrogation areas 25.0 mm x 25.0 mm.

SCALE: 1 PIXEL = 0.781 MM

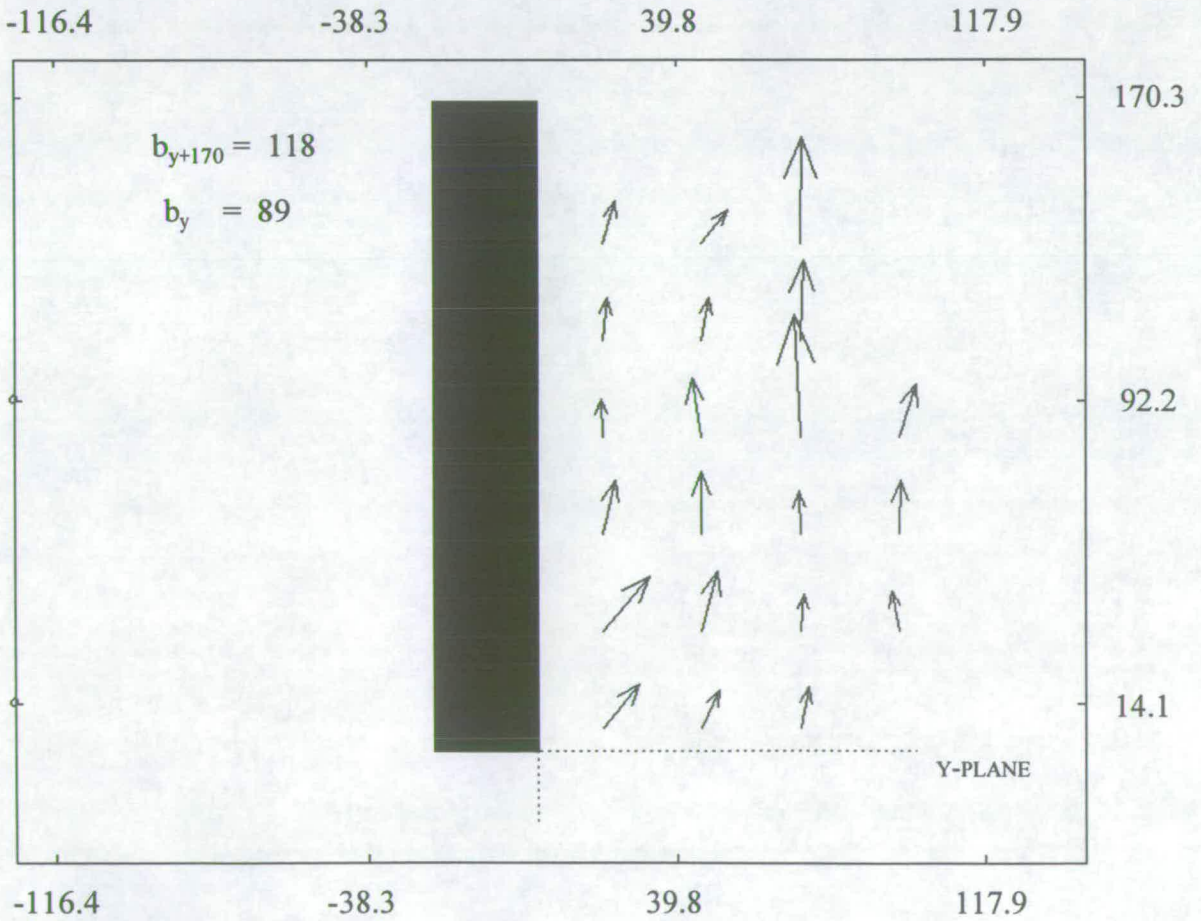
File references: Ld2yq01, Ld2yq02, Ld2yq03, Ld2yq04, Ld2yq05, Ld2yq06, Ld2yq08, Ld2yq10.



162 MM

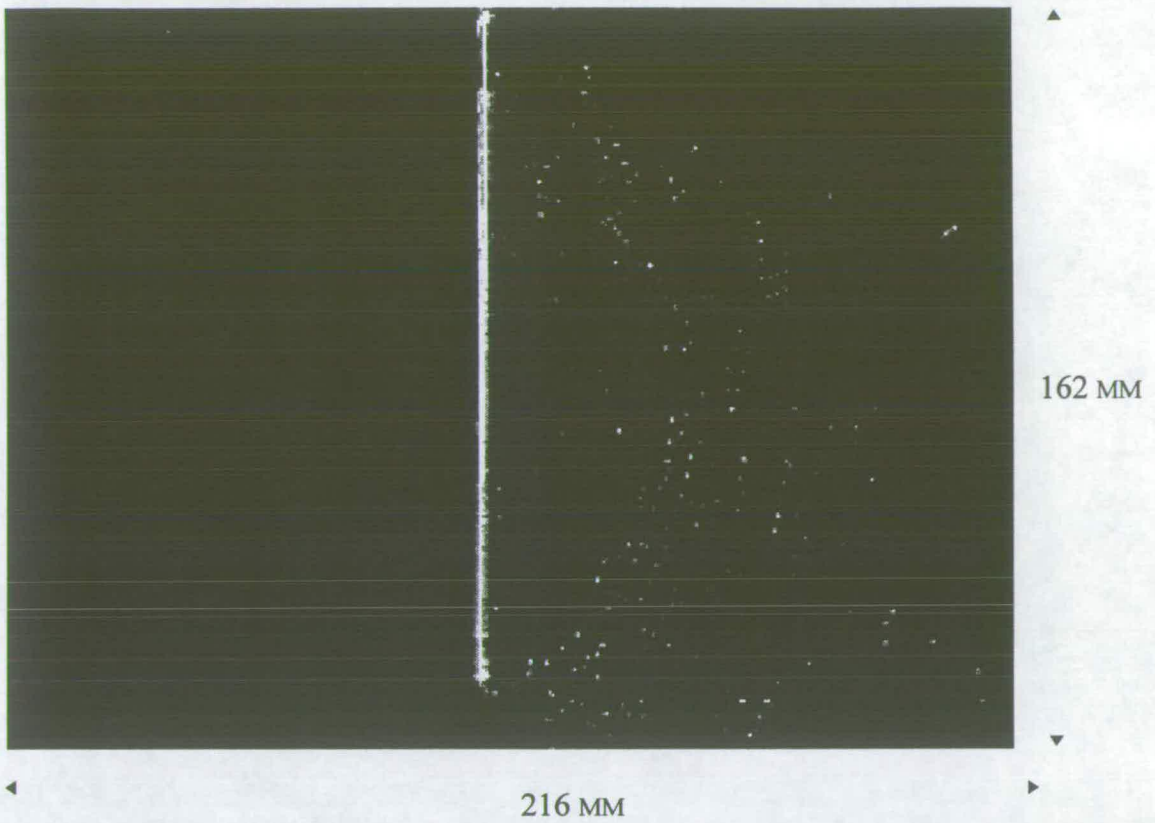
216 MM

**ORIGINAL IMAGE**

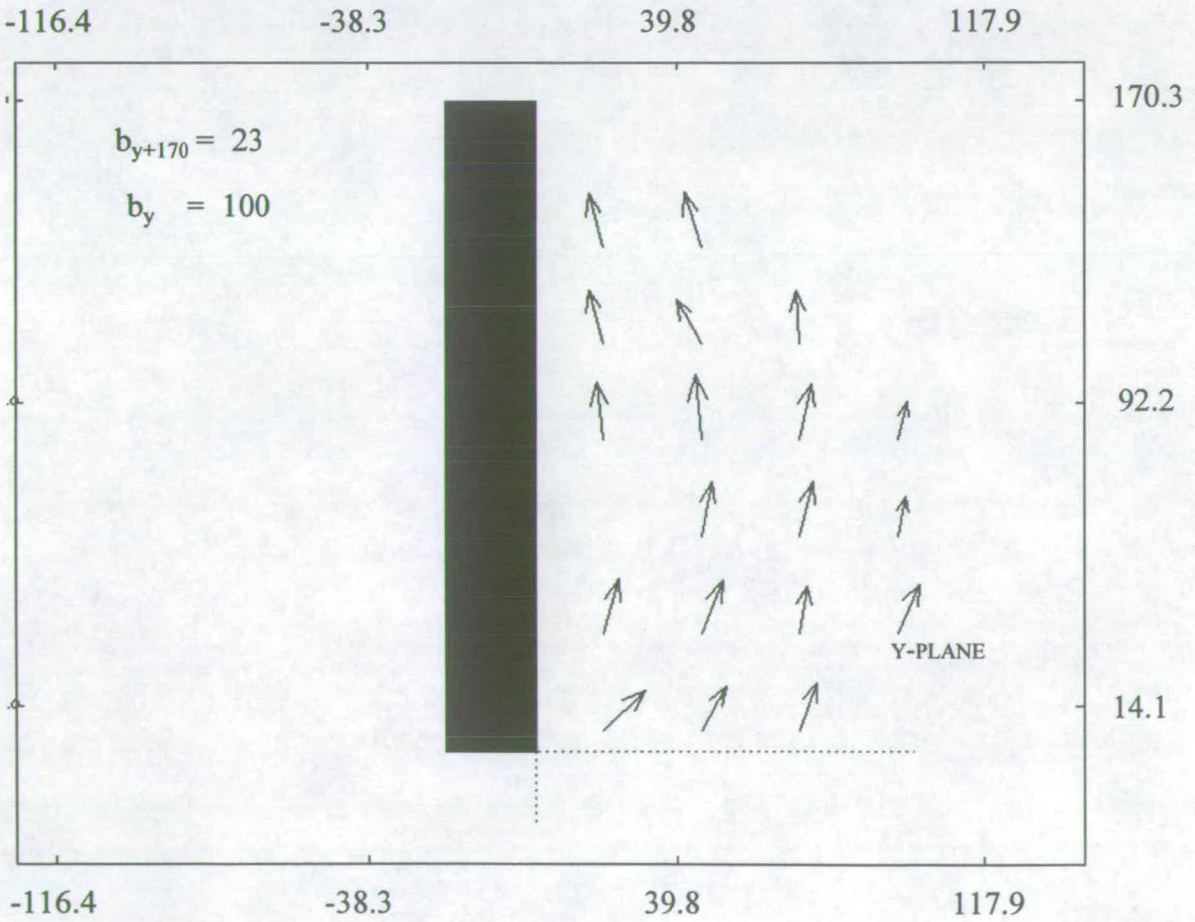


**VECTOR MAP**  
**IMAGE NO. 129**

(REF.: LD200Y01)

