

Report Dana cruise 2006.

Institute: Institute for Hydrobiology and Fisheries science (IHF), University of Hamburg

Date: from 06.06.2006 to 21.06.2006

Area: Central North Sea (Lile Fiskebanke, Dogger Bank; 50 m depth line)

PARTICIPANTS:

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OBJECTIVES OF THE CRUISE:

The cruise was conducted as student education cruise and within the thematic framework of the research projects GLOBEC, Germany "Trophic Interactions between Zooplankton and Fish under the Influence of Physical Processes" and BECAUSE "Critical Interactions BETWEEN Species and their Implications for a PreCAUTIONARY FiSheries Management in a variableEnvironment - a Modelling Approach". This cruise investigated the distribution of sprat (*Sprattus sprattus*) spawn in the North Sea and how larval and predator aggregations at hydrographic frontal systems in the North Sea impact the recruitment success of commercially important species (e.g. *Gadus morhua*)

The following objectives were addressed during the cruise:

- Determine the location of centres of the sprat spawning areas in the Southern North Sea (samples from Bongo and Multi-net)
- Identify hydrographic factors determining the sprat spawning areas (CTD measurements, Bongo samples)

- Quantify differences in condition factors of fish larvae and juvenile fish inside and outside of frontal areas (samples from Young-fish trawl or MIK-Trawl)
- Quantify differences in top down effects (predation mortality) on fish larvae and juvenile fish inside and outside of frontal areas (Hydroacoustics (Simrad EK 600) and ground truth hauls with demersal and pelagic fishing gears, stomach sampling)

WORK AT SEA, AREA OF INVESTIGATION:

Scientific work on Dana covered intensive fisheries investigations and a sampling of ichthyoplankton generally along five transects around the Doggerbank and Lile Fiskebanke as well as along the 50m depth line in the central North Sea (see also Fig. 1):

“Lile Fiskebanke”; along the 50 m depth line

1 st transect:		
From:	57° 10' N	006° 20' E
To:	56° 10' N	04° 30' E

Following the 50 m depth line

2 nd transect:		
From:	56° 10' N	04° 30' E
To:	55° 00' N	00° 00' E

Along the west flank of the Dogger Bank

3 rd transect:		
From:	55° 00' N	00° 00' E
To:	54° 00' N	02° 20' E

Along the southern border of the Dogger Bank

4 th transect:		
From:	54° 00' N	02° 20' E
To:	56° 00' N	006° 20' E

Back to the “Lile Fiskebanke”

5 th transect:		
From:	56° 00' N	006° 20' E
To:	57° 10' N	006° 20' E

During the transects, CTD, hydro-acoustic echointegration as well as different types of trawls and nets (demersal and pelagic EXPO trawls, Mik-Trawl, Bongo) were used in alternation. A detailed station list can be found in the annex.

With hydroacoustic echointegration a quantitative overview of fish distributions and aggregations along the transects could be achieved. CTD profiles provided an overview on the hydrographic conditions. From ichthyoplankton samples (MIK-Trawl) an overview on the species composition and density of fish larvae were derived. Bongo samples were used to determine the density of sprat spawn. An overview on abundances of adult fish species at the different trawl stations were derived from sorting, counting, measuring and weighting of EXPO trawl catches. For every predator (cod, whiting, grey

gurnard, horse mackerel, mackerel, herring, sprat) and predator length class (0-10 cm; 10- 15 cm, 15- 20 cm, 20- 25 cm, 25-30 cm, 30- 40 cm, 40 – 50 cm, above 50) at least 10 stomach samples were taken per haul whenever possible to quantify the feeding interactions along the transects.

Due to nice weather conditions, the field sampling could be conducted as intended without larger problems.

Generally the following trawls, nets and devices were used during the cruise

- CTD, (with chlorophyll sensor and water bottle rosette)
- Mik-Trawl (1.6mm mesh size, 2m diameter, undulating)
- Bongo (325 μ , 60 cm diameter, undulating)
- EXPO (16mm in the cod end, pelagic and demersal)
- Hydroacoustics (Simrad EK 600)

In total, the activities at 282 stations can be summarised as follows:

Device		Hauls
BONGO	Bongo net	25
CTD	CTD Sea Bird SBE 911	91
EXPO	EXPO	75
MIK	MIK	91

In addition 3008 stomachs were sampled. 2011 Grey gurnard stomachs, 311 haddock stomachs, 125 mackerel stomachs and 561 whiting stomachs.

A detailed compilation of station data is summarised in the station list in the annex.

