



RECORDING EQUIPMENT SETUP AND PARAMETERS

Line: 1001-FA-226

Direction: 222,4 deg.

Date: 09.10.00

RECORDING SYSTEM

Type	MSX I/O
Number of channels	288
Adjacent Trace Sunning	Yes
Tape Type	IBM 3590
Format Type	SEG D 8048 IBM
Sample Rate	4 msec
Rec length	12 sec
Low cut filter	4 Hz / 18 db/oct
Hight cut filter	103 Hz / 264 db/oct
Monitor Type	OYO GS-624 Plotter

DIGITAL STREAMER

Type	MSX I/O
Sensitivity	14 V/Bar
Lengh	1 x 7200 m
Number of group	576
Group Spacing	12.5 m
Array Type	Tapered, Center Weighted, 2 x 17.55 - m Overall length, 29% Overlap Adjacent Groups

AUXILIARY CHANNELS

NUMBER 1	Nearrfield phone N1 (near) Array 1
NUMBER 2	Nearrfield phone N2 (far) Array 1
NUMBER 3	Nearrfield phone N3 (near) Array 2
NUMBER 4	Nearrfield phone N4 (far) Array 2
NUMBER 5	Nearrfield phone N5 (near) Array 3
NUMBER 6	Nearrfield phone N6 (far) Array 3
NUMBER 7	Nearrfield phone N7 (near) Array 4
NUMBER 8	Nearrfield phone N8 (far) Array 4
WATER BREAK 1	1 - WB (near)
WATER BREAK 2	2 - WB across 200m
WATER BREAK 3	3 - WB across 400m
WATER BREAK 4	4 - WB across 600m

NAVIGATION SYSTEM

Positioning	DGPS
Software	SPECTRA System V7.6.6
Primary	SKYFIX Inmarsat "MULTIFIX-2"
Secondary	SKYFIX Spot Beam "MULTIFIX-2"
Gyro	SPERRY Gyro Compass
Echosounder	ODOM ECHOTRAC DF 3200

TAIL BUOY

Type	SkyTrac
Tracking	Range + Bearing
System	GPS
2 Type	ACTIVE TRANSPONDER

DEPTH CONTROL

Type	DigiCourse
Model1	5011E
Model2	5010
Monitor	239P

ENERGY SOURCE

Type	BOLT Long-Life
Controller	GCS 90
Tuning accuracy	0.1 msec
Tuning tolerance	< 1.0 msec
Delay	70 msec
Volume	6000 cu.in.
Volume Tolerance	10%
Pressure	2000 PSI
Depth	6.0 m
SP Interval	37.5 M.



Laboratory of Regional Geodynamics Party 207



CONTRACT: *NorBraz-99*

Non-Exclusive 2D Survey

AREA: *Foz do Amazonas and Para-Maranhao Basins*

I/O MSX SYSTEM OBSERVER LOG

EXCEPTION ABBREVIATION LIST

MNEMONIC	DESCRIPTION
AF	Auto firing
ANV	Average Noise Value
BOL	Beginning of Line
BOR	Beginning of Reel
BYP	Tape is in Bypass Mode
COR1	Corrected Errors on Primary Tape Unit
COR2	Corrected Errors on Secondary Tape Unit
DF#	Duplicate File Number
DSP	Duplicate Shot Number
EHTO	Energy Source System header is not received within time limit
EOL	End of Line
ETBK	Early Timebreak
FA	Feather Angle
FAILED	Recording Failed
FCSP	First Chargeable Shot Point
FGSP	First Good Shot Point
Fireout suppressed	Fire Command is suppressed
FSID	Field Shot Identifier
FSP	First Shot Point
GAP1	Gap Error on Primary Tape Unit
GAP2	Gap Error on Secondary Tape Unit
GT	Gun Timing
ITB	Internal Timebreak
LCSP	Last Chargeable Shot Point
LGSP	Last Good Shot Point
LSP	Last Shot Point
LTBK	Late Timebreak
MF	Misfire
MOL	Middle of Line
MS	Missing sensor
NAV HDR TO	Nav System header's is not received within time limit
NF#	Non-sequential or Skipped File
NFSID	Non-sequential FSID
NSP	Non-sequential Shot Point
PLAYBACK	Playedback File
RET1	Primary Tape Unit Retries
RET2	Secondary Tape Unit Retries
SC	Short circuit
SI	Seismic Interference
SOL	Start of Line
TBK suppressed	Timebreak is suppressed
TELE ERR 1-16	Telemetry error count
UHTO	Pre-built user header is not received within time limit

I/O MSX SYSTEM OBSERVER LOG

Tue Sep 12 03:25:03 2000

LINE INFORMATION

<i>Client</i>	LARGE/TGS-NOPEC
<i>Prospect</i>	NORBRAZ-99
<i>Line Name</i>	1001-FA-226
<i>Crew/Party</i>	207
<i>Operators</i>	LARGE
<i>Weather</i>	FAIR
<i>Seas</i>	state 3
<i>Heading</i>	222.4 deg.
<i>Vessel</i>	M/V MEZEN
<i>Job Name</i>	N-EXCLUSIVE 2D SURV.