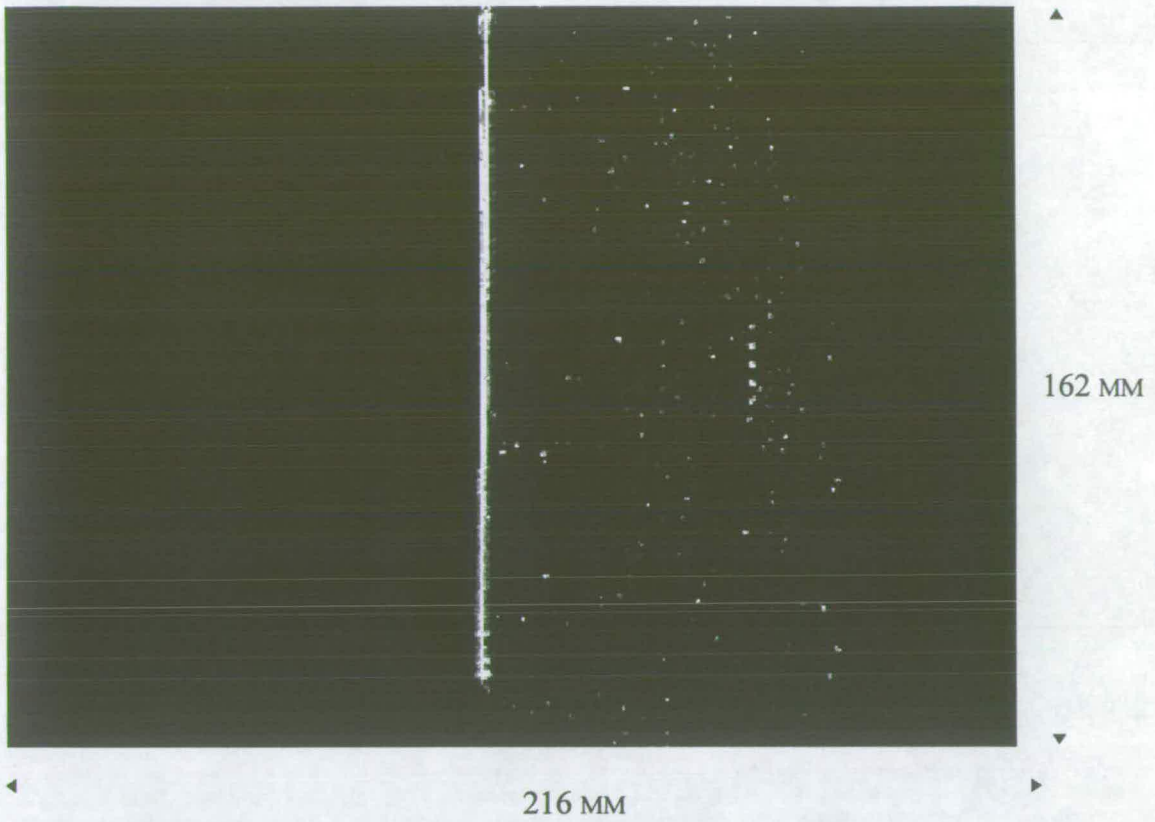


**ORIGINAL IMAGE**

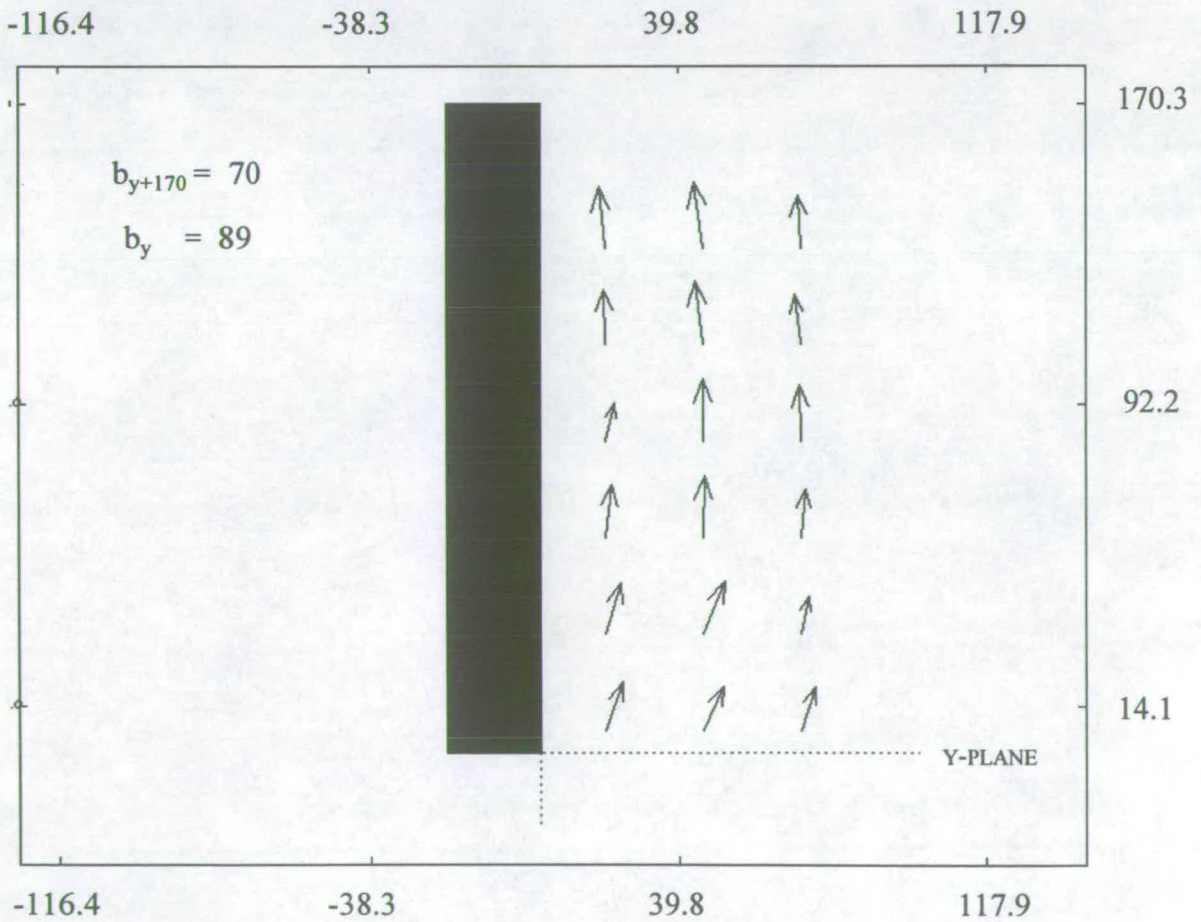


**VECTOR MAP**  
**IMAGE No. 130**

(REF.: LD200Y02)

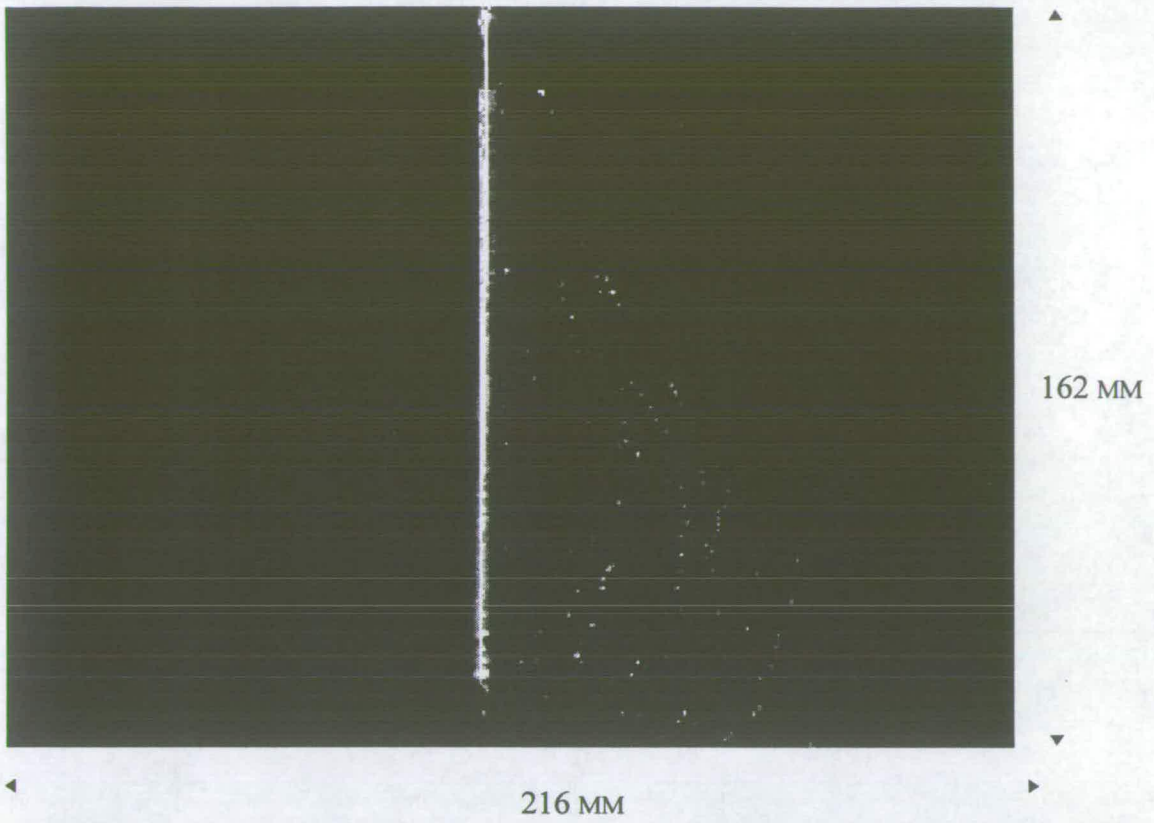


**ORIGINAL IMAGE**

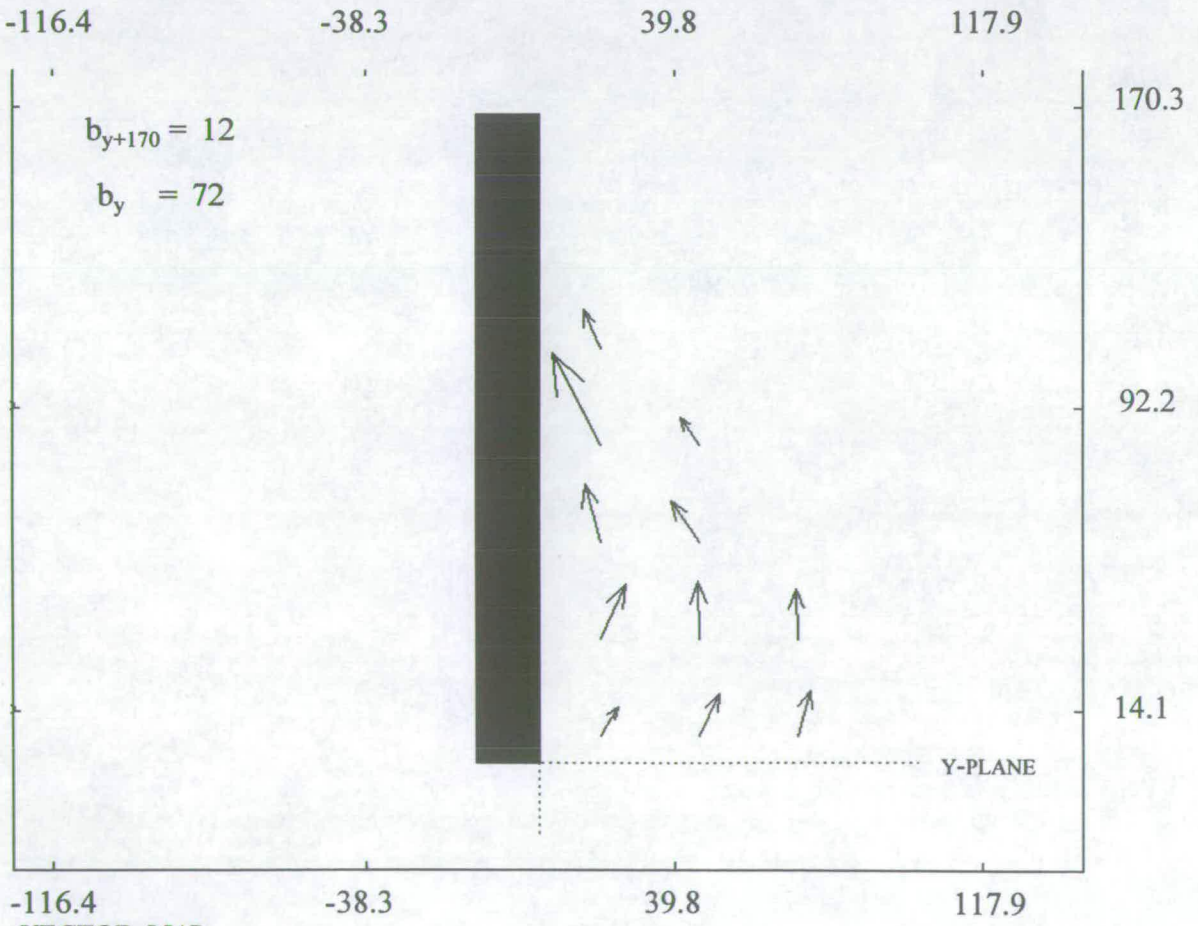


**VECTOR MAP**  
**IMAGE No. 131**

(REF.: LD200Y03)