Alexander Kempf

Hamburg, July.2006

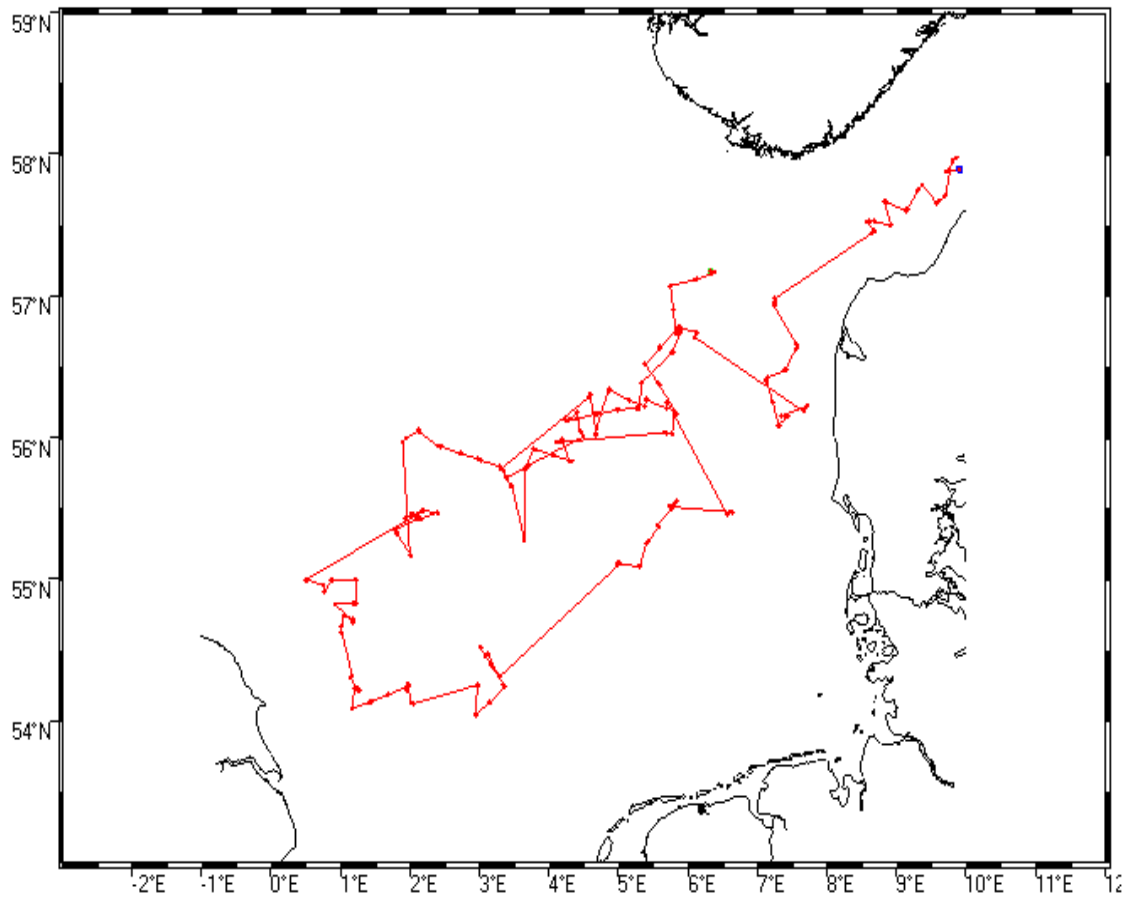


Fig. 1. Sampling area and position of station transects.

Annex:

Station list

DANA06 (06.06.2006 - 21.06.2006)

Stat.Nr.	device	Position		time		depth (m)
		start	end	from (UTC)	till (UTC)	
1	CTDS911+	57°10.14' N 6°19.94' E	57°10.17' N 6°19.95' E	07.06.2006 04:05	07.06.2006 04:13	68.9
2	BONGO2	57°9.998' N 6°19.71' E	57°9.331' N 6°19.36' E	07.06.2006 04:54	07.06.2006 05:09	68.8
3	MIK	57°9.51' N 6°21.42' E	57°8.873' N 6°24.60' E	07.06.2006 07:19	07.06.2006 07:49	66.8
4	EXPO	57°9.893' N 6°23.30' E	57°9.567' N 6°26.54' E	07.06.2006 08:54	07.06.2006 09:24	67.1
5	CTDS911+	57°7.048' N 6°8.272' E	57°7.076' N 6°8.406' E	07.06.2006 10:39	07.06.2006 10:50	55.9
6	BONGO2	57°7.143' N 6°8.28' E	57°6.996' N 6°6.98' E	07.06.2006 11:04	07.06.2006 11:20	55.8
7	MIK	57°6.822' N 6°5.706' E	57°6.685' N 6°4.709' E	07.06.2006 11:35	07.06.2006 11:47	49.5
8	CTDS911+	57°4.036' N 5°44.94' E	57°4.05' N 5°44.97' E	07.06.2006 12:53	07.06.2006 12:59	47.8
9	BONGO2	57°3.972' N 5°44.88' E	57°3.299' N 5°44.97' E	07.06.2006 13:04	07.06.2006 13:18	47.5
10	CTDS911+	56°54.16' N 5°47.43' E	56°54.20' N 5°47.49' E	07.06.2006 14:20	07.06.2006 14:28	55.5
11	BONGO2	56°54.08' N 5°47.42' E	56°53.27' N 5°47.65' E	07.06.2006 14:33	07.06.2006 14:49	56.3
12	CTDS911+	56°44.06' N 5°49.81' E	56°44.09' N 5°49.92' E	07.06.2006 16:03	07.06.2006 16:10	56.6
13	BONGO2	56°44.12' N 5°49.78' E	56°44.12' N 5°48.74' E	07.06.2006 16:15	07.06.2006 16:27	56.6
14	EXPO	56°44.34' N 5°49.96' E	56°44.67' N 5°53.29' E	07.06.2006 16:50	07.06.2006 17:20	56.5
15	MIK	56°44.62' N 5°53.29' E	56°44.74' N 5°51.07' E	07.06.2006 17:38	07.06.2006 18:03	55.9
16	CTDS911+	56°36.01' N 5°46.79' E	56°35.99' N 5°46.81' E	07.06.2006 18:56	07.06.2006 19:05	53.6
17	MIK	56°35.96' N 5°46.60' E	56°35.74' N 5°44.65' E	07.06.2006 19:10	07.06.2006 19:34	53.6
18	EXPO	56°35.88' N 5°45.74' E	56°36.18' N 5°48.83' E	07.06.2006 19:45	07.06.2006 20:24	53.9
19	EXPO	56°36.05' N 5°46.96' E	56°36.06' N 5°43.70' E	07.06.2006 20:57	07.06.2006 21:27	53.6
20	CTDS911+	56°23.05' N 5°20.11' E	56°23.03' N 5°20.17' E	08.06.2006 04:03	08.06.2006 04:10	49.9
21	MIK	56°23.05' N 5°19.93' E	56°23.15' N 5°18.40' E	08.06.2006 04:15	08.06.2006 04:35	50.1
22	EXPO	56°22.98' N 5°20.2' E	56°22.54' N 5°23.48' E	08.06.2006 04:58	08.06.2006 05:28	49.6
23	CTDS911+	56°11.94' N 5°18.01' E	56°11.95' N 5°18.08' E	08.06.2006 06:41	08.06.2006 06:47	49.9
24	MIK	56°11.93' N 5°17.78' E	56°11.96' N 5°15.68' E	08.06.2006 06:54	08.06.2006 07:18	50
25	EXPO	56°11.90' N 5°17.48' E	56°11.92' N 5°20.89' E	08.06.2006 07:41	08.06.2006 08:11	49.9
26	EXPO	56°12.34' N 5°16.09' E	56°12.49' N 5°13.05' E	08.06.2006 08:56	08.06.2006 09:26	51.1
27	CTDS911+	56°11.67' N 4°59.85' E	56°11.71' N 4°59.72' E	08.06.2006 10:36	08.06.2006 10:46	52.4
28	MIK	56°11.73' N	56°11.72' N	08.06.2006 10:52	08.06.2006 11:13	52.8