I/O MSX SYSTEM OBSERVER LOG

CLIENT: LARGE/TGS-NOPEC

PROSPECT: NORBRAZ-99

SHOT	FILE	REEL	TU	FSID	DATE & TIME	EXCEPTION	COMMENT
0	100	458	00	0000 00000	Sep 10, 2000 - 17:54:24	UHTO; NF#; DSP; NFSID; BOR; ITB;	Noise record ANV = 2.8 uB;
6602	101	458	00	0254 48492	Sep 10, 2000 - 18:23:18	NF#;	FSP,FGSP,FA = 27 deg. Stbd;
6290	413	458	00	0254 48804	Sep 10, 2000 - 20:52:48		FA = 30 deg. Stbd;
5921	782	458	00	0255 00001	Sep 11, 2000 - 00:00:06	NFSID;	Midnight SP #5922;
5538	1165	458	00	0255 00384	Sep 11, 2000 - 02:52:52		FA = 35 deg. Stbd;
5336	1367	458	00	0255 00586	Sep 11, 2000 - 04:28:20		Gun P2-2 GT = -3.3 ms;
5241	1462	458	00	0255 00681	Sep 11, 2000 - 05:15:44		FA = 40 deg. Stbd;
4995	1708	458	00	0255 00927	Sep 11, 2000 - 07:35:12		FA = 45 deg. Stbd;
4612	2091	458	00	0255 01310	Sep 11, 2000 - 10:55:52		FA = 40 deg. Stbd;
4551	2152	458	00	0255 01371	Sep 11, 2000 - 11:19:40		FA = 35 deg. Stbd;
4343	2360	458	00	0255 01579	Sep 11, 2000 - 12:38:56		FA = 30 deg. Stbd;
4103	2600	459	02	0255 01819	Sep 11, 2000 - 14:41:14	BOR;	
2750	3953	459	02	0255 03172	Sep 11, 2000 - 23:19:52		FA = 30 deg. Stbd;
2644	4059	459	02	0256 00001	Sep 11, 2000 - 23:59:48	NFSID;	Midnight SP #2645;
2499	4204	459	02	0256 00146	Sep 12, 2000 - 00:54:28		FA = 30 deg. Stbd;
2074	4629	459	02	0256 00571	Sep 12, 2000 - 03:21:06	EOL;	LSP, LGSP, FA = 31.4 deg. Stbd;
0	4630	459	02	0000 00000	Sep 12, 2000 - 03:22:28	UHTO; NF#; DSP; NFSID; ITB;	Noise record, ANV = 2.4 uB;

I/O MSX SYSTEM REEL LOG

Tue Sep 12 03:26:01 2000

LINE INFORMATION

<i>Client</i>	LARGE/TGS-NOPEC
<i>Prospect</i>	NORBRAZ-99
<i>Line Name</i>	1001-FA-226
<i>Crew/Party</i>	207
<i>Operators</i>	LARGE
<i>Weather</i>	FAIR
<i>Seas</i>	state 3
<i>Heading</i>	222.4 deg.
<i>Vessel</i>	M/V MEZEN
<i>Job Name</i>	N-EXCLUSIVE 2D SURV.

CLIENT: LARGE/TGS-NOPEC PROSPECT: NORBRAZ-99

I/O MSX SYSTEM REEL LOG

Tue Sep 12 03:26:01 2000

REEL NUMBER	TAPE UNIT	FILE COUNT	FIRST FILE LAST FILE	FIRST SP LAST SP	FIRST FSID LAST FSID	START DATE & TIME END DATE & TIME
458	00	2500	100 2599	0 4104	0000 00000 0255 01818	Sep 10, 2000 - 17:54:24 Sep 11, 2000 - 14:40:40
459	02	2031	2600 4630	4103 0	0255 01819 0000 00000	Sep 11, 2000 - 14:41:14 Sep 12, 2000 - 03:22:28



