	FC	OR COLLA	TIMG CENTRE	USE			
CRUISE SUMMARY REPORT	Centre:	<u>DOD</u>	Ref. No.: 200	20217			
	Is data e	exchange					
	restricted		Yes	In part			
SHIP enter the full name and international radio call sign of the ship from which the data were c example, research ship; ship of opportunity, naval survey vessel; etc.	collected, an	ıd indicate	the type of ship	p, for			
Name: Alkor Ca	II Sign:	DB <b>N</b> D					
Type of ship: Research Vessel							
CRUISE NO. / NAME Alkor 237-1		or acror	e unique numbe nym assigned to se leg, if approp	the cruise			
CRUISE PERIOD start 07/05/2004 to 14/05/2004 er day/ month/ year day/ month/ year (ret	nd urn to port)						
PORT OF DEPARTURE (enter name and country) Kiel							
PORT OF RETURN (enter name and country) Bremerhaven							
RESPONSIBLE LABORATORY enter name and address of the laboratory responsible for coodinating the scientific planning of the cruise							
Name: Institut für Ostseeforschung (IOW)							
Address: Seestraße 15, 18119 Rostock Warnemünde							
Country: Germany							
CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of the	scientific wo	ork (chief c	of mission) durin	ng the cruise.			
Dr. Jörg Dutz; Institut für Ostseeforschung (IOW)							

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE the cruise so	enter sufficient information about the purpose and nature of
	the context in which the report data were collected.
GLOBEC Project: The project aims for a better under zooplankton and fish under the influence of physical principal mechanisms accounting for the high variate reproductive success of fishes.	al processes in order to elucidate the

Water samples, rosette, CTD, fluorescence probe, plankton nets (Bongo, WP-2, Nansen, IKS-80, Kiel Mulitnet), Isaacs-Kid-Midwater-Trawl - IKMT (for nekton and macro-zoobenthos)

**PROJECT** (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperative project (or expedition), then enter the name of the project, and of organisation responsible for co-ordinating the project.

**Project name: GLOBEC** 

Coordinating body: Institut für Ostseeforschung (IOW)

PRINCIPAL INVESTIGATORS: Enter the name and address of the Principal Investigators responsible for the data collected on
the cruise and who may be contacted for further information about the data. (The letter assigned below against each Principal Investigator is used
on pages 2 and 3, under the column heading 'PI', to identify the data sets for which he/she is responsible)

A. Dr. Jürgen Alheit, IOW

B. Dr. Volker Mohrholz, IOW

C.

D.

E.

F.

## MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS

This section should be used for reporting moorings, bottom mounted gear and drifting systems (both surface and deep) deployed and/or recovered during the cruise. Separate entries should be made for each location (only deployment positions need be given for drifting systems). This section may also be used to report data collected at fixed locations which are returned to routinely in order to construct 'long time series'.

APPROXIMATE POSITION						TION		DATA	DESCRIPTION
to	PI See op of age.	L deg	ATITUDI min	E N/S	deg	ONGITU[ min	DE E/W	enter code(s) from list on cover page.	Identify, as appropriate, the nature of the instrumentation the parameters (to be) measured, the number of Instruments and their depths, whether deployed and/or recovered, dates of deployments and/or recovery, and any identifiers given to the site.
									Please continue on separate sheet if necessary

## SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruise, whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurements/sampling techniques that imply distinctly different accuracy's or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line – it's description may extend over several lines if necessary.

NO, UNITS: for each data set, enter the estimated amount of data collected expressed in terms of the number of 'stations'; miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

PI see page	NO see above	UNITS see above	DATA TYPE  Enter code(s) from list on cover page	DESCRIPTION  Identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameters measured. Include any supplementary information that may be appropriate, e. g. vertical or horizontal profiles, depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, an indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken.
2	52	stations	H10	grid, vertical casts
2	52	stations	B02	grid, fluorescence, vertical profile
1	23	stations	B08	grid, water bottles
1	52	stations	В09	grid, Bongo net 135 μm, 350 μm, 500 μm, towed
1	4	stations	В09	grid, Multinet 50 μm, vertical stratified 10 m
1	48	stations	В09	grigrid, WP-2 200 μm
1	27	stations	В09	grid, Nansen
1	49	stations	В09	grid, IKS-80
1	4	stations	B09	grid, IKMT
				Please continue on separate sheet if necessary

TRACK CHART: You are strongly encouraged to submit, with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken.