		4°59.16' E	4°57.16' E			
29	CTDS911+	56°9.756' N 4°42.1' E	56°9.812' N 4°41.97' E	08.06.2006 12:01	08.06.2006 12:10	53.4
30	BONGO2	56°9.851' N 4°41.83' E	56°9.871' N 4°40.57' E	08.06.2006 12:15	08.06.2006 12:28	53.4
31	MIK	56°9.875' N 4°39.96' E	56°9.875' N 4°38.27' E	08.06.2006 12:34	08.06.2006 12:53	54.1
32	CTDS911+	56°7.805' N 4°24.34' E	56°7.832' N 4°24.27' E	08.06.2006 13:40	08.06.2006 13:47	59.6
33	MIK	56°7.834' N 4°24.03' E	56°0.776' N 4°22.28' E	08.06.2006 13:52	08.06.2006 14:12	59.7
34	MIK	56°7.083' N 4°16.86' E	56°7.2' N 4°15.15' E	08.06.2006 16:08	08.06.2006 16:31	59.7
35	CTDS911+	56°7.224' N 4°14.88' E	56°7.248' N 4°14.93' E	08.06.2006 16:38	08.06.2006 16:45	60.3
36	EXPO	56°7.408' N 4°17.49' E	56°7.781' N 4°21.23' E	08.06.2006 17:10	08.06.2006 17:45	59.5
37	EXPO	56°10.51' N 4°24.23' E	56°9.575' N 4°26.81' E	08.06.2006 18:41	08.06.2006 19:11	60.4
38	CTDS911+	56°2.892' N 4°27.07' E	56°2.875' N 4°27.09' E	08.06.2006 20:09	08.06.2006 20:14	51.7
39	EXPO	56°1.918' N 4°28.11' E	56°0.293' N 4°29.74' E	08.06.2006 20:35	08.06.2006 21:05	50.3
40	MIK	56°0.158' N 4°29.70' E	56°0.943' N 4°29.00' E	08.06.2006 21:27	08.06.2006 21:46	48.2
41	CTDS911+	55°48.04' N 3°42.11' E	55°48.03' N 3°42.08' E	09.06.2006 04:09	09.06.2006 04:14	50.8
42	MIK	55°48.01' N 3°42.41' E	55°47.95' N 3°44.43' E	09.08.2006 04:21	09.08.2006 04:42	50.6
43	EXPO	55°48.09' N 3°42.04' E	55°48.23' N 3°39.28' E	09.06.2006 05:22	09.06.2006 05:52	50.7
44	EXPO	55°47.64' N 3°41.28' E	55°47.05' N 3°42.54' E	09.06.2006 06:42	09.06.2006 06:56	50.3
45	CTDS911+	55°42.89' N 3°23.01' E	55°42.87' N 3°22.96' E	09.06.2006 08:14	09.06.2006 08:22	48.5
46	EXPO	55°45.78' N 3°20.56' E	55°47.32' N 3°19.39' E	09.08.2006 09:27	09.06.2006 09:57	53.8
47	MIK	55°47.61' N 3°18.10' E	55°47.99' N 3°16.10' E	09.06.2006 10:25	09.06.2006 10:48	57.8
48	CTDS911+	55°50.31' N 3°1.334' E	55°50.25' N 3°1.173' E	09.06.2006 11:35	09.06.2006 11:45	73.7
49	BONGO2	55°50.26' N 3°0.954' E	55°50.62' N 2°59.18' E	09.06.2006 11:50	09.06.2006 12:10	73.7
50	MIK	55°50.73' N 2°58.67' E	55°51.21' N 2°56.46' E	09.06.2006 12:16	09.06.2006 12:42	73.9
51	CTDS911+	55°53.17' N 2°44.27' E	55°53.16' N 2°44.12' E	09.06.2006 13:25	09.06.2006 13:34	80
52	MIK	55°53.23' N 2°43.70' E	55°53.73' N 2°41.32' E	09.06.2006 13:40	09.06.2006 14:09	80.1
53	CTDS911+	55°55.93' N 2°27.10' E	55°55.94' N 2°27.00' E	09.06.2006 14:59	09.06.2006 15:08	78.9
54	MIK	55°55.96' N 2°26.74' E	55°56.74' N 2°24.65' E	09.06.2006 15:13	09.06.2006 15:38	79.2
55	EXPO	55°56.11' N 2°24.25' E	55°56.40' N 2°21.52' E	09.06.2006 16:27	09.06.2006 16:57	81.2
56	CTDS911+	56°2.832' N 2°7.199' E	56°2.925' N 2°7.146' E	09.06.2006 18:08	09.06.2006 18:15	82.9
57	MIK	56°2.84' N 2°7.167' E	56°1.827' N 2°8.026' E	09.06.2006 18:19	09.06.2006 18:45	82.8
58	EXPO	56°2.81' N 2°7.624' E	56°4.488' N 2°7.039' E	09.06.2006 19:11	09.06.2006 19:41	82.7
59	EXPO	55°59.37' N 1°56.59' E	55°58.54' N 1°54.18' E	09.06.2006 20:46	09.06.2006 21:16	86.1
60	CTDS911+	55°58.25' N 1°53.76' E	55°58.20' N 1°53.71' E	09.06.2006 21:36	09.06.2006 21:43	84.6
61	CTDS911+	55°10.04' N	55°10.03' N	10.06.2006 04:02	10.06.2006 04:07	32.2