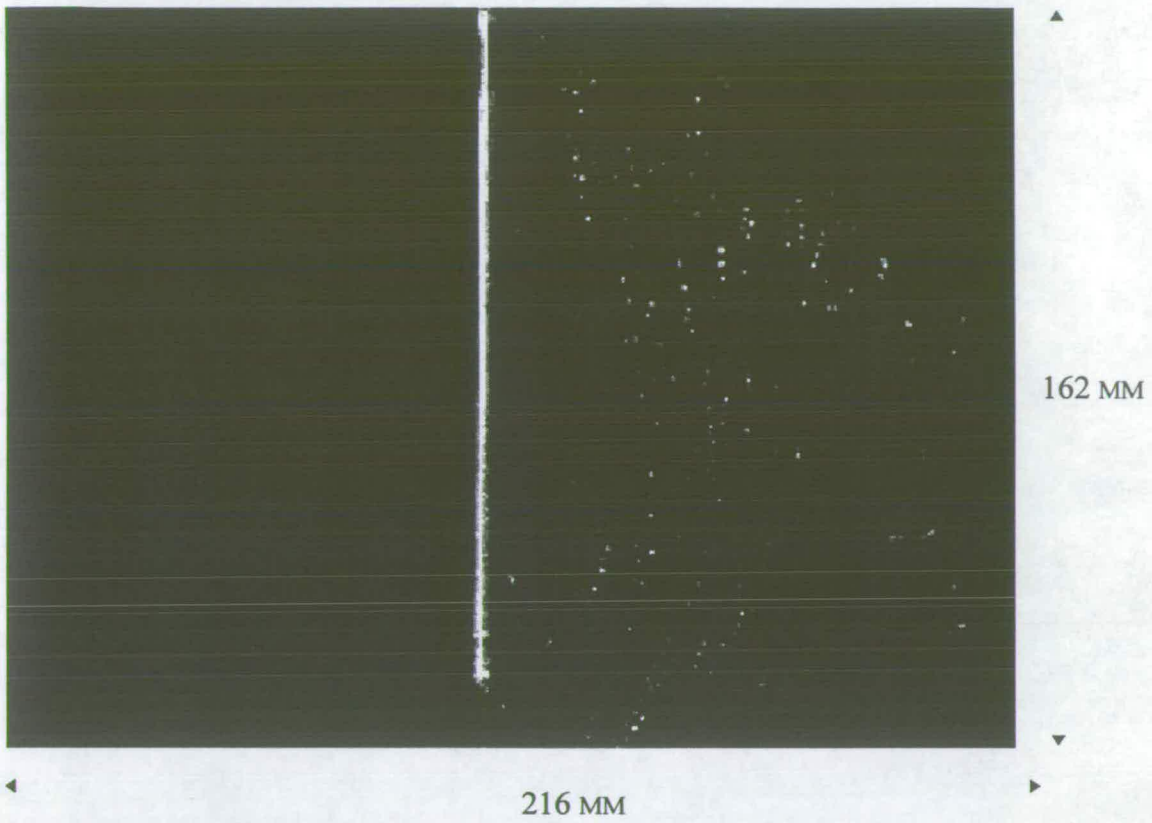


**ORIGINAL IMAGE**

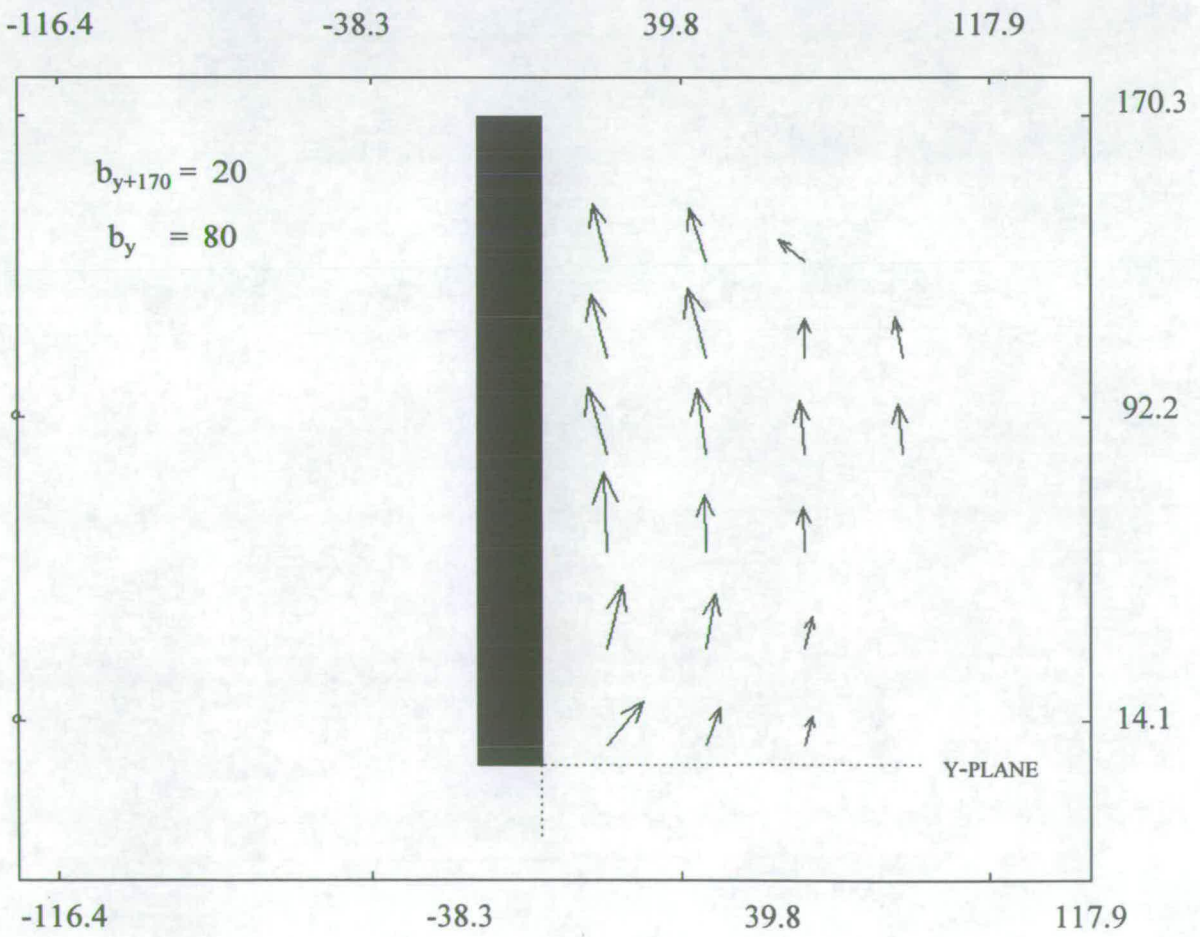


**VECTOR MAP**  
**IMAGE NO. 132**

(REF.: LD200Y04)