Insert a tick(\*) in this box if a track chart is supplied



**GENERAL OCEAN AREA(S):** Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

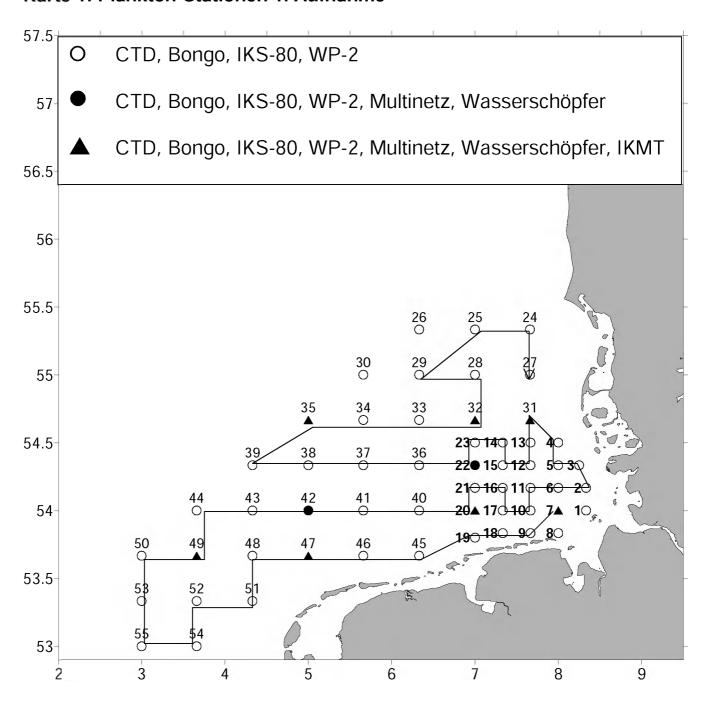
## North Sea

**SPECIFIC AREAS:** If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates.

Please insert here the number of each square in which data were collected from the below given chart