		2°0.051' E	1°59.95' E			
62	MIK	55°9.648' N 2°1.422' E	55°9.42' N 2°2.288' E	10.06.2006 04:26	10.06.2006 04:37	32.8
63	EXPO	55°9.946' N 2°1.124' E	55°11.07' N 1°58.97' E	10.06.2006 05:02	10.06.2006 05:32	31.7
64	CTDS911+	55°19.99' N 1°47.83' E	55°20.01' N 1°47.84' E	10.06.2006 06:44	10.06.2006 06:49	44
65	BONGO2	55°19.66' N 1°48.32' E	55°19.36' N 1°48.72' E	10.06.2006 07:01	10.06.2006 07:10	42.8
66	MIK	55°19.09' N 1°49.09' E	55°18.29' N 1°50.18' E	10.06.2006 07:18	10.06.2006 07:41	40.9
67	EXPO	55°20.96' N 1°47.14' E	55°22.3' N 1°50.80' E	10.06.2006 08:19	10.06.2006 09:04	46.9
68	CTDS911+	55°25.25' N 2°6.564' E	55°25.23' N 2°6.498' E	10.06.2006 10:27	10.06.2006 10:31	44.8
69	MIK	55°25.25' N 2°6.713' E	55°25.66' N 2°8.414' E	10.06.2006 10:37	10.06.2006 10:59	44.8
70	CTDS911+	55°28.04' N 2°23.96' E	55°27.98' N 2°23.92' E	10.06.2006 11:52	10.06.2006 11:56	43.9
71	MIK	55°27.99' N 2°24.09' E	55°28.32' N 2°25.67' E	10.06.2006 12:03	10.06.2006 12:23	44
72	CTDS911+	55°29.04' N 2°11.46' E	55°29' N 2°11.41' E	10.06.2006 13:26	10.06.2006 13:30	56.2
73	MIK	55°28.82' N 2°10.81' E	55°28.60' N 2°9.249' E	10.06.2006 13:41	10.06.2006 14:00	55.7
74	CTDS911+	55°25.60' N 1°56.47' E	55°25.57' N 1°56.41' E	10.06.2006 14:55	10.06.2006 15:00	53.1
75	MIK	55°25.44' N 1°56.13' E	55°25.15' N 1°54.59' E	10.06.2006 15:06	10.06.2006 15:26	52.9
76	CTDS911+	55°27.23' N 2°2.478' E	55°27.19' N 2°2.386' E	10.06.2006 16:06	10.06.2006 16:12	53.8
77	MIK	55°27.11' N 2°2.587' E	55°26.81' N 2°4.04' E	10.06.2006 16:17	10.06.2006 16:35	53.2
78	EXPO	55°27.18' N 2°2.805' E	55°28.06' N 2°0.164' E	10.06.2006 16:57	10.06.2006 17:27	53.2
79	EXPO	55°27.77' N 2°1.207' E	55°26.81' N 2°3.7' E	10.06.2006 18:05	10.06.2006 18:35	57.2
80	EXPO	55°25.33' N 2°5.498' E	55°23.87' N 2°6.756' E	10.06.2006 19:14	10.06.2006 19:44	45.4
81	EXPO	55°25.28' N 2°9.163' E	55°27.02' N 2°7.54' E	10.06.2006 20:35	10.06.2006 21:05	43.9
82	MIK	55°27.32' N 2°6.47' E	55°27.5' N 2°5.176' E	10.06.2006 21:31	10.06.2006 21:47	51
83	MIK	54°59.69' N 0°30.04' E	54°58.97' N 0°32.04' E	11.06.2006 04:10	11.06.2006 04:34	75.1
84	EXPO	54°59.58' N 0°30.98' E	55°0.911' N 0°29.35' E	11.06.2006 04:01	11.06.2006 04:31	72.4
85	MIK	54°57.43' N 0°45.38' E	54°57.22' N 0°47.47' E	11.06.2006 06:45	11.06.2006 07:10	70.2
86	EXPO	54°54.65' N 0°46.35' E	54°58.59' N 0°43.66' E	11.06.2006 07:30	11.06.2006 08:00	70.9
87	EXPO	54°59.41' N 0°52.51' E	54°59.59' N 0°55.50' E	11.06.2006 09:04	11.06.2006 09:34	64.8
88	MIK	54°59.54' N 1°13.17' E	54°59.13' N 1°14.65' E	11.06.2006 10:53	11.06.2006 11:13	49.5
89	CTDS911+	54°49.67' N 1°13.10' E	54°49.65' N 1°13.04' E	11.06.2006 12:13	11.06.2006 12:17	44
90	BONGO2	54°49.64' N 1°12.48' E	54°49.72' N 1°11.77' E	11.06.2006 12:26	11.06.2006 12:34	41.9
91	MIK	54°49.76' N 1°11.35' E	54°49.88' N 1°10.10' E	11.06.2006 12:39	11.06.2006 12:53	42.4
92	CTDS911+	54°49.49' N 0°55.56' E	54°49.44' N 0°55.44' E	11.06.2006 13:40	11.06.2006 13:50	64.5
93	MIK	54°49.33' N 0°55.53' E	54°48.57' N 0°56.82' E	11.06.2006 13:56	11.06.2006 14:16	64.6
94	CTDS911+	54°41.96' N	54°41.84' N	11.06.2006 15:13	11.06.2006 15:20	47.4

		1°10.76' E	1°10.80' E			
95	MIK	54°41.67' N 1°10.95' E	54°40.84' N 1°12.07' E	11.06.2006 15:25	11.06.2006 15:42	47.7
96	EXPO	54°43.02' N 1°10.64' E	54°44.47' N 1°10.37' E	11.06.2006 16:19	11.06.2006 16:49	46.6
97	CTDS911+	54°44.50' N 1°3.169' E	54°44.43' N 1°3.219' E	11.06.2006 17:31	11.06.2006 17:39	53.5
98	MIK	54°44.3' N 1°3.179' E	54°43.49' N 1°2.339' E	11.06.2006 17:45	11.06.2006 18:05	52.7
99	EXPO	54°44.55' N 1°2.66' E	54°46.39' N 1°3.225' E	11.06.2006 18:35	11.06.2006 19:05	52.9
100	EXPO	54°37.24' N 1°0.58' E	54°39.25' N 1°0.474' E	11.06.2006 20:36	11.06.2006 21:06	45.6
101	CTDS911+	54°39.77' N 1°0.283' E	54°39.92' N 1°0.191' E	11.06.2006 21:26	11.06.2006 21:33	50.9
102	MIK	54°39.84' N 1°0.109' E	54°39.28' N 0°59.96' E	11.06.2006 21:38	11.06.2006 21:54	51.1
103	CTDS911+	54°18.87' N 1°10.15' E	54°18.84' N 1°10.17' E	12.06.2006 04:02	12.06.2006 04:08	37.9
104	MIK	54°18.65' N 1°10.11' E	54°17.90' N 1°9.955' E	12.06.2006 04:14	12.06.2006 04:27	37.5
105	EXPO	54°17.95' N 1°8.725' E	54°18.52' N 1°6.716' E	12.06.2006 04:47	12.06.2006 05:17	46.8
106	CTDS911+	54°14.02' N 1°14.34' E	54°13.99' N 1°14.47' E	12.06.2006 06:09	12.06.2006 06:16	58.1
107	MIK	54°13.80' N 1°14.70' E	54°12.80' N 1°16.34' E	12.06.2006 06:23	12.06.2006 06:46	58.1
108	EXPO	54°12.80' N 1°15.83' E	54°13.38' N 1°13.46' E	12.06.2006 07:08	12.06.2006 07:38	58.9
109	EXPO	54°13.81' N 1°12.29' E	54°14.54' N 1°9.585' E	12.06.2006 08:13	12.06.2006 08:43	56.7
110	CTDS911+	54°5.06' N 1°9.958' E	54°5.118' N 1°9.892' E	12.06.2006 10:08	12.06.2006 10:16	47.9
111	MIK	54°5.205' N 1°10.25' E	54°5.589' N 1°11.74' E	12.06.2006 10:24	12.06.2006 10:44	46.6
112	CTDS911+	54°7.826' N 1°26.30' E	54°7.842' N 1°26.10' E	12.06.2006 11:32	12.06.2006 11:38	70.5
113	BONGO2	54°7.899' N 1°26.13' E	54°8.11' N 1°27.12' E	12.06.2006 11:49	12.06.2006 12:09	74.5
114	MIK	54°8.157' N 1°27.37' E	54°8.434' N 1°28.51' E	12.06.2006 12:11	12.06.2006 12:33	86.2
115	CTDS911+	54°10.87' N 1°41.45' E	54°10.94' N 1°41.28' E	12.06.2006 13:21	12.06.2006 13:27	41.8
116	MIK	54°10.96' N 1°41.32' E	54°11.31' N 1°42.44' E	12.06.2006 13:32	12.06.2006 13:48	42.2
117	CTDS911+	54°14.94' N 1°59.81' E	54°14.99' N 1°59.63' E	12.06.2006 14:49	12.06.2006 14:55	40.4
118	MIK	54°14.94' N 1°59.40' E	54°14.64' N 1°58.54' E	12.06.2006 14:59	12.06.2006 15:11	40.8
119	MIK	54°13.20' N 1°56.38' E	54°12.11' N 1°55.43' E	12.06.2006 15:43	12.06.2006 16:06	39.8
120	EXPO	54°12.40' N 1°57.51' E	54°13.10' N 1°55.11' E	12.06.2006 16:41	12.06.2006 17:11	46.8
121	EXPO	54°15.34' N 1°58.34' E	54°15.86' N 1°56.09' E	12.06.2006 18:06	12.06.2006 18:36	39
122	CTDS911+	54°7.559' N 2°0.728' E	54°7.61' N 2°0.911' E	12.06.2006 19:41	12.06.2006 19:50	63.1
123	MIK	54°7.524' N 2°1.189' E	54°7' N 2°4.234' E	12.06.2006 19:55	12.06.2006 20:24	63.9
124	EXPO	54°7.177' N 2°3.149' E	54°7.46' N 2°0.565' E	12.06.2006 20:49	12.06.2006 21:19	65.4
125	CTDS911+	54°15.05' N 2°57.88' E	54°15.06' N 2°57.89' E	13.06.2006 04:08	13.06.2006 04:13	55.7
126	MIK	54°15.03' N 2°57.73' E	54°14.81' N 2°55.77' E	13.06.2006 04:17	13.06.2006 04:39	55.8
127	EXPO	54°14.79' N	54°15.25' N	13.06.2006 05:23	13.06.2006 05:53	54.2