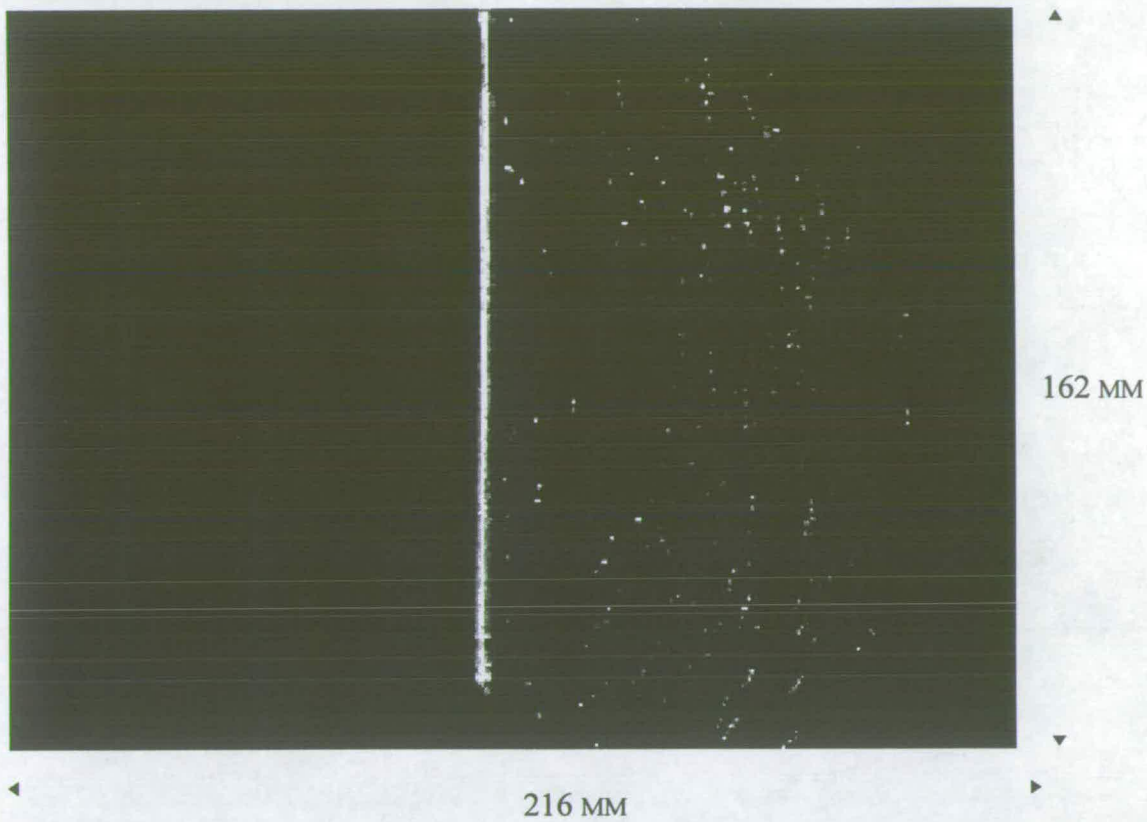


ORIGINAL IMAGE

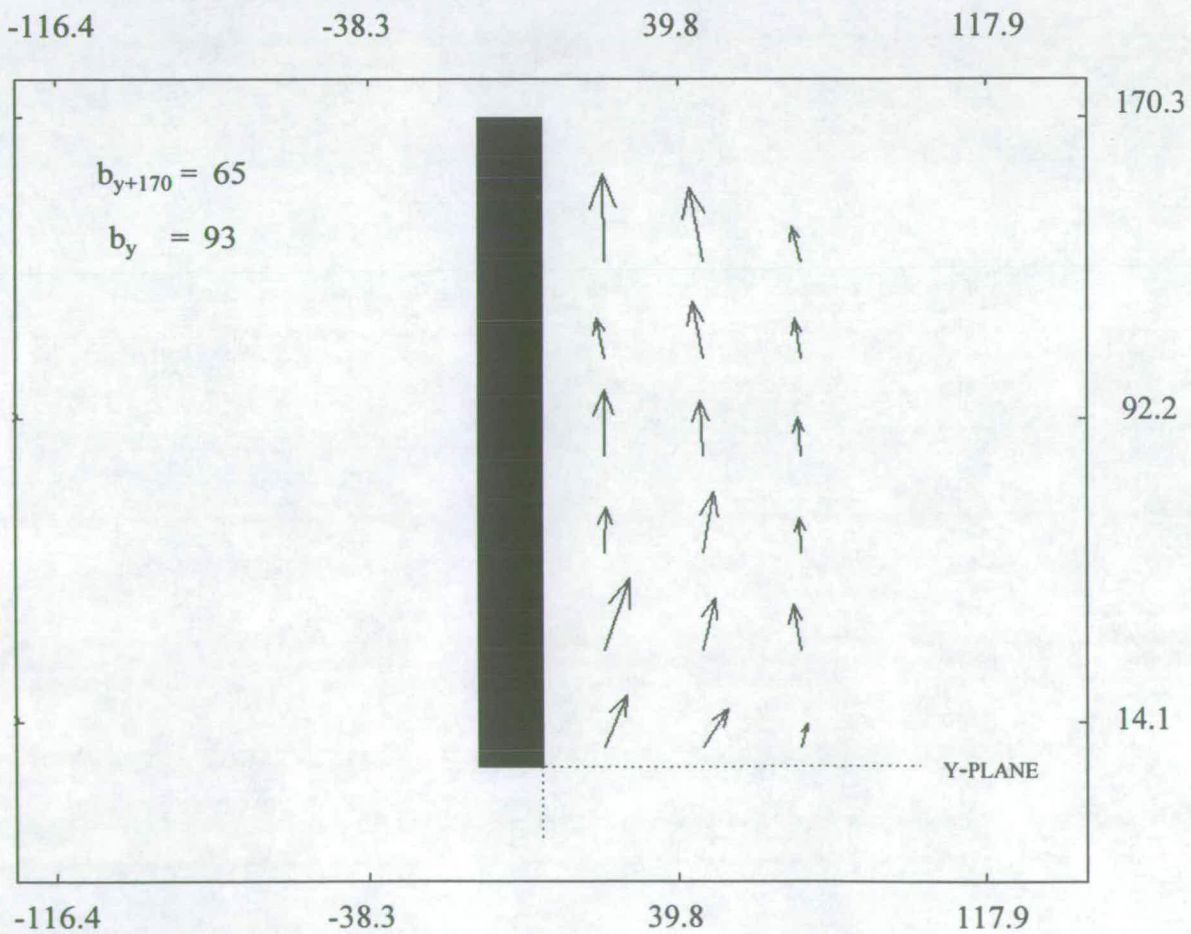


VECTOR MAP  
IMAGE NO. 133

(REF.: LD200Y05)

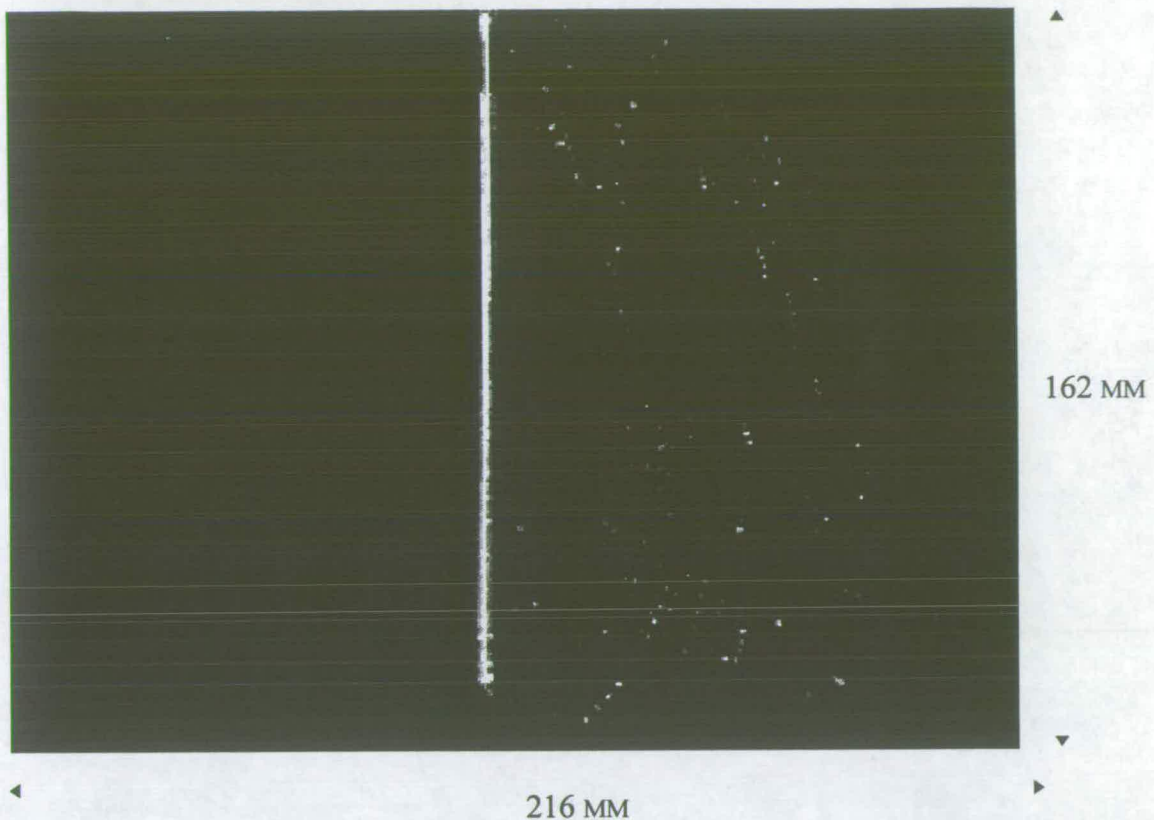


**ORIGINAL IMAGE**

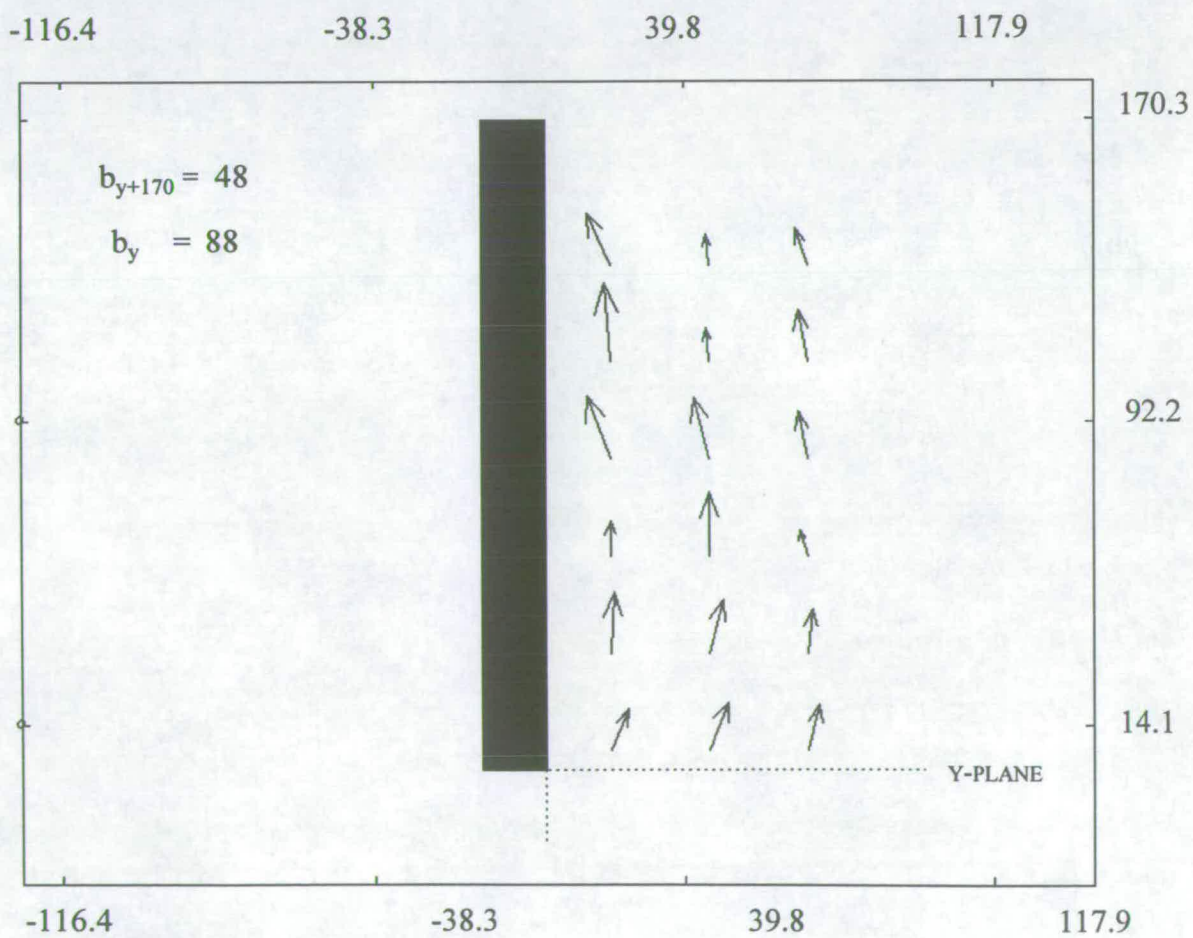


**VECTOR MAP  
IMAGE NO. 134**

(REF.: LD200Y06)