Southern Bight, German Bight

Karte 1: Plankton-Stationen 1. Aufnahme



## Stationlist Alkor 237

1	Station	deq E	deg N	Time begin	Time end	Date	Depth
2 820' 5470' 07:18 07:48 11.05.2004 16 3 8715' 54720' 08:56 09:19 11.05.2004 16 4 8700' 54730' 11:37 11:59 11.05.2004 15 5 8700' 5470' 10:07 10:30 11.05.2004 18 6 8700' 5470' 05:30 06:11 11.05.2004 26 6 870' 5470' 02:26 06:32 08.05.2004 31 9 7740' 5350' 08:10 08:35 08.05.2004 31 10 7740' 5470' 01:03 01:28 11.05.2004 37 11 7740' 5470' 10:55 04:21 18:42 11.05.2004 37 12 7740' 54720' 18:21 18:42 11.05.2004 37 12 7740' 54720' 18:21 18:42 11.05.2004 37 13 7740' 54720' 18:21 18:42 11.05.2004 37 15 7720' 54720' 19:50 02:50 10:55 17:24 11.05.2004 30 15 7720' 54720' 19:50 20:20 11.05.2004 37 17 7720' 54700' 21:45 21:58 10.05.2004 37 17 7720' 54700' 23:01 23:35 10.05.2004 37 17 7700' 53788' 11:46 12:31 08.05.2004 37 17 7700' 54700' 16:55 17:24 11.05.2004 30 18 720' 53750' 09:48 10:28 08.05.2004 29 18 720' 53760' 09:48 10:28 08.05.2004 20 20 7700' 54700' 19:31 20:23 10.05.2004 30 21 7700' 5470' 19:31 20:23 10.05.2004 30 21 7700' 5470' 19:31 20:23 10.05.2004 30 21 7700' 5470' 19:31 20:23 10.05.2004 30 22 7700' 5470' 19:31 20:23 10.05.2004 30 23 7700' 5470' 19:31 20:23 10.05.2004 30 24 7740' 5520' 19:51 11:48 21:58 10.05.2004 30 25 7700' 5470' 19:31 20:23 10.05.2004 30 26 27 7740' 5570' 19:41 11:48 21:58 10.05.2004 38 27 7740' 5570' 19:31 20:23 10.05.2004 38 28 770' 5470' 19:31 20:23 10.05.2004 38 29 620' 5570' 19:11 19:21 31.05.2004 38 31 7740' 5570' 19:11 19:23 31.05.2004 31 31 7740' 5470' 19:31 20:23 10.05.2004 31 32 7700' 5470' 19:31 20:24 31.05.2004 31 33 6'20' 5470' 07:32 70:34 31.05.2004 31 34 570' 5470' 19:31 20:33 31.05.2004 34 35 570' 5470' 19:41 31:43 15:42 11.05.2004 38 37 750' 5470' 19:41 41:41 31.05.2004 38 38 5700' 5470' 11:35 11:41 31.05.2004 39 38 6'20' 5470' 11:35 11:48 31 30:42 11.05.2004 38 38 5700' 5470' 11:41 11:41 31.05.2004 39 38 5700' 5470' 11:41 11:41 31.05.2004 39 39 420' 5470' 11:41 11:41 31.05.2004 39 31 740' 5470' 11:41 11:41 31.05.2004 39 31 740' 5470' 11:41 11:41 31.05.2004 39 31 740' 5470' 11:41 11:41 31.05.2004 39 31 740' 5470' 11:50 11:41 11:41 31.05.2004 39 31 740' 5470' 11:41 11:41 31.05							
3         875'         5420'         08:56         09:19         11.05.2004         15           4         8700'         5430'         11:37         11:59         11.05.2004         15           5         870'         5470'         05:30         06:11         11.05.2004         26           6         870'         5470'         05:30         06:11         11.05.2004         26           7         870'         5470'         02:26         06:32         08.05.2004         31           9         740'         5470'         01:03         01:28         11.05.2004         37           10         740'         5470'         01:03         01:28         11.05.2004         37           11         740'         5470'         18:21         18:42         11.05.2004         22           13         740'         5430'         16:55         17:24         11.05.2004         22           14         720'         5430'         21:34         21:55         11.05.2004         30           15         720'         5470'         21:45         21:58         10.05.2004         37           17         720'         5470'         21:45	2	820′	54°10′	07:18	07:48	11.05.2004	16
4         8 800'         5430'         11:37         11:59         11:05:2004         18           5         8 700'         5470'         10:07         10:30         11:05:2004         18           6         8 700'         5470'         05:30         06:11         11:05:2004         26           7         8 700'         54700'         02:26         06:32         08:05:2004         31           10         7 740'         5470'         02:50         04:21         11:05:2004         37           11         7 740'         5470'         02:50         04:21         11:05:2004         37           11         7 740'         5470'         18:21         18:42         11:05:2004         37           13         7 740'         5470'         18:21         18:42         11:05:2004         32           14         7 720'         5430'         16:55         17:24         11:05:2004         32           15         7 720'         5440'         19:50         20:20         11:05:2004         33           16         7 720'         5470'         21:45         21:58         10:05:2004         30           17         7 720'         54		8°15′	54°20′	08:56	09:19	11.05.2004	
5         800'         5420'         10:07         10:30         11:05:2004         18           6         870'         5470'         05:30         06:11         11:05:2004         26           7         870'         5400         02:26         06:32         08:05:2004         31           9         740'         5470'         01:03         01:28         11:05:2004         37           11         740'         5470'         02:50         04:21         11:05:2004         37           12         740'         5470'         18:21         18:42         11:05:2004         27           13         740'         5430'         21:34         21:55         11:05:2004         30           15         720'         5430'         21:34         21:55         11:05:2004         30           15         720'         5470'         21:34         21:58         11:05:2004         30           15         720'         5470'         21:45         21:58         11:05:2004         30           16         720'         5470'         23:01         23:35         10:05:2004         32           17         720'         5470'         23:01		800'	54°30′		11:59		
6         8 00'         54 00         05:30         06:11         11 05:2004         26           7         8 00'         54 00         02:26         06:32         08:05:2004         31           9         7 40'         53 50'         08:10         08:35         08:05:2004         37           10         7 40'         54 0'         01:03         01:28         11.05:2004         37           11         7 40'         54 20'         18:21         18:42         11.05:2004         27           13         7 40'         54 30'         16:55         17:24         11.05:2004         22           14         7 20'         54 30'         21:34         21:55         11.05:2004         30           15         7 20'         54 30'         21:34         21:55         11.05:2004         30           16         7 20'         54 0'         21:34         21:55         11.05:2004         30           16         7 20'         54 0'         23:01         23:35         10.05:2004         30           17         7 20'         54 0'         23:01         23:35         10.05:2004         20           20         7 70'         54 0' <td></td> <td>800'</td> <td></td> <td></td> <td></td> <td></td> <td></td>		800'					
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10							