		2°58.56' E	3°1.721' E				
128	CTDS911+	54°2.638' N 2°56.24' E	54°2.585' N 2°56.37' E	13.06.2006 07:24	13.06.2006 07:30	45.2	
129	MIK	54°2.515' N 2°56.62' E	54°2.12' N 2°58.05' E	13.06.2006 07:34	13.06.2006 07:50	44.9	
130	EXPO	54°2.503' N 2°57.07' E	54°3.371' N 2°54.94' E	13.06.2006 08:15	13.06.2006 08:46	44.5	
131	CTDS911+	54°7.869' N 3°9.043' E	54°7.818' N 3°9.123' E	13.06.2006 10:02	13.06.2006 10:06	40.2	
132	MIK	54°7.821' N 3°9.449' E	54°8.204' N 3°10.84' E	13.06.2006 10:12	13.06.2006 10:29	39.5	
133	CTDS911+	54°14.79' N 3°21.89' E	54°14.71' N 3°21.87' E	13.06.2006 11:19	13.06.2006 11:26	44.2	
134	BONGO2	54°14.79' N 3°21.65' E	54°15.14' N 3°21.15' E	13.06.2006 11:32	13.06.2006 11:42	43.8	
135	MIK	54°15.31' N 3°20.90' E	54°15.86' N 3°20.06' E	13.06.2006 11:46	13.06.2006 12:00	42.1	
136	CTDS911+	54°22.99' N 3°10.92' E	54°22.99' N 3°10.86' E	13.06.2006 12:52	13.06.2006 12:57	41.5	
137	BONGO2	54°23.06' N 3°10.80' E	54°23.47' N 3°10.24' E	13.06.2006 13:02	13.06.2006 13:11	40.5	
138	MIK	54°23.69' N 3°9.934' E	54°24.23' N 3°9.174' E	13.06.2006 13:17	13.06.2006 13:29	38	
139	CTDS911+	54°30.93' N 3°0.895' E	54°30.94' N 3°0.833' E	13.06.2006 14:24	13.06.2006 14:27	36.1	
140	MIK	54°30.99' N 3°0.945' E	54°31.22' N 3°1.681' E	13.06.2006 14:33	13.06.2006 14:45	36.1	
141	EXPO	54°27.43' N 3°5.213' E	54°26.04' N 3°7.3' E	13.06.2006 16:21	13.06.2006 16:51	38.7	
142	EXPO	54°28.20' N 3°7.553' E	54°28.21' N 3°3.648' E	13.06.2006 17:46	13.06.2006 18:26	39.9	
143	CTDS911+	54°18.93' N 3°16.66' E	54°18.87' N 3°16.83' E	13.06.2006 19:50	13.06.2006 19:56	45.7	
144	MIK	54°18.90' N 3°16.87' E	54°19.14' N 3°16.10' E	13.06.2006 20:00	13.06.2006 20:15	46.1	
145	EXPO	54°18.92' N 3°18.38' E	54°18.37' N 3°24.09' E	13.06.2006 20:39	13.06.2006 21:26	45.3	
146	CTDS911+	55°6.42' N 5°1.434' E	55°6.415' N 5°1.34' E	14.06.2006 04:04	14.06.2006 04:08	38.9	
147	BONGO2	55°6.474' N 5°1.212' E	55°6.8' N 5°0.396' E	14.06.2006 04:13	14.06.2006 04:24	38.8	
148	MIK	55°6.989' N 4°59.90' E	55°7.375' N 4°58.84' E	14.06.2006 04:29	14.06.2006 04:43	38.6	
149	EXPO	55°6.508' N 4°59.35' E	55°5.032' N 5°0.975' E	14.06.2006 05:09	14.06.2006 05:39	38.5	
150	CTDS911+	55°5.142' N 5°18.38' E	55°5.135' N 5°18.44' E	14.06.2006 06:51	14.06.2006 06:56	41.5	
151	BONGO2	55°5.193' N 5°18.41' E	55°5.558' N 5°17.74' E	14.06.2006 07:00	14.06.2006 07:11	41.6	
152	MIK	55°5.703' N 5°17.48' E	55°6.336' N 5°16.39' E	14.06.2006 07:15	14.06.2006 07:15	41.4	
153	EXPO	55°5.6' N 5°17.40' E	55°4.21' N 5°19.65' E	14.06.2006 07:54	14.06.2006 08:24	41.4	
154	EXPO	55°5.068' N 5°18.61' E	55°6.306' N 5°16.66' E	14.06.2006 09:03	14.06.2006 09:33	41.6	
155	CTDS911+	55°15.04' N 5°24.23' E	55°15.00' N 5°24.32' E	14.06.2006 10:50	14.06.2006 10:54	41.8	
156	BONGO2	55°15.09' N 5°24.46' E	55°15.49' N 5°25.13' E	14.06.2006 10:58	14.06.2006 11:09	41.9	
157	MIK	55°15.68' N 5°25.48' E	55°16.17' N 5°26.35' E	14.06.2006 11:15	14.06.2006 11:29	42.3	
158	CTDS911+	55°21.94' N 5°34.92' E	55°21.88' N 5°34.97' E	14.06.2006 12:17	14.06.2006 12:23	48.3	
159	BONGO2	55°21.95' N 5°35.03' E	55°22.57' N 5°34.36' E	14.06.2006 12:27	14.06.2006 12:41	48.2	
160	MIK	55°22.69' N	55°23.36' N	14.06.2006 12:44	14.06.2006 13:00	48.5	