R/V MEZEN

Laboratory of Regional Geodynamics Party 207



R/V Mezen

TGS NOPEC
G E O P H Y S I C A L C O M P A N Y

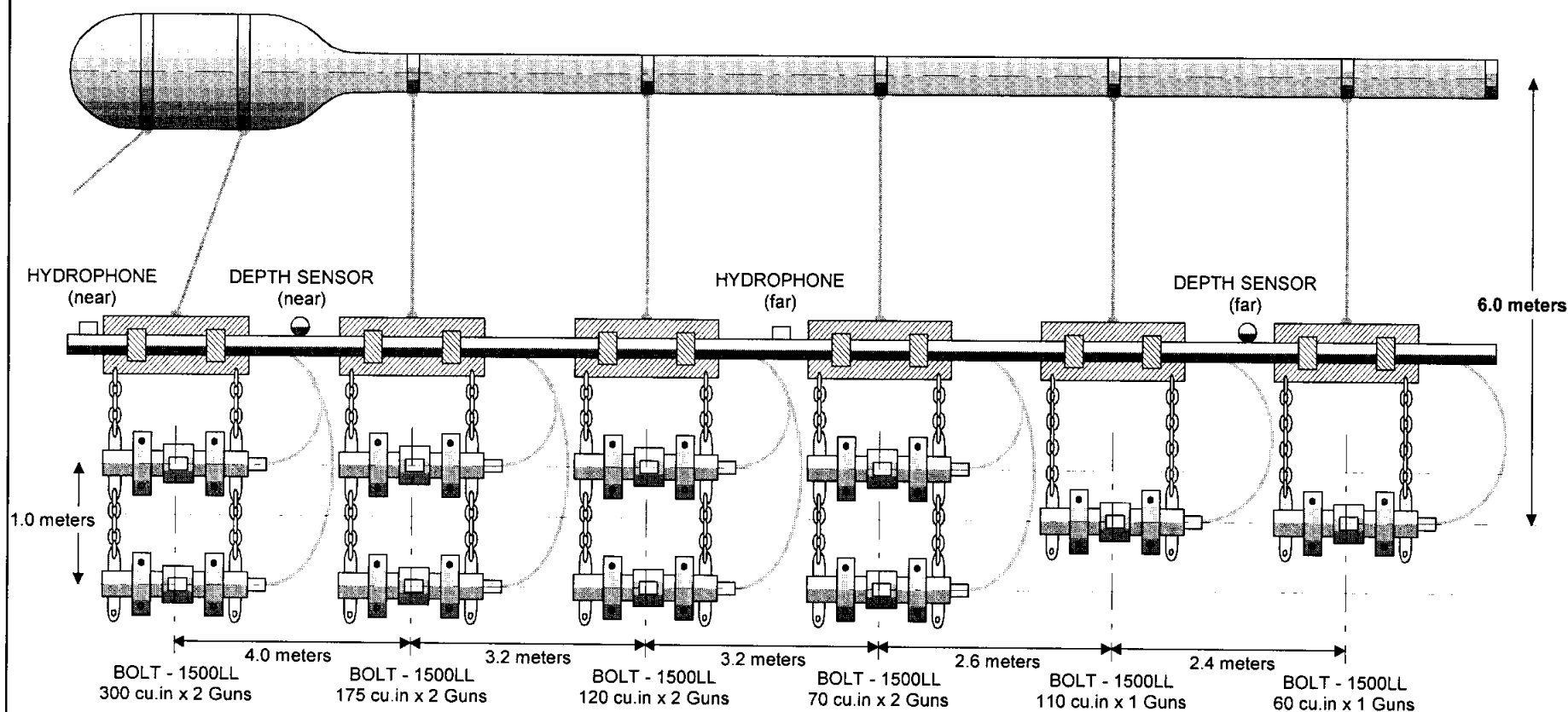
CONTRACT: NorBraz-99

Non-Exclusive 2D Survey

AREA: Foz do Amazonas and Para-Maranhao Basins

TOWED AIRGUN ARRAY

10 GUNS - 1500 CU.IN





R/V MEZEN

Laboratory of Regional Geodynamics Party 207



R/V Mezen

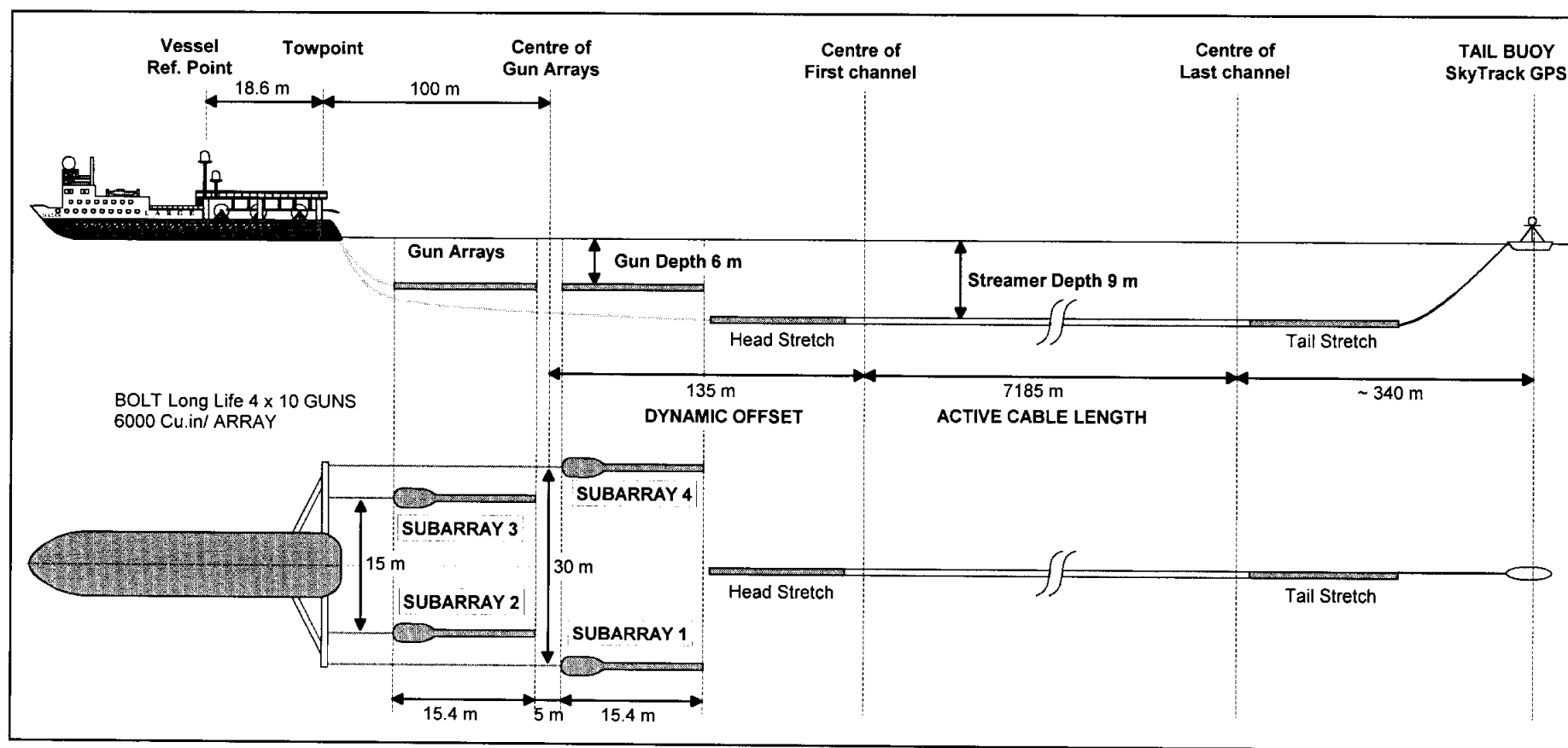
TGS NOPEC
GEOPHYSICAL COMPANY

CONTRACT: NorBraz-99