11         7'40'         54'20'         18:21         11.05.2004         37           12         7'40'         54'20'         18:21         11.05.2004         22           13         7'40'         54'30'         21:34         21:55         11.05.2004         30           15         7'20'         54'30'         21:34         21:55         11.05.2004         30           16         7'20'         54'00'         21:45         21:58         10.05.2004         29           17         7'20'         54'00'         23:01         23:35         10.05.2004         29           18         7'20'         53'00'         09:48         10:28         08.05.2004         20           19         7'00'         53'86'         11:46         12:31         08.05.2004         20           20         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'00'         16:50         18:27         10.05.2004         36           22         7'00'         54'20'         00:48         01:55         12.05.2004         36           23         7'00'         54'30'         23:10 <td< td=""><td></td><td>7°40′</td><td></td><td>01:03</td><td>01:28</td><td></td><td></td></td<>		7°40′		01:03	01:28		
12         7*40'         54'30'         16:55         17:24         11.05.2004         27           13         7*40'         54'30'         16:55         17:24         11.05.2004         30           15         7'20'         54'30'         21:34         21:55         11.05.2004         43           15         7'20'         54'0'         21:45         21:58         10.05.2004         43           16         7'20'         54'0'         21:45         21:58         10.05.2004         29           18         7'20'         53'0'         09:48         10:28         08.05.2004         24           19         7'00'         53'0'         11:46         12:31         08.05.2004         20           20         7'00'         54'0'         16:50         18:27         10.05.2004         30           21         7'00'         54'0'         09:48         01:55         12.05.2004         30           21         7'00'         54'0'         09:48         01:55         12.05.2004         36           22         7'00'         54'20'         00:48         01:55         12.05.2004         38           23         7'00'         54'20'<		7°40′	54°10′		04:21	11.05.2004	37
13         7*40'         54'30'         16:55         17:24         11.05.2004         22           14         7'20'         54'30'         21:34         21:55         11.05.2004         30           15         7'20'         54'20'         19:50         20:20         11.05.2004         43           16         7'20'         54'00'         23:01         23:35         10.05.2004         29           18         7'20'         53'50'         09:48         10:28         08.05.2004         24           19         7'00'         53'48'         11:46         12:31         08.05.2004         24           20         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'20'         00:48         01:55         12.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         36           23         7'00'         54'20'         00:48         01:55         12.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         36           24         7'40'		7°40′	54°20′			11.05.2004	
15         7'20'         54'20'         19:50         20:20         11.05.2004         43           16         7'20'         54'10'         21:45         21:58         10.05.2004         29           17         7'20'         53'50'         09:48         10:28         08.05.2004         24           19         7'00'         53'88'         11:46         12:31         08.05.2004         20           20         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'10'         19:31         20:23         10.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         38           23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         28           27         7'40'         55'00'         10:46         11:10         13.05.2004         31           28         7'00'	13	7°40′	54°30′	16:55	17:24	11.05.2004	22
16         7'20'         54'10'         21:45         21:58         10.05.2004         29           17         7'20'         54'00'         23:01         23:35         10.05.2004         29           18         7'20'         53'50'         09:48         10:28         08.05.2004         24           19         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'20'         00:48         01:55         12.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         36           23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         22           27         7'40'         55'00'         19:11         19:23         13.05.2004         22           28         7'00'         55'00'         10:46         11:10         13.05.2004         31           29         6'20'	14	7°20′	54°30′	21:34	21:55	11.05.2004	30
16         7'20'         54'10'         21:45         21:58         10.05.2004         29           17         7'20'         54'00'         23:01         23:35         10.05.2004         29           18         7'20'         53'50'         09:48         10:28         08.05.2004         24           19         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'20'         00:48         01:55         12.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         36           23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         22           27         7'40'         55'00'         19:11         19:23         13.05.2004         22           28         7'00'         55'00'         10:46         11:10         13.05.2004         31           29         6'20'	15	7°20′	54°20′	19:50	20:20	11.05.2004	43
17         7'20'         54'00'         23:01         23:35         10.05.2004         29           18         7'20'         53'50'         09:48         10:28         08.05.2004         20           19         7'00'         54'00'         16:50         18:27         10.05.2004         30           20         7'00'         54'10'         19:31         20:23         10.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         36           23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         22           27         7'40'         55'20'         14:08         14:47         13.05.2004         24           28         7'00'         55'20'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         08:04         08:37         13.05.2004         43           31         74'0'							
18         7°20′         53°50′         09:48         10:28         08.05.2004         24           19         7′00′         53°48′         11:46         12:31         08.05.2004         20           20         7′00′         54°00′         16:50         18:27         10.05.2004         30           21         7′00′         54°20′         00:48         01:55         12.05.2004         35           22         7′00′         54°30′         23:10         23:43         11.05.2004         36           24         7°40′         55°20′         16:57         17:15         13.05.2004         22           25         7'00′         55°20′         14:08         14:47         13.05.2004         28           27         7'40′         55°00′         19:11         19:23         13.05.2004         24           28         7'00′         55°00′         10:46         11:10         13.05.2004         31           31         7'40′         54°40′         13:43         15:42         11.05.2004         36           32         7'00′         54°40′         02:10         02:33         13.05.2004         36           33         6°20′							