		5°34.23' E	5°33.51' E				
161	CTDS911+	55°29.88' N 5°45.86' E	55°29.80' N 5°45.88' E	14.06.2006 13:58	14.06.2006 14:04	50.9	
162	BONGO2	55°29.86' N 5°45.71' E	55°30.06' N 5°44.21' E	14.06.2006 14:10	14.06.2006 14:24	51	
163	MIK	55°30.83' N 5°44.00' E	55°30.83' N 5°42.48' E	14.06.2006 14:27	14.06.2006 14:46	50.7	
164	CTDS911+	55°33.00' N 5°50.89' E	55°33.02' N 5°50.85' E	14.06.2006 15:22	14.06.2006 15:29	49.7	
165	BONGO2	55°33.05' N 5°50.66' E	55°32.68' N 5°49.53' E	14.06.2006 15:33	14.06.2006 15:47	49.6	
166	MIK	55°32.53' N 5°49.17' E	55°31.86' N 5°47.50' E	14.06.2006 15:52	14.06.2006 16:13	49.5	
167	EXPO	55°30.49' N 5°46.89' E	55°28.64' N 5°46.36' E	14.06.2006 16:36	14.06.2006 17:06	50.3	
168	CTDS911+	55°28.30' N 6°38.00' E	55°28.29' N 6°38.08' E	14.06.2006 19:58	14.06.2006 20:03	39.9	
169	MIK	55°28.31' N 6°37.96' E	55°28.43' N 6°36.42' E	14.06.2006 20:08	14.06.2006 20:25	38.7	
170	BONGO2	55°28.47' N 6°35.83' E	55°28.53' N 6°34.79' E	14.06.2006 20:31	14.06.2006 20:42	38.8	
171	EXPO	55°27.1' N 6°34.36' E	55°24.96' N 6°34.20' E	14.06.2006 21:05	14.06.2006 21:35	40.1	
172	CTDS911+	56°15.05' N 5°42.05' E	56°15.01' N 5°42.08' E	15.06.2006 04:10	15.06.2006 04:18	51.5	
173	MIK	56°14.67' N 5°41.93' E	56°13.71' N 5°41.27' E	15.06.2006 04:27	15.06.2006 04:47	51.4	
174	EXPO	56°12.22' N 5°41.39' E	56°10.31' N 5°40.52' E	15.06.2006 05:09	15.06.2006 05:39	53.3	
175	CTDS911+	56°15.93' N 5°24.15' E	56°15.91' N 5°24.21' E	15.06.2006 06:58	15.06.2006 07:05	55.5	
176	MIK	56°16.06' N 5°24.37' E	56°16.92' N 5°25.22' E	15.06.2006 07:11	15.06.2006 07:31	55.3	
177	EXPO	56°16.09' N 5°24.73' E	56°14.51' N 5°23.10' E	15.06.2006 07:52	15.06.2006 08:22	55.9	
178	EXPO	56°13.09' N 5°22.89' E	56°11.18' N 5°23.26' E	15.06.2006 09:05	15.06.2006 09:35	53.3	
179	CTDS911+	56°15.54' N 5°9.245' E	56°15.48' N 5°9.34' E	15.06.2006 10:43	15.06.2006 10:50	54.7	
180	MIK	56°15.77' N 5°8.73' E	56°16.11' N 5°7.212' E	15.06.2006 11:03	15.06.2006 11:22	53.8	
181	CTDS911+	56°20.08' N 4°52.39' E	56°20.03' N 4°52.49' E	15.06.2006 12:17	15.06.2006 12:26	59.9	
182	BONGO2	56°20.08' N 4°52.41' E	56°19.41' N 4°51.60' E	15.06.2006 12:31	15.06.2006 12:47	59.5	
183	MIK	56°19.21' N 4°51.36' E	56°18.37' N 4°50.39' E	15.06.2006 12:52	15.06.2006 13:12	60.2	
184	CTDS911+	56°10.1' N 4°44.88' E	56°9.984' N 4°44.99' E	15.06.2006 13:58	15.06.2006 14:08	52.9	
185	MIK	56°9.965' N 4°44.98' E	56°9.161' N 4°44.29' E	15.06.2006 14:08	15.06.2006 14:26	53	
186	CTDS911+	56°1.116' N 4°40.08' E	56°1.082' N 4°40.12' E	15.06.2006 15:13	15.06.2006 15:18	49.4	
187	MIK	56°0.96' N 4°40.21' E	56°0.248' N 4°39.55' E	15.06.2006 15:24	15.06.2006 15:41	50.4	
188	EXPO	56°1.637' N 4°41.26' E	56°3.152' N 4°43.30' E	15.06.2006 16:19	15.06.2006 16:49	50.1	
189	CTDS911+	56°17.93' N 4°35.48' E	56°17.87' N 4°35.42' E	15.06.2006 18:33	15.06.2006 18:40	60.5	
190	MIK	56°17.96' N 4°35.58' E	56°18.81' N 4°36.42' E	15.06.2006 18:46	15.06.2006 19:07	60.1	
191	EXPO	56°17.85' N 4°35.63' E	56°16.23' N 4°34.15' E	15.06.2006 19:31	15.06.2006 20:01	60.7	
192	EXPO	56°17.06' N 4°35.02' E	56°20.10' N 4°37.66' E	15.06.2006 20:39	15.06.2006 21:29	63.9	
193	CTDS911+	55°46.77' N	55°46.76' N	16.06.2006 04:00	16.06.2006 04:09	56.8	