Non-Exclusive 2D Survey

AREA: Foz do Amazonas and Para-Maranhao Basins

CABLE AND GUN ARRAY DIAGRAM





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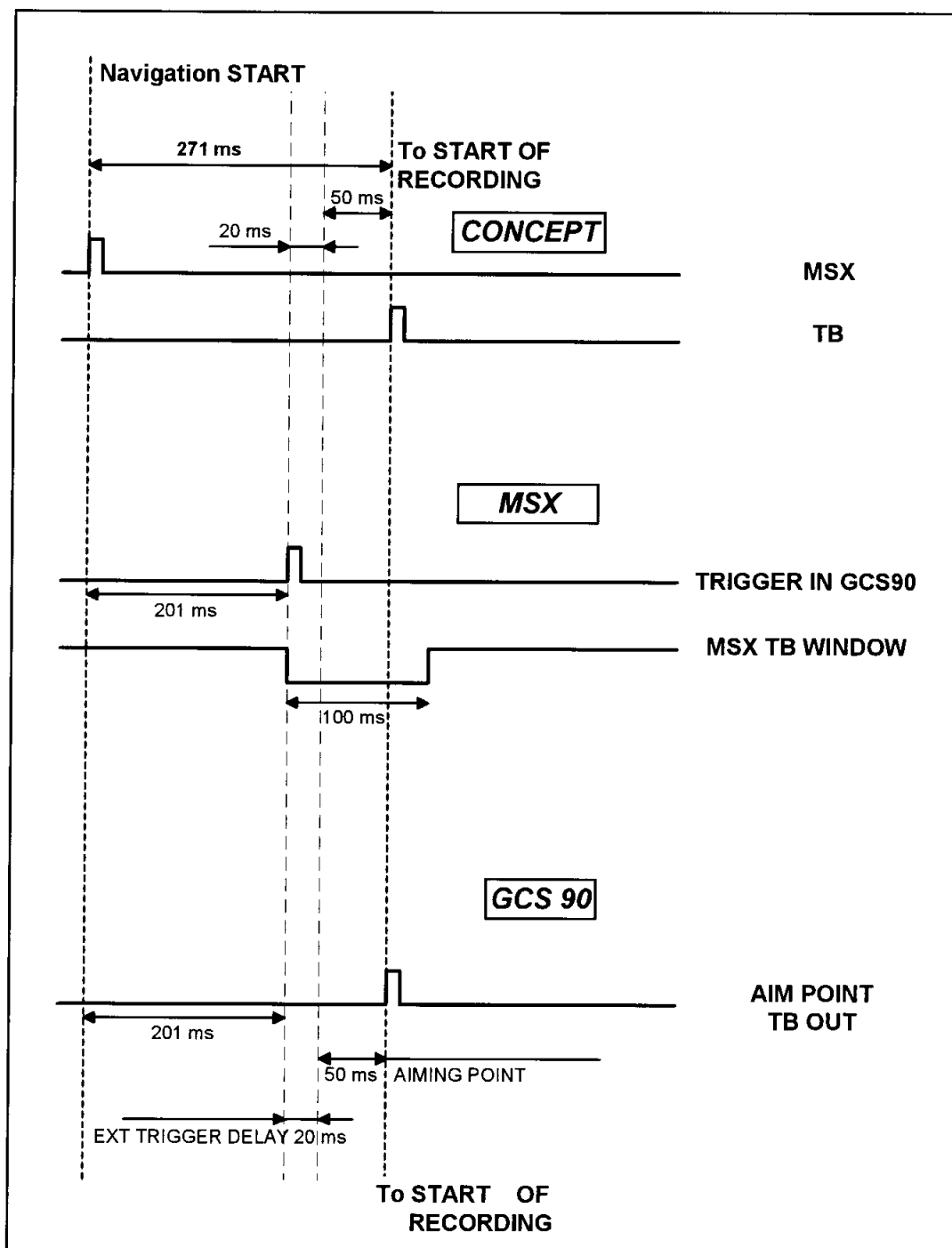


CONTRACT: *NorBraz-99*

Non-Exclusive 2D Survey

AREA: *Foz do Amazonas and Para-Maranhao Basins*

SYSTEM TIMING





Noise Summary

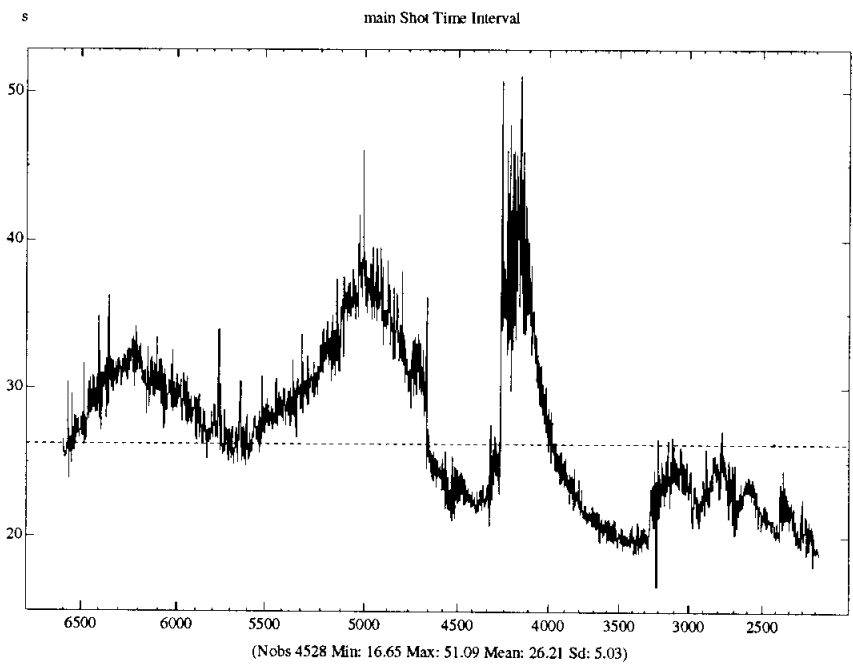
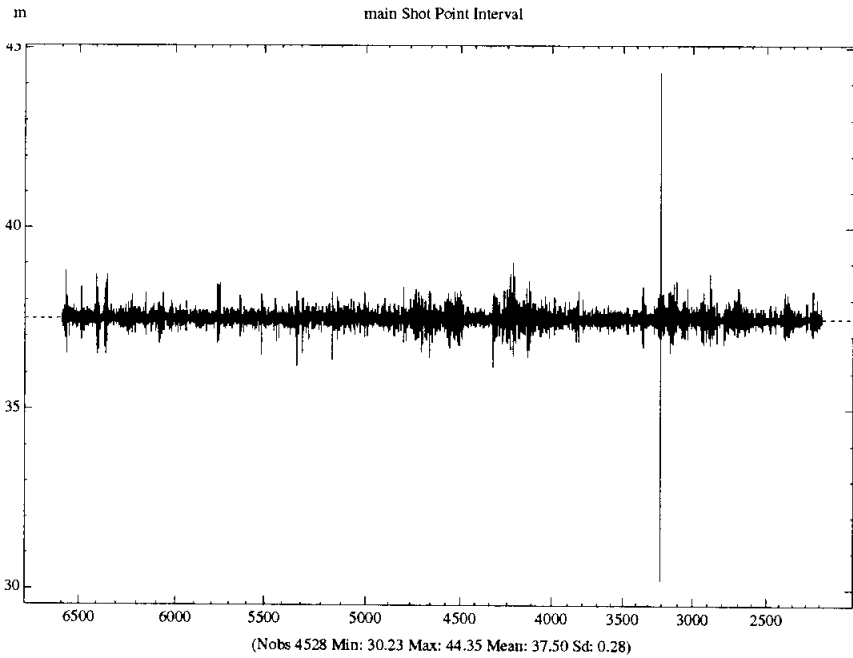
Line: 1001-FA-226
Direction: 222,4 deg.
Date: 09.10.00