19         700'         53'48'         11:46         12:31         08.05.2004         20           20         7'00'         54'00'         16:50         18:27         10.05.2004         30           21         7'00'         54'20'         00:48         01:55         12.05.2004         38           22         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         22           27         7'40'         55'00'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         08:04         08:37         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         33           31         7'40'         54'40'         05:20         05:42         11.05.2004         36           33         6'20'         54'40'         02:10         02:33         13.05.2004         34           34         5'40'         5							
20         700'         54'00'         16:50         18:27         10.05.2004         30           21         700'         54'10'         19:31         20:23         10.05.2004         35           22         700'         54'20'         00:48         01:55         12.05.2004         38           23         700'         54'30'         23:10         23:43         11.05.2004         36           24         7*40'         55'20'         16:57         17:15         13.05.2004         22           25         700'         55'20'         14:08         14:47         13.05.2004         28           27         7*40'         55'00'         08:04         08:37         13.05.2004         24           28         700'         55'00'         08:04         08:37         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         43           31         7*40'         54*40'         05:20         05:42         13.05.2004         40           32         7'00'         54*40'         02:10         02:33         13.05.2004         40           34         5*0'         54*40'<		700′	53°48′				
21         7'00'         54'10'         19:31         20:23         10.05.2004         35           22         7'00'         54'20'         00:48         01:55         12.05.2004         38           23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         28           27         7'40'         55'00'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         08:04         08:37         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         43           31         7'40'         54'40'         13:43         15:42         11.05.2004         40           32         7'00'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'		7°00′					
23         7'00'         54'30'         23:10         23:43         11.05.2004         36           24         7'40'         55'20'         16:57         17:15         13.05.2004         22           25         7'00'         55'20'         14:08         14:47         13.05.2004         28           27         7'40'         55'00'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         10:46         11:10         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         43           31         7'40'         54'40'         05:20         05:42         13.05.2004         36           32         7'00'         54'40'         02:10         02:33         13.05.2004         36           34         5'40'         54'40'         02:10         02:33         13.05.2004         40           35         5'00'         54'40'         17:35         19:26         12.05.2004         43           36         6'20'         54'20'         04:33         05:00         12.05.2004         44           36         6'20'		7°00′	54°10′	19:31	20:23	10.05.2004	35
24         7¾0′         55°20′         16:57         17:15         13.05.2004         22           25         7°00′         55°20′         14:08         14:47         13.05.2004         28           27         7¾0′         55°00′         19:11         19:23         13.05.2004         24           28         7°00′         55°00′         08:04         08:37         13.05.2004         31           29         6°20′         55°00′         10:46         11:10         13.05.2004         43           31         7¾0′         54°40′         13:43         15:42         11.05.2004         20           32         7°00′         54°40′         05:20         05:42         13.05.2004         40           34         5°40′         54°40′         02:10         02:33         13.05.2004         40           34         5°40′         54°40′         02:10         02:33         13.05.2004         40           35         5°0′         54°40′         02:39         23:01         12.05.2004         43           36         6°20′         54°20′         07:32         07:59         12.05.2004         44           36         6°20′         54°2		7°00′	54°20′	00:48	01:55	12.05.2004	
24         7¾0′         55°20′         16:57         17:15         13.05.2004         22           25         7°00′         55°20′         14:08         14:47         13.05.2004         28           27         7¾0′         55°00′         19:11         19:23         13.05.2004         24           28         7°00′         55°00′         08:04         08:37         13.05.2004         31           29         6°20′         55°00′         10:46         11:10         13.05.2004         43           31         7¾0′         54°40′         13:43         15:42         11.05.2004         20           32         7°00′         54°40′         05:20         05:42         13.05.2004         40           34         5°40′         54°40′         02:10         02:33         13.05.2004         40           34         5°40′         54°40′         02:10         02:33         13.05.2004         40           35         5°0′         54°40′         02:39         23:01         12.05.2004         43           36         6°20′         54°20′         07:32         07:59         12.05.2004         44           36         6°20′         54°2		700′					
25         7'00'         55'20'         14:08         14:47         13.05.2004         28           27         7'40'         55'00'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         08:04         08:37         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         20           31         7'40'         54'40'         05:20         05:42         13.05.2004         20           32         7'00'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'         54'40'         22:39         23:01         12.05.2004         43           35         5'00'         54'40'         17:35         19:26         12.05.2004         44           36         6'20'         54'20'         04:33         05:00         12.05.2004         44           36         6'20'         54'20'         07:32         07:59         12.05.2004         43           37         5'40'         54'20'         13:25         14:07         12.05.2004         43           39         4'20'		7°40′	55°20′	16:57	17:15	13.05.2004	22