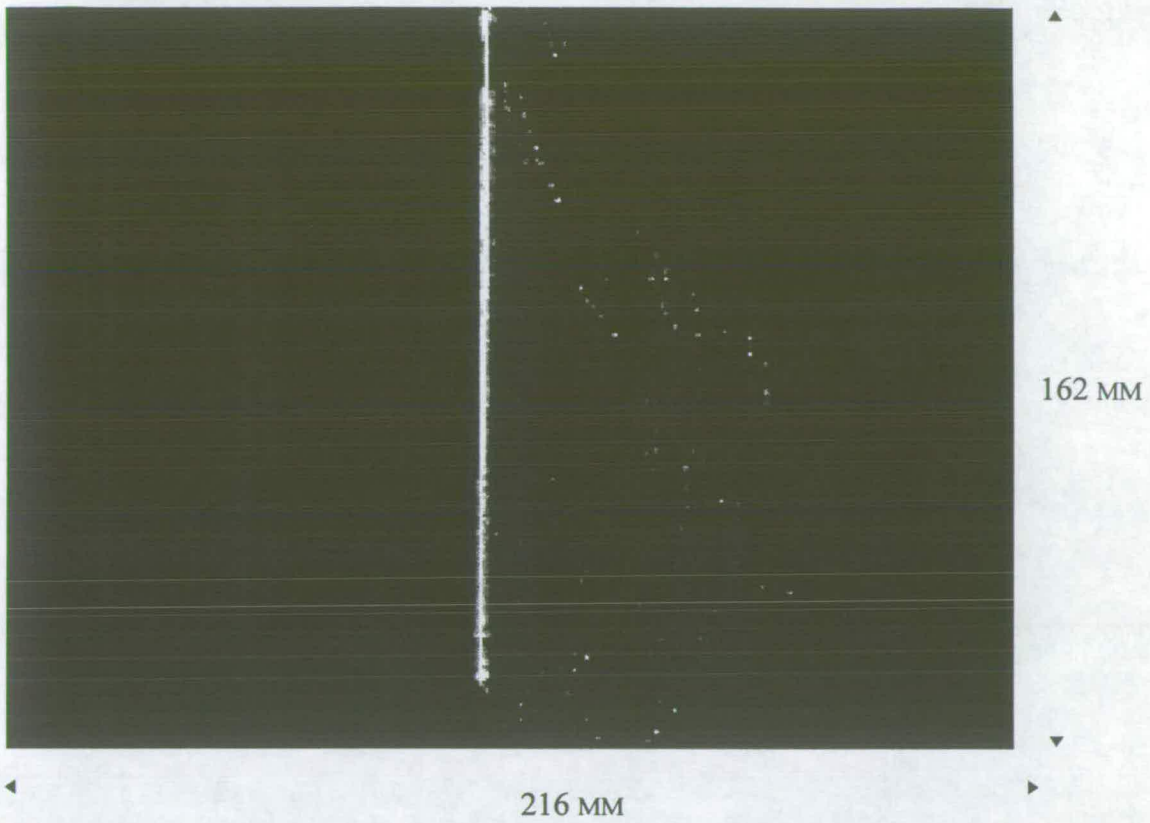


ORIGINAL IMAGE

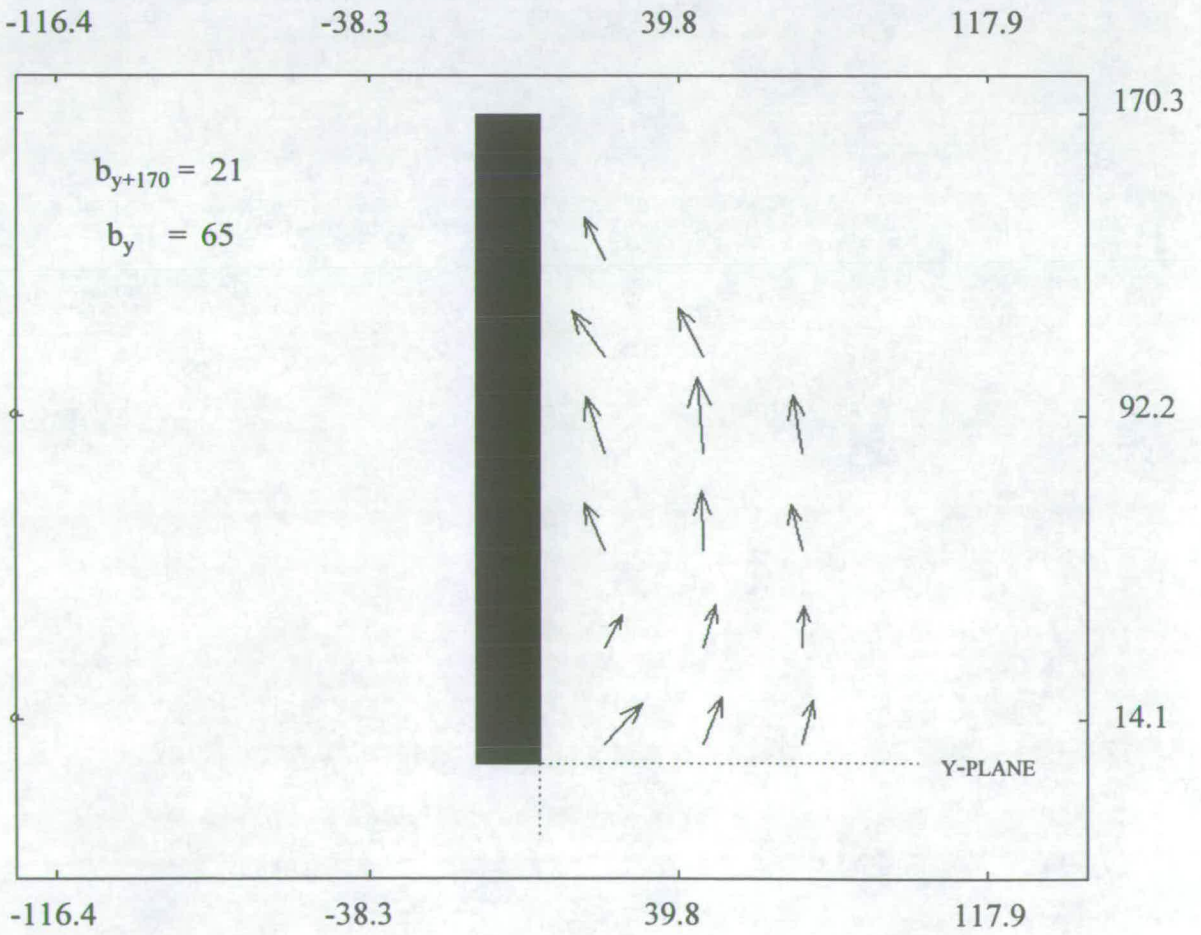


VECTOR MAP  
IMAGE No. 135

(REF.: LD200Y08)



ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 136

(REF.: LD200Y09)

Im 129		Ld2qy01		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	1.469	0.229	-4.545	0.710		1.233
46.4	132.5	2.922	0.456	-3.605	0.563		1.207
71.4	132.5	0.264	0.041	-11.630	1.817		1.000
21.5	107.5	0.615	0.096	-4.571	0.714		1.223
46.4	107.5	0.975	0.152	-4.602	0.719		1.000
71.4	107.5	0.373	0.058	-8.756	1.368		1.000
21.5	82.5	-0.161	-0.025	-4.030	0.630		1.000
46.4	82.5	-0.970	-0.152	-6.341	0.990		1.000
71.4	82.5	-0.645	-0.101	-7.060	1.103		1.000
96.4	82.5	1.948	0.304	-5.737	0.896		1.000
21.5	57.5	1.361	0.213	-5.741	0.897		1.152
46.4	57.5	0.060	0.009	-6.685	1.044		1.000
71.4	57.5	-0.048	-0.008	-4.576	0.715		1.000
96.4	57.5	0.293	0.046	-5.686	0.888		1.073
21.5	32.5	5.016	0.783	-5.981	0.934		1.150
46.4	32.5	1.792	0.280	-6.349	0.992		1.000
71.4	32.5	0.463	0.072	-3.918	0.612		1.000
96.4	32.5	-0.687	-0.107	-4.174	0.652		1.000
21.5	7.6	3.907	0.610	-4.672	0.730		1.083
46.4	7.6	1.892	0.296	-4.036	0.630		1.000
71.4	7.6	0.941	0.147	-4.377	0.684		1.091

Im 130		Ld2qy02		velocity			noise
location				x	y	y	
x	y	x	x				snr
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	-1.471	-0.230	-5.696	0.890		1.000
46.4	132.5	-1.806	-0.282	-5.876	0.918		1.000
21.5	107.5	-1.475	-0.230	-5.766	0.901		1.087
46.4	107.5	-2.625	-0.410	-4.791	0.748		1.099
71.4	107.5	-0.217	-0.034	-5.769	0.901		1.000
21.5	82.5	-0.557	-0.087	-6.196	0.968		1.000
46.4	82.5	-0.624	-0.098	-7.060	1.103		1.000
71.4	82.5	1.463	0.229	-6.107	0.954		1.000
96.4	82.5	1.080	0.169	-4.081	0.638		1.000
46.4	57.5	1.219	0.190	-5.862	0.916		1.000
71.4	57.5	1.542	0.241	-5.931	0.926		1.000
96.4	57.5	0.867	0.135	-4.325	0.676		1.000
21.5	32.5	1.797	0.281	-5.931	0.926		1.000
46.4	32.5	2.432	0.380	-5.693	0.889		1.000
71.4	32.5	0.960	0.150	-5.123	0.800		1.000
96.4	32.5	2.393	0.374	-5.312	0.830		1.000
21.5	7.6	4.534	0.708	-4.261	0.666		1.196
46.4	7.6	2.685	0.419	-4.808	0.751		1.171
71.4	7.6	1.981	0.309	-5.165	0.807		1.097

Im 131		Ld2qy03		velocity			noise	
location				x	x	y	y	
x	y	x	x					snr
mm	mm	pix/per	m/s	pix/per	m/s			
21.5	132.5	-0.657	-0.103	-6.769	1.057			1.043
46.4	132.5	-0.877	-0.137	-7.326	1.144			1.000
71.4	132.5	-0.331	-0.052	-5.780	0.903			1.000
21.5	107.5	-0.048	-0.007	-5.945	0.929			1.000
46.4	107.5	-0.794	-0.124	-6.884	1.075			1.000
71.4	107.5	-0.569	-0.089	-5.461	0.853			1.000
21.5	82.5	1.038	0.162	-4.086	0.638			1.000
46.4	82.5	0.165	0.026	-6.820	1.065			1.000
71.4	82.5	-0.066	-0.010	-6.002	0.938			1.000
21.5	57.5	0.814	0.127	-5.669	0.886			1.105
46.4	57.5	0.227	0.035	-6.759	1.056			1.000
71.4	57.5	0.561	0.088	-5.252	0.820			1.000
21.5	32.5	1.716	0.268	-5.543	0.866			1.339
46.4	32.5	2.373	0.371	-5.781	0.903			1.000
71.4	32.5	0.835	0.130	-4.018	0.628			1.000
21.5	7.6	1.942	0.303	-5.239	0.818			1.029
46.4	7.6	2.184	0.341	-4.709	0.736			1.000
71.4	7.6	1.563	0.244	-4.718	0.737			1.138

Im 132		Ld2qy04		velocity			noise	
location				x	x	y	y	
x	y	x	x					snr
mm	mm	pix/per	m/s	pix/per	m/s			
21.5	107.5	-1.708	-0.267	-4.285	0.669			1.000
21.5	82.5	-5.029	-0.785	-10.097	1.577			1.078
46.4	82.5	-1.985	-0.310	-2.912	0.455			1.000
21.5	57.5	-1.599	-0.250	-6.285	0.982			1.032
46.4	57.5	-2.979	-0.465	-4.362	0.681			1.285
21.5	32.5	2.698	0.421	-5.869	0.917			1.056
46.4	32.5	-0.038	-0.006	-6.287	0.982			1.000
71.4	32.5	-0.048	-0.007	-5.496	0.858			1.062
21.5	7.6	1.966	0.307	-3.157	0.493			1.000
46.4	7.6	2.308	0.361	-4.551	0.711			1.000
71.4	7.6	1.456	0.227	-4.933	0.770			1.031

**Im 133 Ld2qy05**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	-1.454	-0.227	-6.312	0.986	1.000	
46.4	132.5	-1.811	-0.283	-5.777	0.902	1.000	
71.4	132.5	-2.699	-0.422	-2.188	0.342	1.000	
21.5	107.5	-1.657	-0.259	-6.928	1.082	1.358	
46.4	107.5	-1.882	-0.294	-7.667	1.198	1.000	
71.4	107.5	0.046	0.007	-4.296	0.671	1.000	
96.4	107.5	-0.831	-0.130	-4.431	0.692	1.428	
21.5	82.5	-1.891	-0.295	-7.236	1.130	1.000	
46.4	82.5	-0.918	-0.143	-7.093	1.108	1.000	
71.4	82.5	-0.457	-0.071	-5.720	0.894	1.040	
96.4	82.5	-0.356	-0.056	-5.387	0.841	1.297	
21.5	57.5	-0.191	-0.030	-8.644	1.350	1.000	
46.4	57.5	-0.042	-0.007	-6.124	0.957	1.000	
71.4	57.5	-0.059	-0.009	-4.746	0.741	1.000	
21.5	32.5	1.765	0.276	-6.839	1.068	1.000	
46.4	32.5	1.163	0.182	-5.955	0.930	1.000	
71.4	32.5	0.936	0.146	-3.409	0.532	1.000	
21.5	7.6	3.922	0.613	-4.820	0.753	1.367	
46.4	7.6	1.595	0.249	-4.079	0.637	1.000	
71.4	7.6	0.977	0.153	-3.127	0.488	1.000	