	SP No	Sea state	Ambient Noise
SOL	6602	2	2,8 ub
EOL	2074	2	2,4 ub

Swell Noise		
SP	Percent	ub
6602	1	20
4703	5	50
4650	1	20
4170	10	80
4110	5	50
3300	2	40
2800	7	40
2585	4	30
2250	7	50

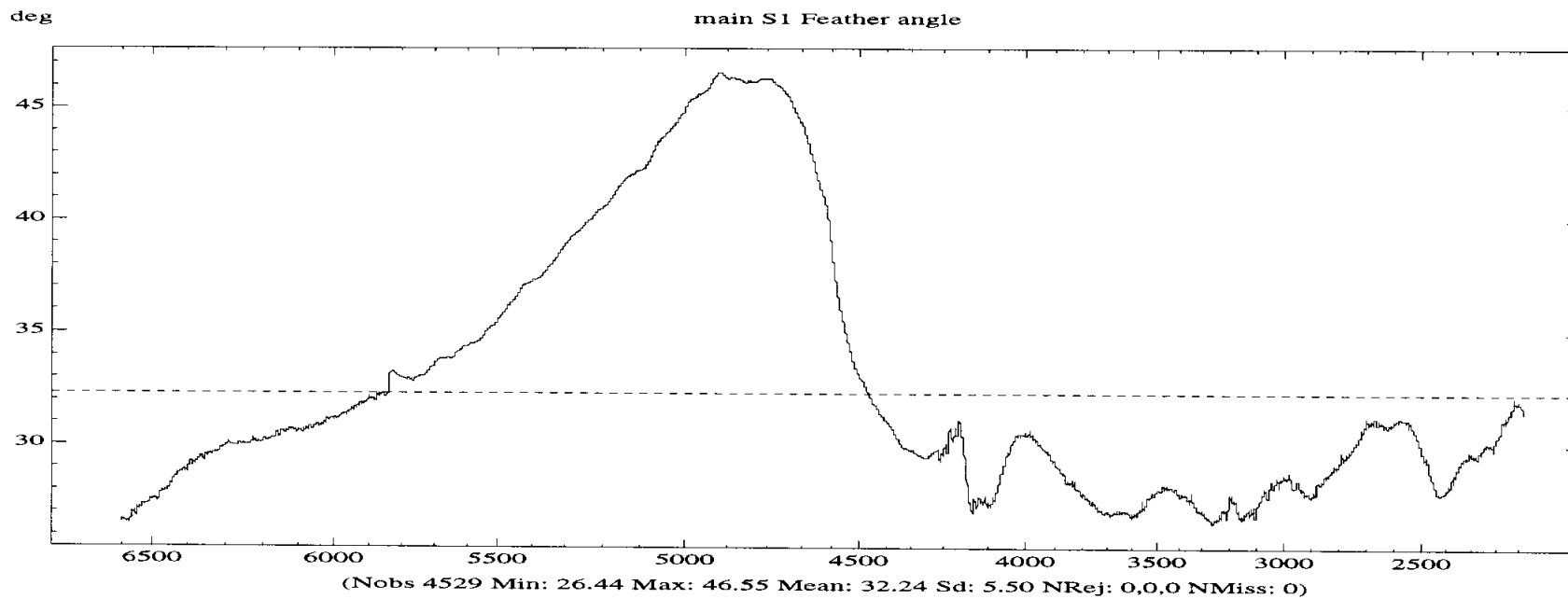
Nature Noise			
SPFrom	SPTTo	ChFrom	ChTo
2788	2749	50	130
2748	2709	47	113
2708	2669	70	83
2668	2629	97	118
2628	2589	126	147
2588	2586	155	170

Project	NorBraz-99	
Project ID	FA-PM	
Client	Non-Exclusive 2D Seismic Program	
Line Name	1001-FA-226	
File Number	000	
First Shot	6602	Date 18:23:39 10 Sep 2000
Last Shot	2074	Date 03:21:28 12 Sep 2000