27         7'40'         55'00'         19:11         19:23         13.05.2004         24           28         7'00'         55'00'         08:04         08:37         13.05.2004         31           29         6'20'         55'00'         10:46         11:10         13.05.2004         43           31         7'40'         54'40'         03:20         05:42         13.05.2004         36           32         7'00'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'         54'40'         02:10         02:33         13.05.2004         40           34         5'40'         54'40'         02:39         23:01         12.05.2004         43           35         5'00'         54'20'         04:33         05:00         12.05.2004         38           37         5'40'         54'20'         07:32         07:59         12.05.2004         39           38         5'00'         54'20'         10:17         11:12         12.05.2004         40           40         6'20'		700′	55°20′			13.05.2004	
28         700'         5500'         08:04         08:37         13.05.2004         31           29         620'         5500'         10:46         11:10         13.05.2004         43           31         740'         5440'         13:43         15:42         11.05.2004         20           32         700'         5440'         05:20         05:42         13.05.2004         36           33         620'         5440'         02:10         02:33         13.05.2004         40           34         540'         5440'         22:39         23:01         12.05.2004         43           35         500'         5440'         17:35         19:26         12.05.2004         44           36         620'         5420'         04:33         05:00         12.05.2004         38           37         540'         5420'         07:32         07:59         12.05.2004         39           38         500'         5420'         10:17         11:12         12.05.2004         43           39         420'         5420'         13:25         14:07         12.05.2004         40           40         620'         5400'					19:23		
31         7*40'         54*40'         13:43         15:42         11.05.2004         20           32         7*00'         54*40'         05:20         05:42         13.05.2004         36           33         6*20'         54*40'         02:10         02:33         13.05.2004         40           34         5*40'         54*40'         17:35         19:26         12.05.2004         43           35         5*00'         54*20'         04:33         05:00         12.05.2004         38           37         5*40'         54*20'         07:32         07:59         12.05.2004         38           37         5*40'         54*20'         07:32         07:59         12.05.2004         39           38         5*00'         54*20'         10:17         11:12         12.05.2004         43           49         4*20'         54*20'         13:25         14:07         12.05.2004         40           40         6*20'         54*00'         14:21         14:43         10.05.2004         40           41         5*40'         54*00'         08:27         09:46         10.05.2004         39           43         4*20'		7°00′					
31         7*40'         54*40'         13:43         15:42         11.05.2004         20           32         7*00'         54*40'         05:20         05:42         13.05.2004         36           33         6*20'         54*40'         02:10         02:33         13.05.2004         40           34         5*40'         54*40'         17:35         19:26         12.05.2004         43           35         5*00'         54*20'         04:33         05:00         12.05.2004         38           37         5*40'         54*20'         07:32         07:59         12.05.2004         38           37         5*40'         54*20'         07:32         07:59         12.05.2004         39           38         5*00'         54*20'         10:17         11:12         12.05.2004         43           49         4*20'         54*20'         13:25         14:07         12.05.2004         40           40         6*20'         54*00'         14:21         14:43         10.05.2004         40           41         5*40'         54*00'         08:27         09:46         10.05.2004         39           43         4*20'							
32         700'         5440'         05:20         05:42         13.05.2004         36           33         620'         5440'         02:10         02:33         13.05.2004         40           34         540'         5440'         22:39         23:01         12.05.2004         43           35         500'         5440'         17:35         19:26         12.05.2004         44           36         620'         5420'         04:33         05:00         12.05.2004         38           37         540'         5420'         07:32         07:59         12.05.2004         39           38         500'         5420'         10:17         11:12         12.05.2004         43           39         420'         5420'         13:25         14:07         12.05.2004         40           40         620'         5400'         14:21         14:43         10.05.2004         40           41         540'         5400'         12:00         12:21         10.05.2004         39           43         420'         5400'         08:27         09:46         10.05.2004         43           44         340'         5400'							
33         6°20'         54°40'         02:10         02:33         13.05.2004         40           34         5°40'         54°40'         22:39         23:01         12.05.2004         43           35         5°00'         54°40'         17:35         19:26         12.05.2004         44           36         6°20'         54°20'         04:33         05:00         12.05.2004         38           37         5°40'         54°20'         07:32         07:59         12.05.2004         39           38         5'00'         54°20'         10:17         11:12         12.05.2004         43           39         4'20'         54°20'         13:25         14:07         12.05.2004         40           40         6'20'         54°00'         14:21         14:43         10.05.2004         30           41         5°40'         54°00'         12:00         12:21         10.05.2004         37           42         5°00'         54°00'         08:27         09:46         10.05.2004         39           43         4'20'         54°00'         05:29         06:10         10.05.2004         43           44         3°0'         5		700′	54°40′			13.05.2004	