**Im 134 Ld2qy06**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	-0.077	-0.012	-9.525	1.488	1.000	
46.4	132.5	-1.443	-0.225	-8.036	1.255	1.000	
71.4	132.5	-0.918	-0.143	-3.794	0.593	1.000	
21.5	107.5	-0.762	-0.119	-4.261	0.666	1.000	
46.4	107.5	-1.146	-0.179	-6.055	0.946	1.000	
71.4	107.5	-0.511	-0.080	-4.258	0.665	1.000	
21.5	82.5	0.085	0.013	-7.091	1.108	1.000	
46.4	82.5	-0.199	-0.031	-5.977	0.934	1.000	
71.4	82.5	-0.242	-0.038	-4.024	0.629	1.000	
21.5	57.5	0.300	0.047	-4.984	0.778	1.000	
46.4	57.5	1.260	0.197	-6.581	1.028	1.000	
71.4	57.5	-0.104	-0.016	-3.795	0.593	1.000	
21.5	32.5	2.796	0.437	-7.667	1.198	1.280	
46.4	32.5	1.377	0.215	-5.594	0.874	1.020	
71.4	32.5	-0.732	-0.114	-4.886	0.763	1.000	
21.5	7.6	2.355	0.368	-5.594	0.874	1.282	
46.4	7.6	2.832	0.442	-4.027	0.629	1.552	
71.4	7.6	0.769	0.120	-2.454	0.383	1.000	

**Im 135 Ld2qy08**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	-2.361	-0.369	-5.532	0.864	1.000	
46.4	132.5	-0.219	-0.034	-3.247	0.507	1.000	
71.4	132.5	-1.215	-0.190	-3.858	0.603	1.000	
21.5	107.5	-0.573	-0.090	-8.610	1.345	1.000	
46.4	107.5	-0.197	-0.031	-3.599	0.562	1.000	
71.4	107.5	-0.848	-0.132	-5.552	0.867	1.000	
21.5	82.5	-2.472	-0.386	-6.785	1.060	1.000	
46.4	82.5	-1.593	-0.249	-6.664	1.041	1.000	
71.4	82.5	-0.836	-0.131	-5.042	0.787	1.000	
21.5	57.5	0.019	0.003	-3.735	0.583	1.000	
46.4	57.5	0.129	0.020	-6.840	1.068	1.000	
71.4	57.5	-0.766	-0.120	-2.753	0.430	1.000	
21.5	32.5	0.368	0.058	-6.518	1.018	1.000	
46.4	32.5	1.519	0.237	-5.821	0.909	1.000	
71.4	32.5	0.536	0.084	-4.807	0.751	1.000	
21.5	7.6	1.946	0.304	-4.370	0.683	1.000	
46.4	7.6	2.101	0.328	-5.083	0.794	1.000	
71.4	7.6	1.278	0.200	-4.948	0.773	1.022	

**Im 136 Ld2qy09**

location		velocity				noise	
x	y	x	x	y	y	snr	
mm	mm	pix/per	m/s	pix/per	m/s		
21.5	132.5	-2.047	-0.320	-4.654	0.727	1.000	
21.5	107.5	-3.404	-0.532	-4.890	0.764	1.123	
46.4	107.5	-2.598	-0.406	-5.235	0.818	1.718	
21.5	82.5	-1.841	-0.288	-6.019	0.940	1.186	
46.4	82.5	-0.533	-0.083	-8.218	1.284	1.000	
71.4	82.5	-0.892	-0.139	-6.232	0.973	1.087	
21.5	57.5	-2.037	-0.318	-5.150	0.804	1.000	
46.4	57.5	-0.054	-0.008	-6.338	0.990	1.000	
71.4	57.5	-1.036	-0.162	-4.880	0.762	1.000	
21.5	32.5	1.936	0.302	-3.380	0.528	1.000	
46.4	32.5	1.426	0.223	-4.507	0.704	1.000	
71.4	32.5	0.330	0.052	-4.415	0.690	1.000	
21.5	7.6	4.014	0.627	-4.426	0.691	1.545	
46.4	7.6	2.133	0.333	-5.093	0.796	1.000	
71.4	7.6	1.288	0.201	-4.704	0.735	1.012	

**Velocity Data for Images 129 to 136**  
**200 Downstand            2460 Compartment**  
**Vertical Velocities**

Location		Velocity								m/s	
x	y	L2y01	L2y02	L2y03	L2y04	L2y05	L2y06	L2y07	L2y08	mean	
mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean	
21.5	132.5	0.710	0.890	1.057	0.000	0.986	1.488	0.864	0.727	0.840	
46.4	132.5	0.563	0.918	1.144	0.000	0.902	1.255	0.507	0.000	0.661	
71.4	132.5	1.817	0.000	0.903	0.000	0.342	0.593	0.603	0.000	0.532	

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	107.5	0.714	0.901	0.929	0.669	1.082	0.666	1.345	0.764	0.884
46.4	107.5	0.719	0.748	1.075	0.000	1.198	0.946	0.562	0.818	0.758
71.4	107.5	1.368	0.901	0.853	0.000	0.671	0.665	0.867	0.000	0.666
96.4	107.5	0.000	0.000	0.000	0.000	0.692	0.000	0.000	0.000	0.087

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	82.5	0.630	0.968	0.638	1.577	1.130	1.108	1.060	0.940	1.006
46.4	82.5	0.990	1.103	1.065	0.455	1.108	0.934	1.041	1.284	0.997
71.4	82.5	1.103	0.954	0.938	0.000	0.894	0.629	0.787	0.973	0.785
96.4	82.5	0.896	0.638	0.000	0.000	0.841	0.000	0.000	0.000	0.297

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	57.5	0.897	0.000	0.886	0.982	1.350	0.778	0.583	0.804	0.785
46.4	57.5	1.044	0.916	1.056	0.681	0.957	1.028	1.068	0.990	0.967
71.4	57.5	0.715	0.926	0.820	0.000	0.741	0.593	0.430	0.762	0.623
96.4	57.5	0.888	0.676	0.000	0.000	0.000	0.000	0.000	0.000	0.195

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	32.5	0.934	0.926	0.866	0.917	1.068	1.198	1.018	0.528	0.932
46.4	32.5	0.992	0.889	0.903	0.982	0.930	0.874	0.909	0.704	0.898
71.4	32.5	0.612	0.800	0.628	0.858	0.532	0.763	0.751	0.690	0.704
96.4	32.5	0.652	0.830	0.000	0.000	0.000	0.000	0.000	0.000	0.185

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	7.6	0.730	0.666	0.818	0.493	0.753	0.874	0.683	0.691	0.713
46.4	7.6	0.630	0.751	0.736	0.711	0.637	0.629	0.794	0.796	0.710
71.4	7.6	0.684	0.807	0.737	0.770	0.488	0.383	0.773	0.735	0.672

**Horizontal Velocities**

Location		Velocity								m/s	
x	y	L2y01	L2y02	L2y03	L2y04	L2y05	L2y06	L2y07	L2y08	mean	
mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean	
21.5	132.5	0.229	-0.230	-0.103	0.000	-0.227	-0.012	-0.369	-0.320	-0.129	
46.4	132.5	0.456	-0.282	-0.137	0.000	-0.283	-0.225	-0.034	0.000	-0.063	
71.4	132.5	0.041	0.000	-0.052	0.000	-0.422	-0.143	-0.190	0.000	-0.096	

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	107.5	0.096	-0.230	-0.007	-0.267	-0.259	-0.119	-0.090	-0.532	-0.176
46.4	107.5	0.152	-0.410	-0.124	0.000	-0.294	-0.179	-0.031	-0.406	-0.161
71.4	107.5	0.058	-0.034	-0.089	0.000	0.007	-0.080	-0.132	0.000	-0.034
96.4	107.5	0.000	0.000	0.000	0.000	-0.130	0.000	0.000	0.000	-0.016

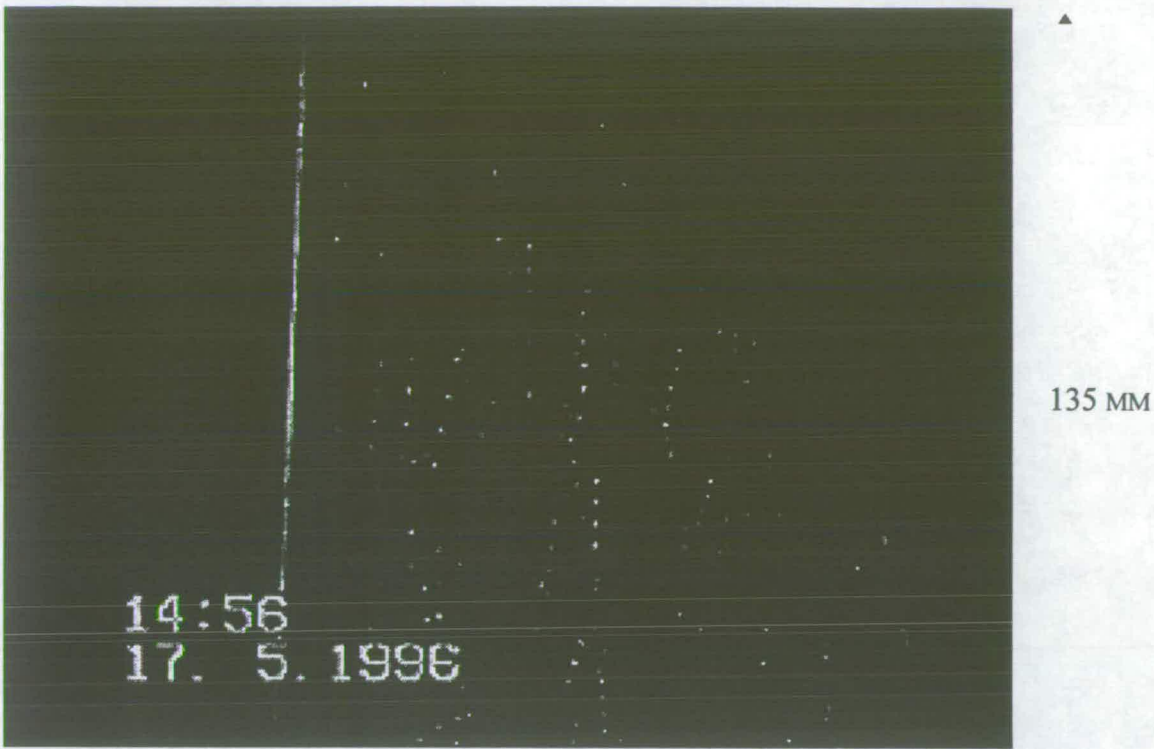
mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	82.5	-0.025	-0.087	0.162	-0.785	-0.295	0.013	-0.386	-0.288	-0.211
46.4	82.5	-0.152	-0.098	0.026	-0.310	-0.143	-0.031	-0.249	-0.083	-0.130
71.4	82.5	-0.101	0.229	-0.010	0.000	-0.071	-0.038	-0.131	-0.139	-0.033
96.4	82.5	0.304	0.169	0.000	0.000	-0.056	0.000	0.000	0.000	0.052

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	57.5	0.213	0.000	0.127	-0.250	-0.030	0.047	0.003	-0.318	-0.026
46.4	57.5	0.009	0.190	0.035	-0.465	-0.007	0.197	0.020	-0.008	-0.004
71.4	57.5	-0.008	0.241	0.088	0.000	-0.009	-0.016	-0.120	-0.162	0.002
96.4	57.5	0.046	0.135	0.000	0.000	0.000	0.000	0.000	0.000	0.023