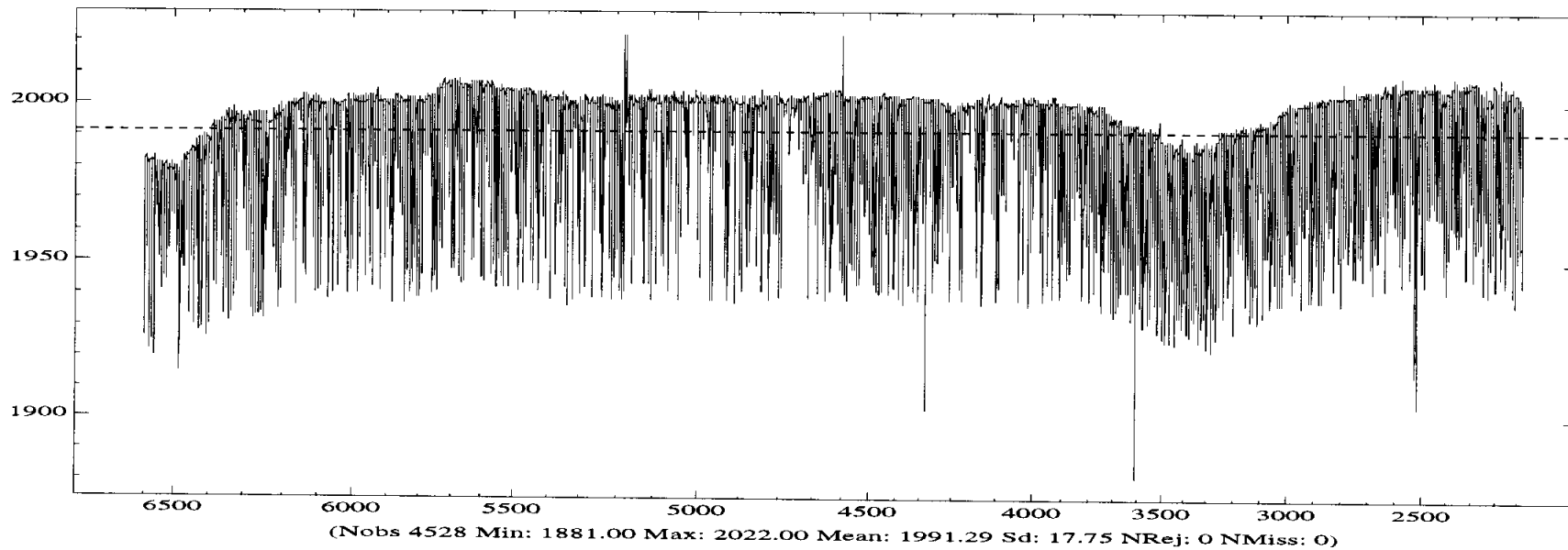


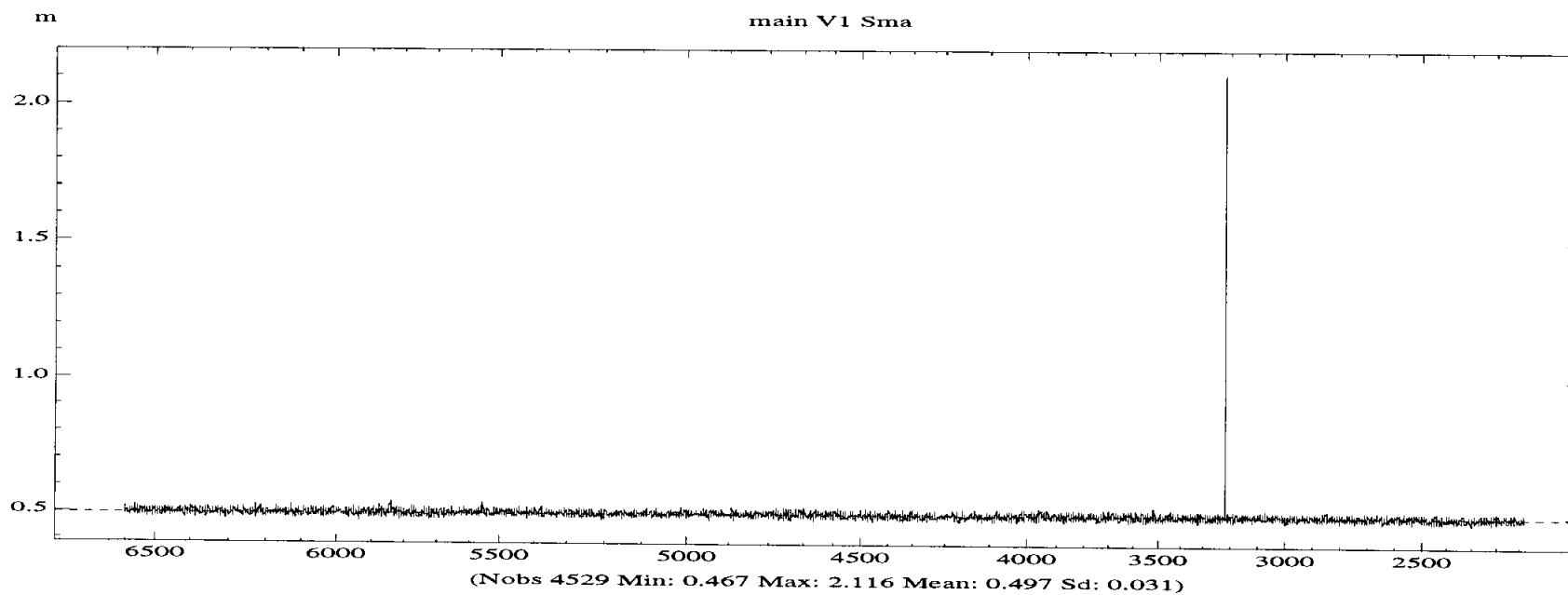
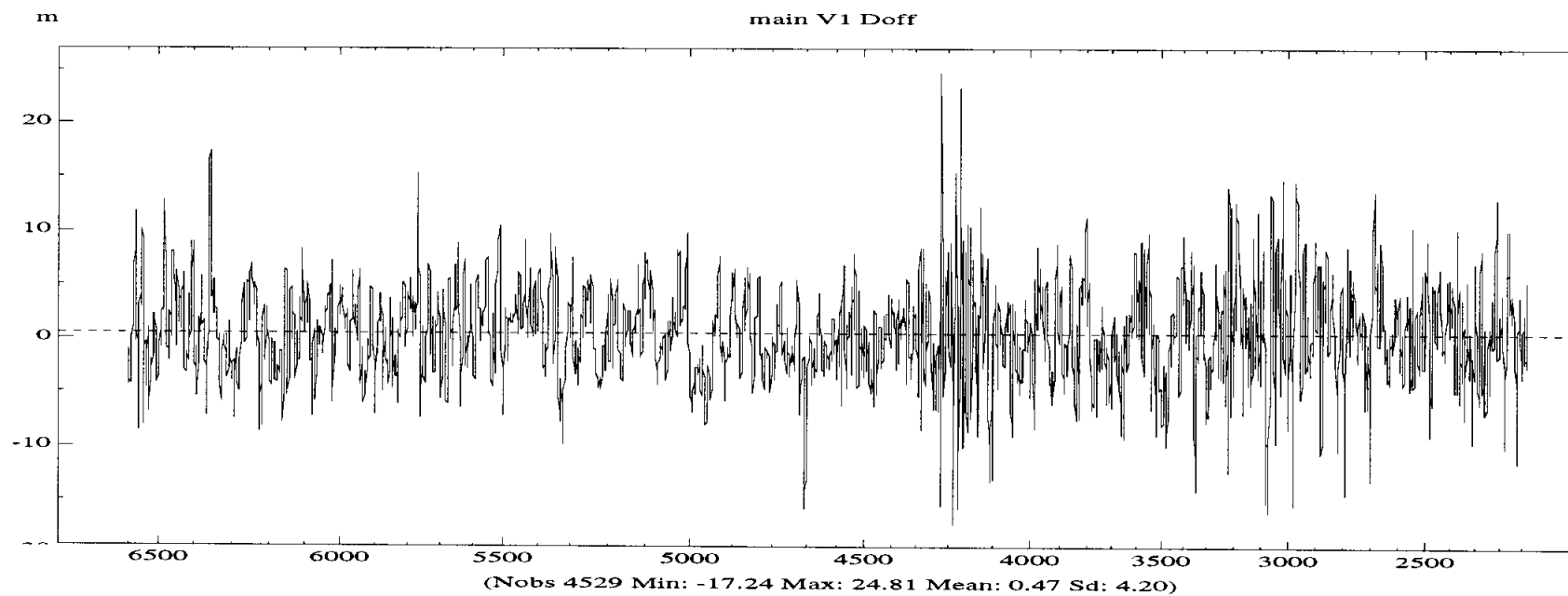