34         5\(^40')         54\(^40')         22:39         23:01         12.05.2004         43           35         5\(^60')         54\(^40')         17:35         19:26         12.05.2004         44           36         6\(^20')         54\(^20')         04:33         05:00         12.05.2004         38           37         5\(^40')         54\(^20')         07:32         07:59         12.05.2004         39           38         5\(^60')         54\(^20')         10:17         11:12         12.05.2004         43           39         4\(^20')         54\(^20')         13:25         14:07         12.05.2004         40           40         6\(^20')         54\(^40')         13:25         14:07         12.05.2004         40           40         6\(^20')         54\(^40')         12:00         12:21         10.05.2004         30           41         5\(^40')         54\(^40')         08:27         09:46         10.05.2004         39           43         4\(^20')         54\(^400')         05:29         06:10         10.05.2004         43           44         3\(^40')         54\(^40')         05:29         06:10         10.05.2004         45 <td></td> <td>6°20′</td> <td>54°40′</td> <td></td> <td></td> <td></td> <td></td>		6°20′	54°40′				
35         500'         5440'         17:35         19:26         12.05.2004         44           36         620'         5420'         04:33         05:00         12.05.2004         38           37         540'         5420'         07:32         07:59         12.05.2004         39           38         500'         5420'         10:17         11:12         12.05.2004         43           39         420'         5420'         13:25         14:07         12.05.2004         40           40         620'         5400'         14:21         14:43         10.05.2004         30           41         540'         5400'         12:00         12:21         10.05.2004         37           42         500'         5400'         08:27         09:46         10.05.2004         39           43         420'         5400'         05:29         06:10         10.05.2004         43           44         340'         5400'         01:42         02:43         10.05.2004         45           45         620'         5340'         15:20         15:50         08.05.2004         22           46         540'         5340'		5°40′	54°40′		23:01	12.05.2004	43
36       6°20'       54°20'       04:33       05:00       12.05.2004       38         37       5°40'       54°20'       07:32       07:59       12.05.2004       39         38       5°00'       54°20'       10:17       11:12       12.05.2004       43         39       4°20'       54°20'       13:25       14:07       12.05.2004       40         40       6°20'       54°00'       14:21       14:43       10.05.2004       30         41       5°40'       54°00'       12:00       12:21       10.05.2004       37         42       5°00'       54°00'       08:27       09:46       10.05.2004       39         43       4°20'       54°00'       05:29       06:10       10.05.2004       43         44       3°40'       54°00'       01:42       02:43       10.05.2004       45         45       6°20'       53°40'       15:20       15:50       08.05.2004       22         46       5°40'       53°40'       18:04       18:41       08.05.2004       24         47       5°00'       53°40'       20:51       23:09       08.05.2004       37         49       3°40'	35	5°00′	54°40′	17:35	19:26	12.05.2004	44
37         540'         5420'         07:32         07:59         12.05.2004         39           38         500'         5420'         10:17         11:12         12.05.2004         43           39         420'         5420'         13:25         14:07         12.05.2004         40           40         620'         5400'         14:21         14:43         10.05.2004         30           41         540'         5400'         12:00         12:21         10.05.2004         37           42         500'         5400'         08:27         09:46         10.05.2004         39           43         420'         5400'         05:29         06:10         10.05.2004         43           44         340'         5400'         01:42         02:43         10.05.2004         45           45         620'         5340'         15:20         15:50         08.05.2004         22           46         540'         5340'         18:04         18:41         08.05.2004         24           47         500'         5340'         20:51         23:09         08.05.2004         30           48         420'         5340'		6°20′	54°20′	04:33	05:00	12.05.2004	38
38         500'         54°20'         10:17         11:12         12.05.2004         43           39         4°20'         54°20'         13:25         14:07         12.05.2004         40           40         6°20'         54°00'         14:21         14:43         10.05.2004         30           41         5°40'         54°00'         12:00         12:21         10.05.2004         37           42         5°00'         54°00'         08:27         09:46         10.05.2004         39           43         4°20'         54°00'         05:29         06:10         10.05.2004         43           44         3°40'         54°00'         01:42         02:43         10.05.2004         45           45         6°20'         53°40'         15:20         15:50         08.05.2004         22           46         5°40'         53°40'         18:04         18:41         08.05.2004         24           47         5°00'         53°40'         20:51         23:09         08.05.2004         30           48         4°20'         53°40'         01:37         02:30         09.05.2004         38           50         3°00'         5		5°40′	54°20′			12.05.2004	39
40       6°20'       54°00'       14:21       14:43       10.05.2004       30         41       5°40'       54°00'       12:00       12:21       10.05.2004       37         42       5°00'       54°00'       08:27       09:46       10.05.2004       39         43       4°20'       54°00'       05:29       06:10       10.05.2004       43         44       3°40'       54°00'       01:42       02:43       10.05.2004       45         45       6°20'       53°40'       15:20       15:50       08.05.2004       22         46       5°40'       53°40'       18:04       18:41       08.05.2004       24         47       5°00'       53°40'       20:51       23:09       08.05.2004       30         48       4°20'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       28         54       3°40'		5°00′		10:17			
40       6°20'       54°00'       14:21       14:43       10.05.2004       30         41       5°40'       54°00'       12:00       12:21       10.05.2004       37         42       5°00'       54°00'       08:27       09:46       10.05.2004       39         43       4°20'       54°00'       05:29       06:10       10.05.2004       43         44       3°40'       54°00'       01:42       02:43       10.05.2004       45         45       6°20'       53°40'       15:20       15:50       08.05.2004       22         46       5°40'       53°40'       18:04       18:41       08.05.2004       24         47       5°00'       53°40'       20:51       23:09       08.05.2004       30         48       4°20'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       28         54       3°40'	39	4°20′	54°20′	13:25	14:07	12.05.2004	40