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	32.5	0.783	0.281	0.268	0.421	0.276	0.437	0.058	0.302	0.353
46.4	32.5	0.280	0.380	0.371	-0.006	0.182	0.215	0.237	0.223	0.235
71.4	32.5	0.072	0.150	0.130	-0.007	0.146	-0.114	0.084	0.052	0.064
96.4	32.5	-0.107	0.374	0.000	0.000	0.000	0.000	0.000	0.000	0.033

mm	mm	lm129	lm130	lm131	lm132	lm133	lm134	lm135	lm136	mean
21.5	7.6	0.610	0.708	0.303	0.307	0.613	0.368	0.304	0.627	0.480
46.4	7.6	0.296	0.419	0.341	0.361	0.249	0.442	0.328	0.333	0.346
71.4	7.6	0.147	0.309	0.244	0.227	0.153	0.120	0.200	0.201	0.200

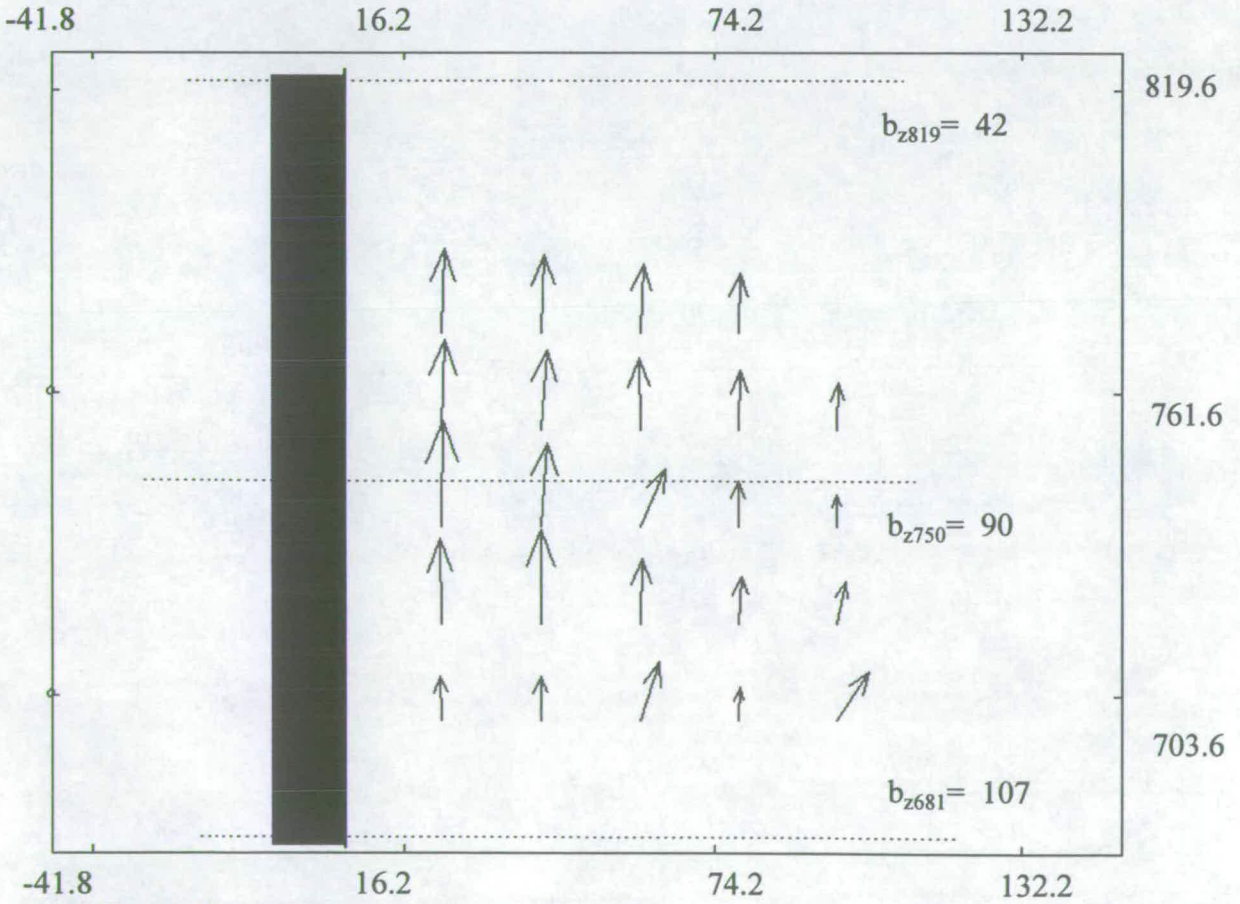




ORIGINAL IMAGE

186 MM

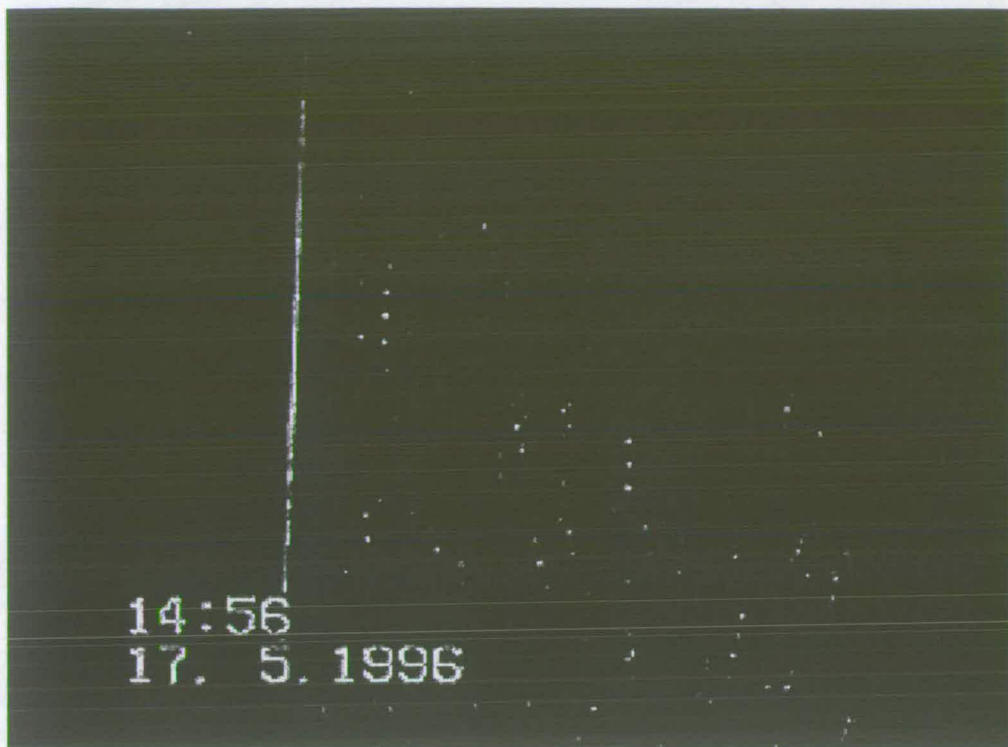
135 MM



VECTOR MAP

IMAGE NO. 137

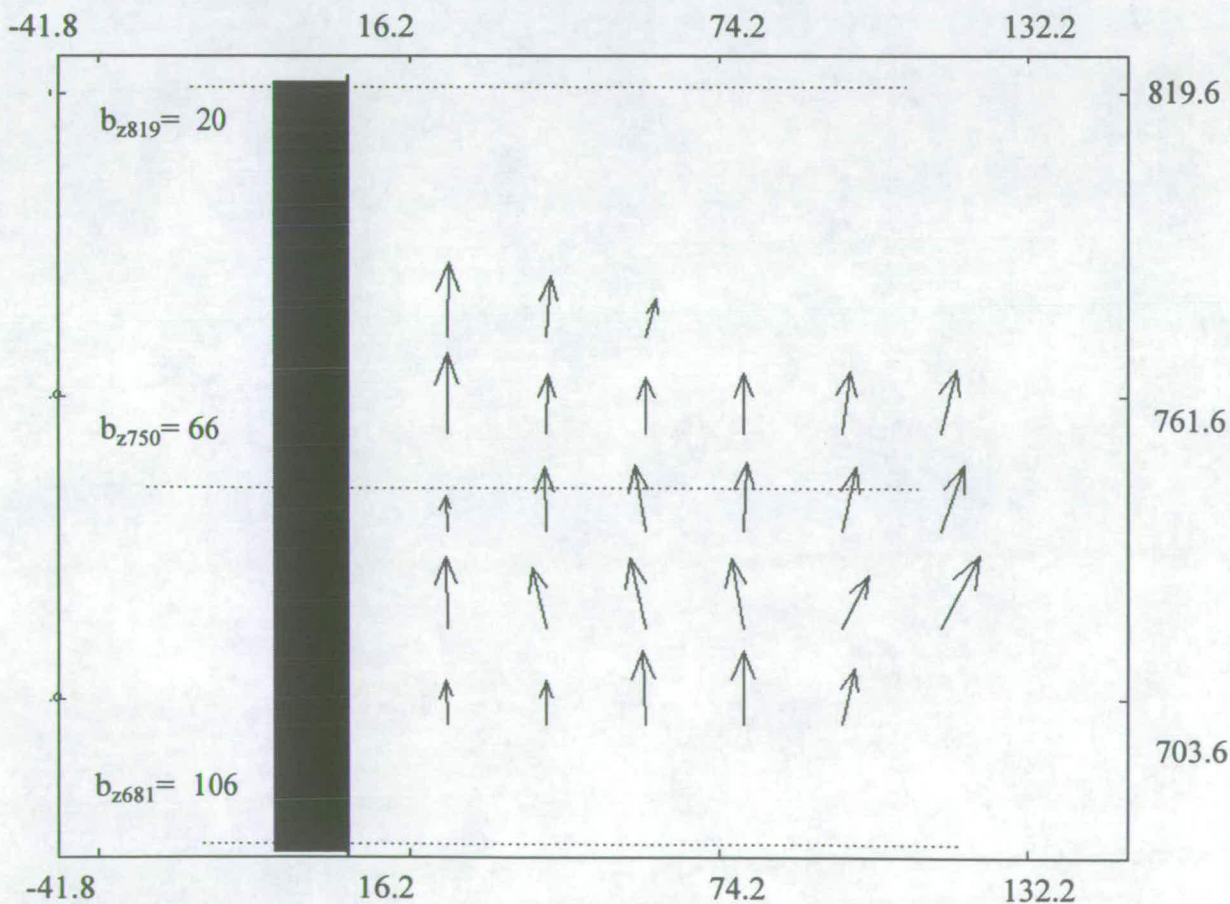
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135 MM