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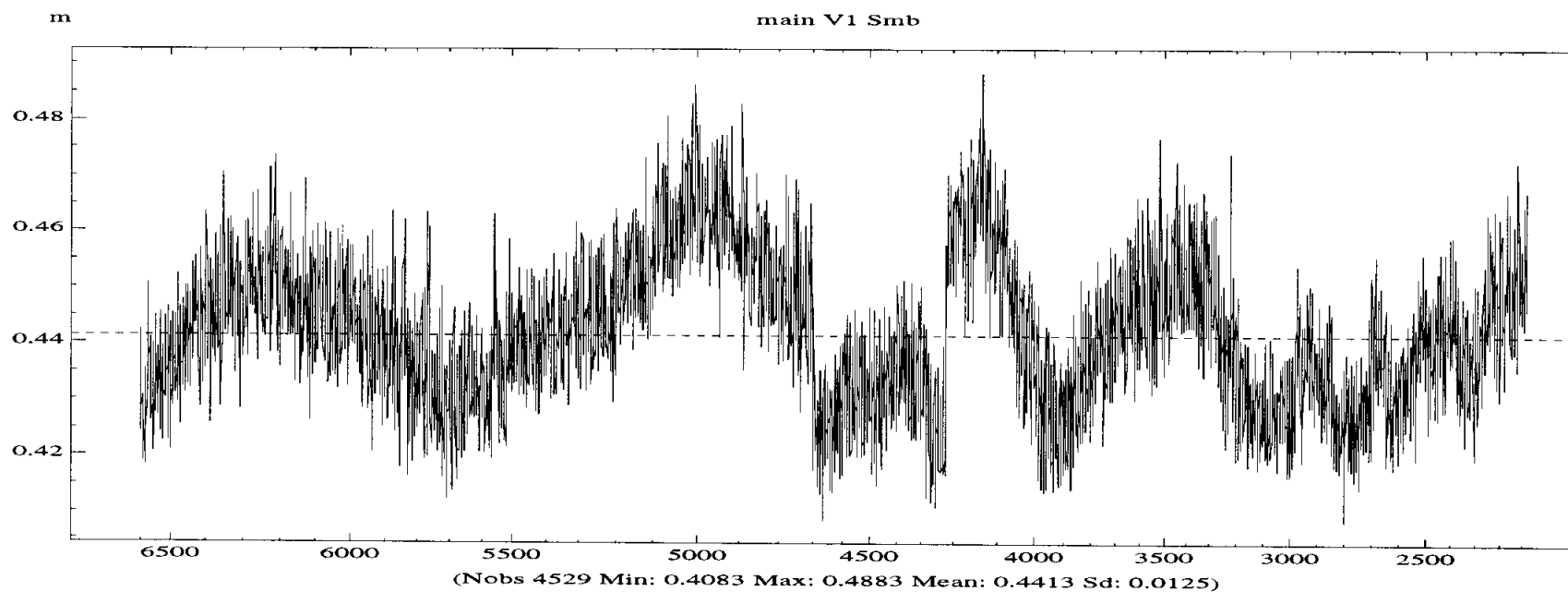
Network Name : main , Number of Missing Shots 0