		3°19.01' E	3°18.99' E			
194	MIK	55°46.86' N 3°19.03' E	55°47.69' N 3°19.34' E	16.06.2006 04:13	16.06.2006 04:32	56.4
195	EXPO	55°46.57' N 3°18.84' E	55°44.65' N 3°18.37' E	16.06.2006 04:59	16.06.2006 05:29	56.5
196	EXPO	55°46.64' N 3°18.97' E	55°48.33' N 3°19.60' E	16.06.2006 06:16	16.06.2006 06:46	56.8
197	CTDS911+	55°39.47' N 3°26.94' E	55°39.43' N 3°27.05' E	16.06.2006 08:04	16.06.2006 08:10	44.7
198	MIK	55°39.49' N 3°27.11' E	55°40.31' N 3°27.11' E	16.06.2006 08:14	16.06.2006 08:31	44.9
199	EXPO	55°39.58' N 3°28.26' E	55°37.94' N 3°30.06' E	16.06.2006 08:54	16.06.2006 09:24	44.8
200	CTDS911+	55°16.28' N 3°38.90' E	55°46.22' N 3°39.06' E	16.06.2006 10:36	16.06.2006 10:42	51.2
201	MIK	55°46.35' N 3°39.36' E	55°47.00' N 3°40.45' E	16.06.2006 10:48	16.06.2006 11:05	50.9
202	CTDS911+	55°54.91' N 3°46.76' E	55°54.85' N 3°46.89' E	16.06.2006 11:54	16.06.2006 12:02	55.6
203	BONGO2	55°54.84' N 3°47.12' E	55°54.77' N 3°48.55' E	16.06.2006 12:06	16.06.2006 12:21	55.9
204	MIK	55°54.74' N 3°48.98' E	55°54.56' N 3°50.52' E	16.06.2006 12:25	16.06.2006 12:42	56.2
205	CTDS911+	55°52.42' N 4°3.703' E	55°52.34' N 4°3.774' E	16.06.2006 13:27	16.06.2006 13:35	53.8
206	MIK	55°52.34' N 4°4.056' E	55°52.24' N 4°5.583' E	16.06.2006 13:39	16.06.2006 13:57	53.4
207	CTDS911+	55°49.89' N 4°19.78' E	55°49.82' N 4°19.80' E	16.06.2006 14:44	16.06.2006 14:50	44.5
208	MIK	55°49.83' N 4°20.00' E	55°49.97' N 4°21.00' E	16.06.2006 14:55	16.06.2006 15:07	44.3
209	EXPO	55°49.99' N 4°17.72' E	55°50.00' N 4°14.17' E	16.06.2006 16:19	16.06.2006 16:49	44.3
210	CTDS911+	55°58.94' N 4°11.51' E	55°58.91' N 4°11.48' E	16.06.2006 18:00	16.06.2006 18:05	54.1
211	EXPO	55°58.43' N 4°9.624' E	55°57.72' N 4°6.364' E	16.06.2006 18:27	16.06.2006 18:57	54.4
212	MIK	55°57.74' N 4°6.1' E	55°58.13' N 4°7.592' E	16.06.2006 19:20	16.06.2006 19:39	53.5
213	CTDS911+	56°1.943' N 5°39.92' E	56°1.959' N 5°40.00' E	17.06.2006 02:03	17.06.2006 02:07	52.5
214	EXPO	56°1.683' N 5°42.21' E	56°1.073' N 5°45.47' E	17.06.2006 02:31	17.06.2006 03:02	51.8
215	MIK	56°1.282' N 5°46.39' E	56°1.798' N 5°47.37' E	17.06.2006 03:35	17.06.2006 03:52	50.3
216	CTDS911+	56°10.51' N 5°48.15' E	56°10.43' N 5°48.26' E	17.06.2006 04:46	17.06.2006 04:58	50.2
217	MIK	56°10.52' N 5°48.32' E	56°11.39' N 5°48.41' E	17.06.2006 05:02	17.06.2006 05:20	50.2
218	EXPO	56°10.54' N 5°49.71' E	56°8.903' N 5°51.10' E	17.06.2006 05:46	17.06.2006 06:16	50
219	EXPO	56°9.946' N 5°50.40' E	56°11.87' N 5°49.41' E	17.06.2006 07:07	17.06.2006 07:37	49.9
220	CTDS911+	56°21.96' N 5°35.70' E	56°21.96' N 5°35.74' E	17.06.2006 09:02	17.06.2006 09:08	43.6
221	MIK	56°22.07' N 5°35.52' E	56°22.61' N 5°34.82' E	17.06.2006 09:13	17.06.2006 09:27	44
222	BONGO2	56°23.01' N 5°34.29' E	56°23.42' N 5°33.77' E	17.06.2006 09:36	17.06.2006 09:47	47.2
223	CTDS911+	56°30.98' N 5°23.19' E	56°30.96' N 5°23.30' E	17.06.2006 10:39	17.06.2006 10:50	52
224	MIK	56°30.99' N 5°23.66' E	56°31.50' N 5°24.88' E	17.06.2006 10:56	17.06.2006 11:12	52.3
225	CTDS911+	56°37.96' N 5°35.93' E	56°38.00' N 5°35.97' E	17.06.2006 12:01	17.06.2006 12:08	56.1
226	MIK	56°38.17' N	56°38.67' N	17.06.2006 12:14	17.06.2006 12:31	56.2