41       5\(^40')       54\(^400')       12:00       12:21       10.05.2004       37         42       5\(^00')       54\(^00')       08:27       09:46       10.05.2004       39         43       4\(^20')       54\(^00')       05:29       06:10       10.05.2004       43         44       3\(^40')       54\(^00')       01:42       02:43       10.05.2004       45         45       6\(^20')       53\(^40')       15:20       15:50       08.05.2004       22         46       5\(^40')       53\(^40')       18:04       18:41       08.05.2004       24         47       5\(^00')       53\(^40')       20:51       23:09       08.05.2004       30         48       4\(^20')       53\(^40')       01:37       02:30       09.05.2004       37         49       3\(^40')       53\(^40')       21:08       23:48       09.05.2004       38         50       3\(^00')       53\(^40')       18:02       18:45       09.05.2004       37         51       4\(^20')       53\(^20')       04:28       05:00       09.05.2004       26         52       3\(^40')       53\(^20')       15:36       16:07       09.05.2004 <td></td> <td>6°20′</td> <td>54°00′</td> <td>14:21</td> <td>14:43</td> <td>10.05.2004</td> <td>30</td>		6°20′	54°00′	14:21	14:43	10.05.2004	30
42       500'       5400'       08:27       09:46       10.05.2004       39         43       420'       5400'       05:29       06:10       10.05.2004       43         44       340'       5400'       01:42       02:43       10.05.2004       45         45       620'       5340'       15:20       15:50       08.05.2004       22         46       540'       5340'       18:04       18:41       08.05.2004       24         47       500'       5340'       20:51       23:09       08.05.2004       30         48       420'       5340'       01:37       02:30       09.05.2004       37         49       340'       5340'       21:08       23:48       09.05.2004       38         50       300'       5340'       18:02       18:45       09.05.2004       37         51       420'       5320'       04:28       05:00       09.05.2004       26         52       340'       5320'       07:10       08:01       09.05.2004       28         54       340'       5300'       10:14       10:57       09.05.2004       30		5°40′	54°00′			10.05.2004	
43       4°20'       54°00'       05:29       06:10       10.05.2004       43         44       3°40'       54°00'       01:42       02:43       10.05.2004       45         45       6°20'       53°40'       15:20       15:50       08.05.2004       22         46       5°40'       53°40'       18:04       18:41       08.05.2004       24         47       5°00'       53°40'       20:51       23:09       08.05.2004       30         48       4°20'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°40'       18:02       18:45       09.05.2004       37         51       4°20'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       28         54       3°40'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30	42	5°00′	54°00′	08:27	09:46	10.05.2004	39
45       6°20'       53°40'       15:20       15:50       08.05.2004       22         46       5°40'       53°40'       18:04       18:41       08.05.2004       24         47       5°00'       53°40'       20:51       23:09       08.05.2004       30         48       4°20'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°40'       18:02       18:45       09.05.2004       37         51       4°20'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       29         53       3°00'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30	43	4°20′	54°00′	05:29	06:10	10.05.2004	
46       5*40'       53*40'       18:04       18:41       08.05.2004       24         47       5*00'       53*40'       20:51       23:09       08.05.2004       30         48       4*20'       53*40'       01:37       02:30       09.05.2004       37         49       3*40'       53*40'       21:08       23:48       09.05.2004       38         50       3*00'       53*40'       18:02       18:45       09.05.2004       37         51       4*20'       53*20'       04:28       05:00       09.05.2004       26         52       3*40'       53*20'       07:10       08:01       09.05.2004       29         53       3*00'       53*20'       15:36       16:07       09.05.2004       28         54       3*40'       53*00'       10:14       10:57       09.05.2004       30	44	3°40′	54°00′	01:42	02:43	10.05.2004	45
47       500'       53°40'       20:51       23:09       08.05.2004       30         48       4°20'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°40'       18:02       18:45       09.05.2004       37         51       4°20'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       29         53       3°00'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30	45	620′	53°40′	15:20	15:50	08.05.2004	22
48       420'       53°40'       01:37       02:30       09.05.2004       37         49       3°40'       53°40'       21:08       23:48       09.05.2004       38         50       3°00'       53°40'       18:02       18:45       09.05.2004       37         51       4°20'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       29         53       3°00'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30	46	5°40′	53°40′	18:04	18:41	08.05.2004	24
49       3\pma0'       53\pma0'       21:08       23:48       09.05.2004       38         50       3\pma0'       53\pma0'       18:02       18:45       09.05.2004       37         51       4\pma0'       53\pma0'       04:28       05:00       09.05.2004       26         52       3\pma0'       53\pma0'       07:10       08:01       09.05.2004       29         53       3\pma0'       53\pma0'       15:36       16:07       09.05.2004       28         54       3\pma0'       53\pma0'       10:14       10:57       09.05.2004       30	47	5°00′	53°40′	20:51	23:09	08.05.2004	30
50     300'     53°40'     18:02     18:45     09.05.2004     37       51     4°20'     53°20'     04:28     05:00     09.05.2004     26       52     3°40'     53°20'     07:10     08:01     09.05.2004     29       53     3°00'     53°20'     15:36     16:07     09.05.2004     28       54     3°40'     53°00'     10:14     10:57     09.05.2004     30	48	4°20′	53°40′	01:37	02:30	09.05.2004	37
50     300'     53°40'     18:02     18:45     09.05.2004     37       51     4°20'     53°20'     04:28     05:00     09.05.2004     26       52     3°40'     53°20'     07:10     08:01     09.05.2004     29       53     3°00'     53°20'     15:36     16:07     09.05.2004     28       54     3°40'     53°00'     10:14     10:57     09.05.2004     30		3°40′	53°40′	21:08			
51       420'       53°20'       04:28       05:00       09.05.2004       26         52       3°40'       53°20'       07:10       08:01       09.05.2004       29         53       3°0'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30						09.05.2004	
52       340'       53°20'       07:10       08:01       09.05.2004       29         53       300'       53°20'       15:36       16:07       09.05.2004       28         54       340'       53°00'       10:14       10:57       09.05.2004       30		4°20′	53°20′	04:28		09.05.2004	
53       300'       53°20'       15:36       16:07       09.05.2004       28         54       3°40'       53°00'       10:14       10:57       09.05.2004       30		3°40′					
54 3°40′ 53°00′ 10:14 10:57 09.05.2004 30	53	300′	53°20′	15:36	16:07		28
	54	3°40′	53°00′	10:14	10:57	09.05.2004	
	55	300′	53°00′	12:48	13:22	09.05.2004	30