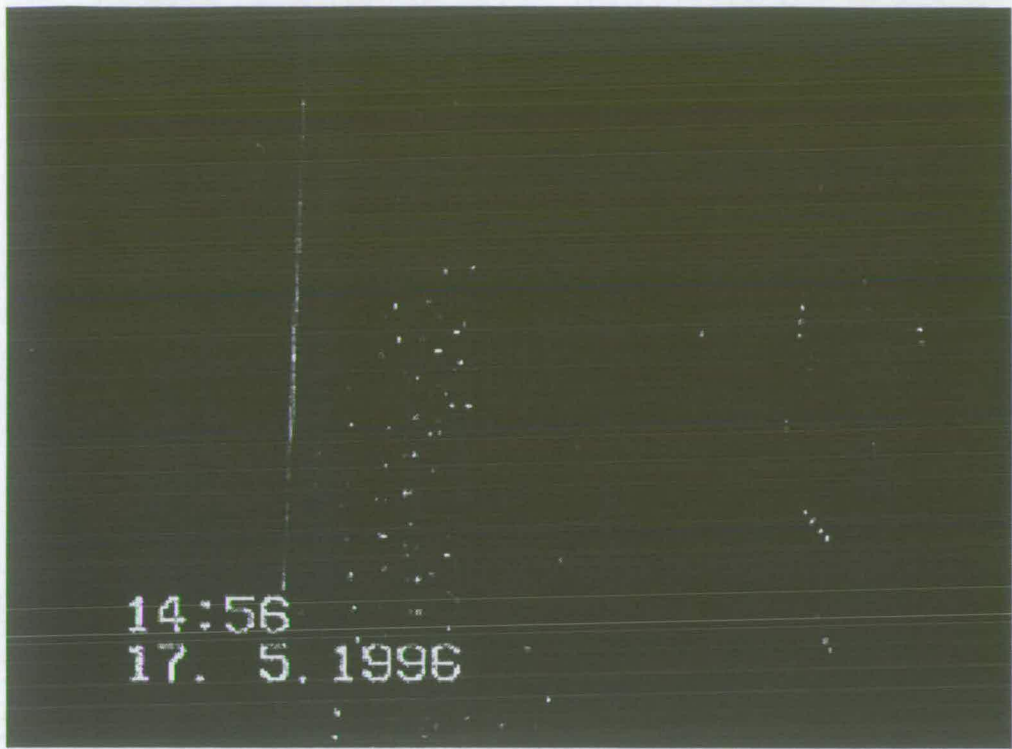
186 MM

ORIGINAL IMAGE



VECTOR MAP  
IMAGE NO. 138

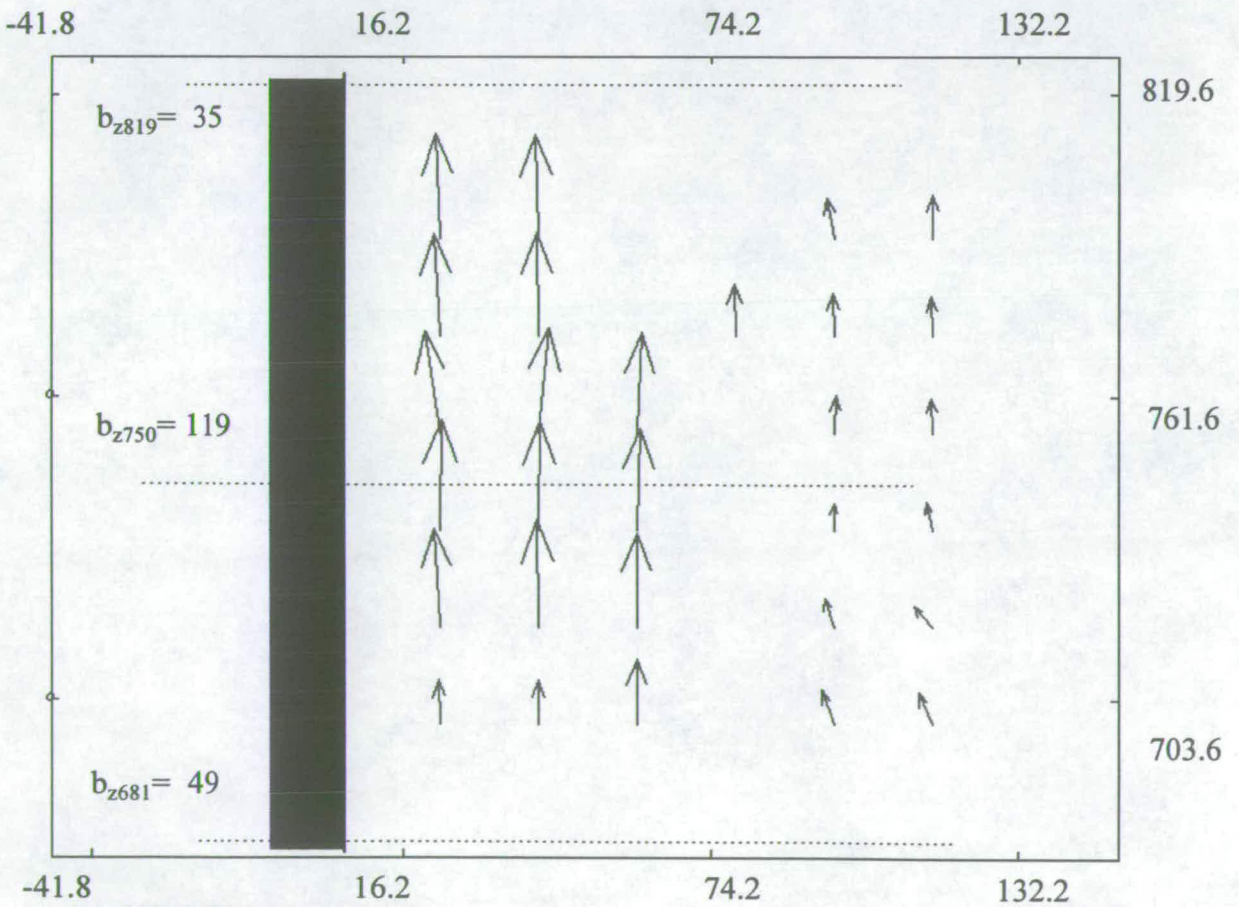
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135 MM

186 MM

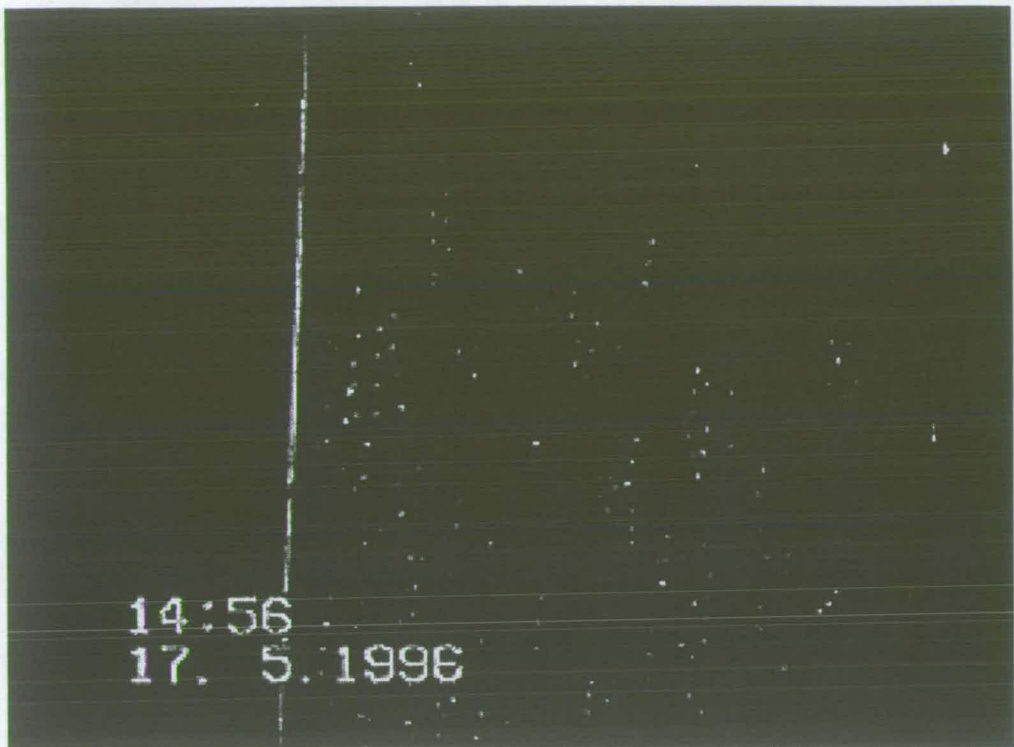
ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 139

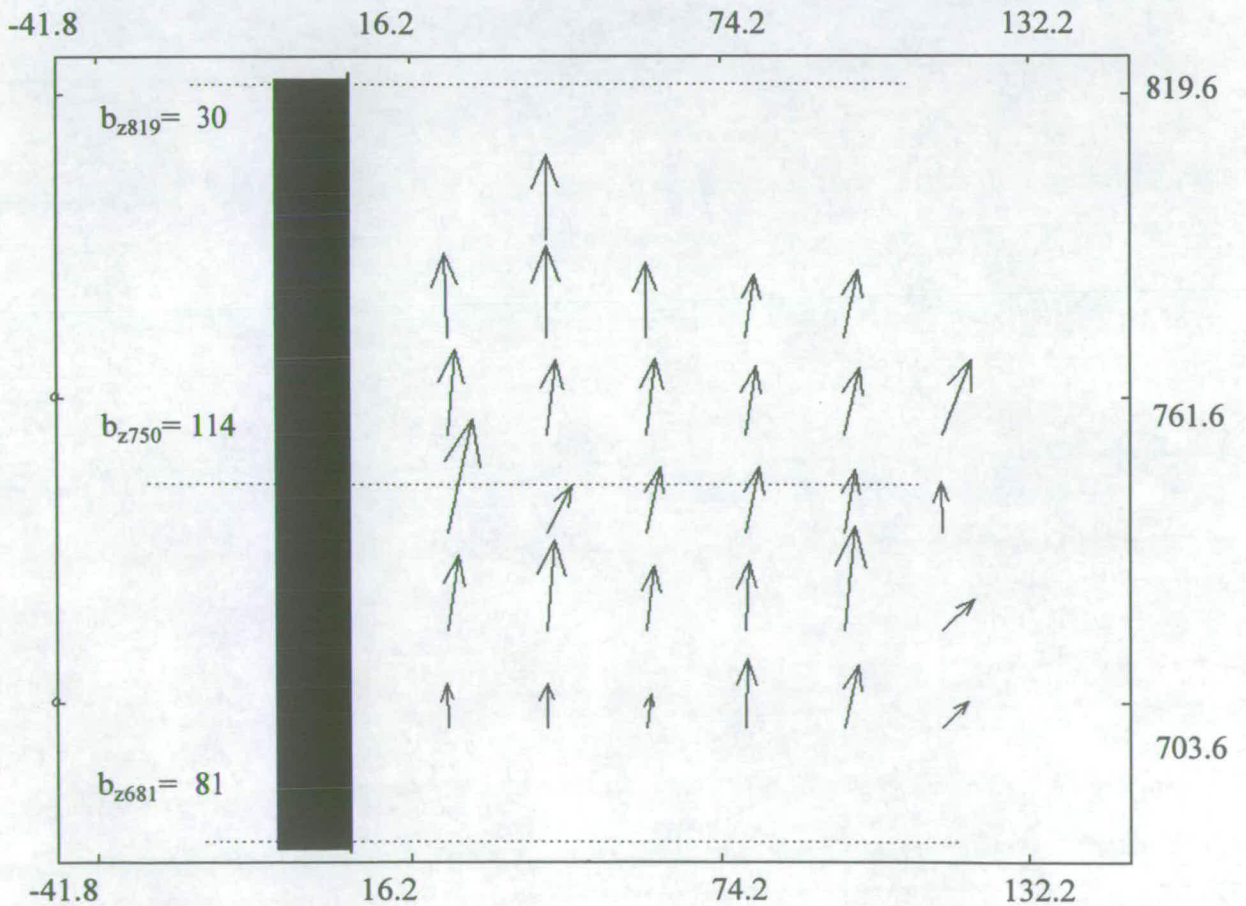
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135 MM

186 MM

ORIGINAL IMAGE



VECTOR MAP

IMAGE NO. 140

(REF.: LD2H04)