		5°36.19' E	5°37.34' E				
227	CTDS911+	56°45.09' N 5°49.94' E	56°45.11' N 5°49.95' E	17.06.2006 13:27	17.06.2006 13:30	57.4	
228	MIK	56°45.27' N 5°49.89' E	56°46.28' N 5°49.47' E	17.06.2006 13:36	17.06.2006 13:58	58.1	
229	EXPO	56°46.38' N 5°51.79' E	56°46.22' N 5°55.15' E	17.06.2006 14:22	17.06.2006 14:52	56.6	
230	EXPO	56°46.43' N 5°53.64' E	56°46.69' N 5°50.08' E	17.06.2006 15:30	17.06.2006 16:00	54.5	
231	CTDS911+	56°44.40' N 6°7.739' E	56°44.43' N 6°7.751' E	17.06.2006 17:11	17.06.2006 17:18	50.1	
232	MIK	56°44.40' N 6°7.627' E	56°43.87' N 6°6.363' E	17.06.2006 17:22	17.06.2006 17:40	50.2	
233	EXPO	56°42.39' N 6°5.827' E	56°40.63' N 6°5.607' E	17.06.2006 18:05	17.06.2006 18:35	52.1	
234	CTDS911+	56°10.92' N 7°40.18' E	56°10.88' N 7°40.13' E	18.06.2006 02:03	18.06.2006 02:08	29.4	
235	EXPO	56°11.99' N 7°41.22' E	56°13.43' N 7°43.07' E	18.06.2006 02:33	18.06.2006 03:04	29.6	
236	MIK	56°13.48' N 7°43.44' E	56°13.75' N 7°42.86' E	18.06.2006 03:28	18.06.2006 03:37	26	
237	CTDS911+	56°8.873' N 7°20.87' E	56°8.894' N 7°20.93' E	18.06.2006 04:50	18.06.2006 04:58	28.6	
238	EXPO	56°8.941' N 7°23.59' E	56°9.176' N 7°27.03' E	18.06.2006 05:22	18.06.2006 05:52	27.3	
239	MIK	56°9.194' N 7°26.69' E	56°9.216' N 7°26.02' E	18.06.2006 06:22	18.06.2006 06:29	27.4	
240	CTDS911+	56°4.877' N 7°17.93' E	56°4.883' N 7°17.86' E	18.06.2006 07:17	18.06.2006 07:21	27.9	
241	MIK	56°5.095' N 7°18.70' E	56°5.395' N 7°19.09' E	18.06.2006 07:31	18.06.2006 07:39	28	
242	CTDS911+	56°15.01' N 7°13.27' E	56°15.06' N 7°13.22' E	18.06.2006 08:52	18.06.2006 08:57	30.9	
243	MIK	56°15.17' N 7°13.04' E	56°15.65' N 7°12.38' E	18.06.2006 09:01	18.06.2006 09:13	31.1	
244	CTDS911+	56°23.99' N 7°7.882' E	56°24.03' N 7°7.806' E	18.06.2006 10:05	18.06.2006 10:10	33.9	
245	MIK	56°24.58' N 7°7.929' E	56°25.07' N 7°8.384' E	18.06.2006 10:24	18.06.2006 10:36	33.5	
246	BONGO2	56°25.35' N 7°8.85' E	56°25.75' N 7°9.654' E	18.06.2006 10:43	18.06.2006 10:55	33.9	
247	CTDS911+	56°28.38' N 7°24.26' E	56°28.48' N 7°24.25' E	18.06.2006 11:44	18.06.2006 11:49	30.1	
248	MIK	56°28.66' N 7°24.32' E	56°29.25' N 7°25.12' E	18.06.2006 11:54	18.06.2006 12:09	32.3	
249	CTDS911+	56°37.38' N 7°33.05' E	56°37.45' N 7°33.01' E	18.06.2006 12:59	18.06.2006 13:03	29.8	
250	BONGO2	56°37.50' N 7°33.11' E	56°37.84' N 7°33.87' E	18.06.2006 13:09	18.06.2006 13:19	29.8	
251	MIK	56°37.97' N 7°34.11' E	56°38.58' N 7°35.28' E	18.06.2006 13:23	18.06.2006 13:41	31.7	
252	EXPO	56°39.55' N 7°33.55' E	56°41.40' N 7°33.79' E	18.06.2006 14:22	18.06.2006 14:53	33.7	
253	CTDS911+	56°55.38' N 7°14.95' E	56°55.39' N 7°14.96' E	18.06.2006 16:51	18.06.2006 16:56	32.2	
254	EXPO	56°56.39' N 7°14.94' E	56°58.33' N 7°14.64' E	18.06.2006 17:18	18.06.2006 17:48	32	
255	EXPO	56°56.99' N 7°14.97' E	56°58.33' N 7°15.01' E	18.06.2006 19:23	18.06.2006 19:43	31.7	
256	MIK	56°58.86' N 7°15.32' E	56°59.31' N 7°15.52' E	18.06.2006 20:06	18.06.2006 20:15	33.5	
257	CTDS911+	57°26.28' N 8°38.22' E	57°26.29' N 8°38.26' E	19.06.2006 02:26	19.06.2006 02:31	34.5	
258	MIK	57°26.34' N 8°38.18' E	57°26.85' N 8°37.49' E	19.06.2006 02:36	19.06.2006 02:49	34.6	
259	EXPO	57°27.48' N	57°28.82' N	19.06.2006 03:19	19.06.2006 03:49	35.6	

		8°41.44' E	8°44.61' E			
260	CTDS911+	57°31.48' N 8°34.55' E	57°31.57' N 8°34.77' E	19.06.2006 04:45	19.06.2006 04:54	71.3
261	EXPO	57°31.51' N 8°37.04' E	57°31.54' N 8°42.35' E	19.06.2006 05:15	19.06.2006 05:55	66.8
262	EXPO	57°31.57' N 8°41.24' E	57°31.64' N 8°37.39' E	19.06.2006 06:36	19.06.2006 07:16	64.3
263	MIK	57°31.77' N 8°36.53' E	57°31.67' N 8°34.89' E	19.06.2006 07:44	19.06.2006 08:09	69.2
264	CTDS911+	57°29.87' N 8°55.14' E	57°29.87' N 8°55.24' E	19.06.2006 09:11	19.06.2006 09:16	31
265	MIK	57°29.98' N 8°55.22' E	57°30.40' N 8°55.05' E	19.06.2006 09:20	19.06.2006 09:30	30.4
266	CTDS911+	57°39.92' N 8°49.98' E	57°39.99' N 8°50.22' E	19.06.2006 10:25	19.06.2006 10:36	96.3
267	MIK	57°39.92' N 8°50.32' E	57°38.71' N 8°52.77' E	19.06.2006 10:41	19.06.2006 11:15	96
268	CTDS911+	57°35.94' N 9°8.715' E	57°35.96' N 9°8.728' E	19.06.2006 12:03	19.06.2006 12:09	31.8
269	BONGO2	57°36.15' N 9°8.834' E	57°36.58' N 9°9.434' E	19.06.2006 12:14	19.06.2006 12:24	33.6
270	MIK	57°36.78' N 9°9.722' E	57°37.25' N 9°10.38' E	19.06.2006 12:29	19.06.2006 12:41	35.3
271	CTDS911+	57°44.82' N 9°18.92' E	57°44.91' N 9°18.92' E	19.06.2006 13:31	19.06.2006 13:36	43.1
272	MIK	57°45.16' N 9°19.00' E	57°46.13' N 9°19.49' E	19.06.2006 13:42	19.06.2006 14:01	47.1
273	EXPO	57°46.87' N 9°22.41' E	57°47.74' N 9°26.58' E	19.06.2006 14:25	19.06.2006 15:01	58.3
274	CTDS911+	57°39.26' N 9°35.02' E	57°39.26' N 9°35.01' E	19.06.2006 16:15	19.06.2006 16:20	43.1
275	EXPO	57°39.93' N 9°36.72' E	57°41.12' N 9°39.22' E	19.06.2006 16:39	19.06.2006 17:10	43.9
276	MIK	57°42.08' N 9°41.42' E	57°42.44' N 9°42.52' E	19.06.2006 17:56	19.06.2006 18:12	40.3
277	EXPO	57°42.56' N 9°42.38' E	57°40.94' N 9°38.84' E	19.06.2006 18:41	19.06.2006 19:21	39.5
278	CTDS911+	57°57.52' N 9°48.27' E	57°57.61' N 9°48.39' E	20.06.2006 06:06	20.06.2006 06:18	106.9
279	EXPO	57°58.40' N 9°52.04' E	57°59.07' N 9°55.58' E	20.06.2006 06:48	20.06.2006 07:18	99.2
280	CTDS911+	57°52.40' N 9°42.58' E	57°52.44' N 9°42.72' E	20.06.2006 10:50	20.06.2006 10:58	66.9
281	EXPO	57°52.41' N 9°45.52' E	57°52.84' N 9°50.26' E	20.06.2006 09:20	20.06.2006 09:59	62.1
282	EXPO	57°53.57' N 9°54.69' E	57°53.79' N 9°58.42' E	20.06.2006 10:46	20.06.2006 11:16	61.2