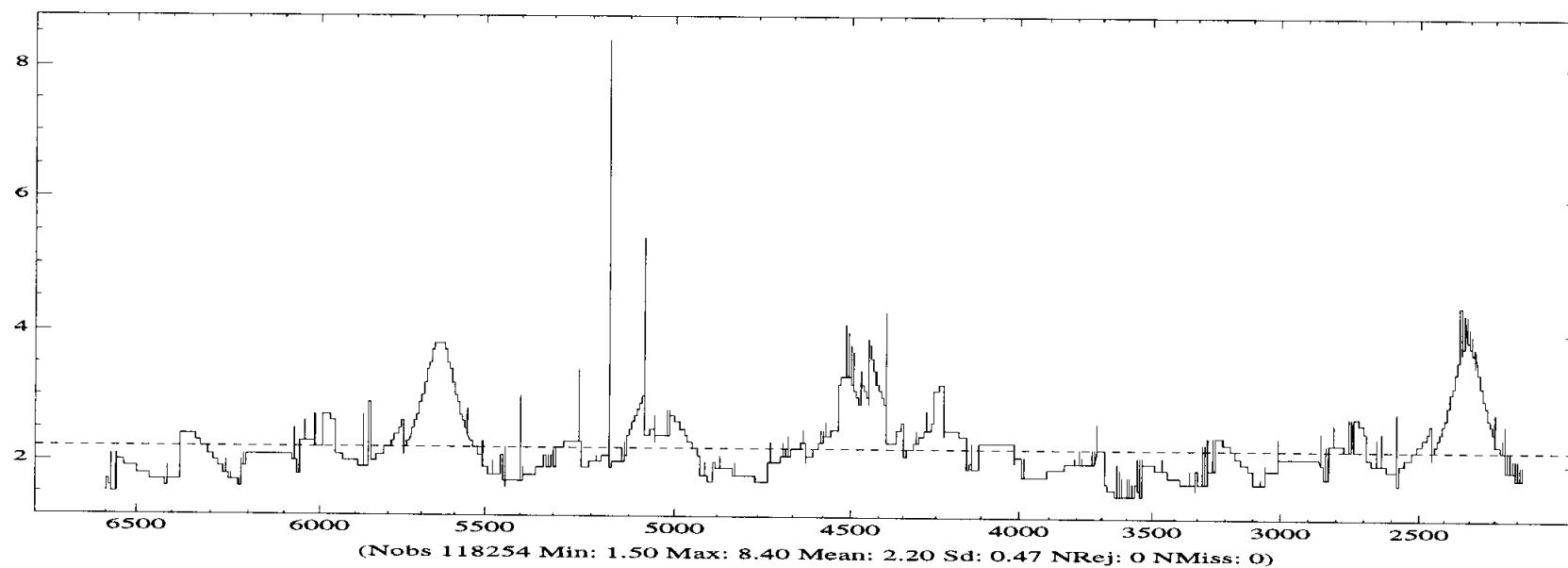
Raw: GN_SYNTRON_V2 Manifold Pressure



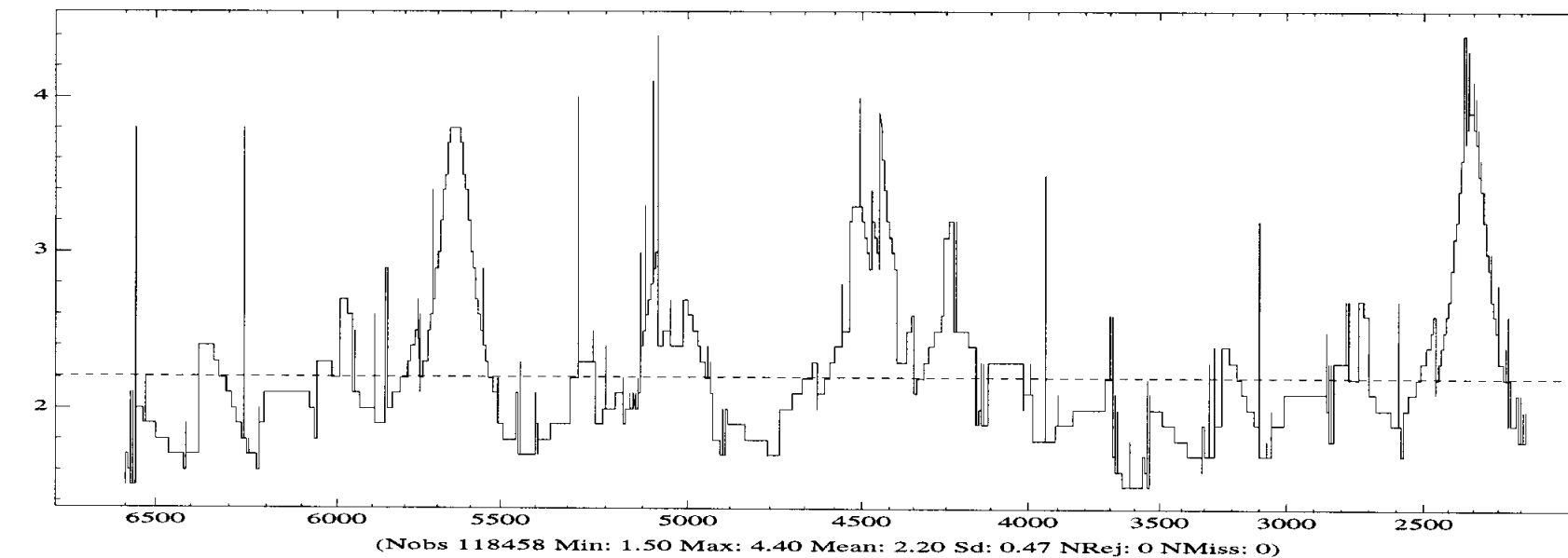




Raw: DG_TRIMBLE_PCALC PDOP

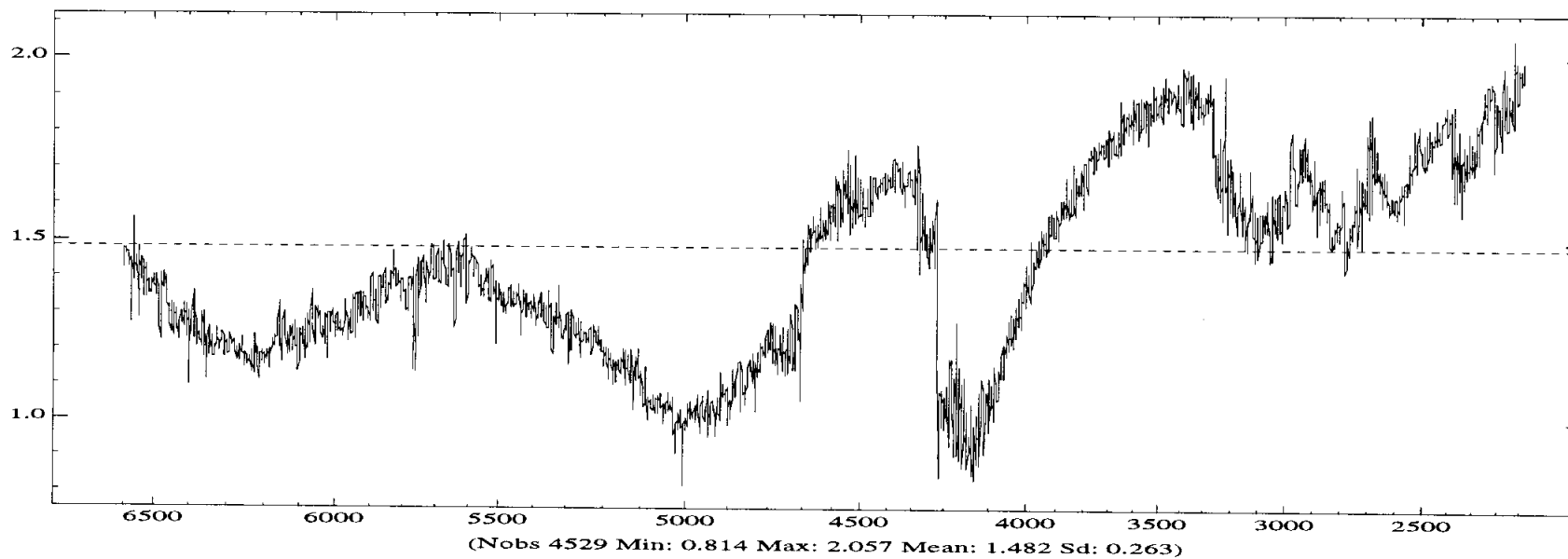


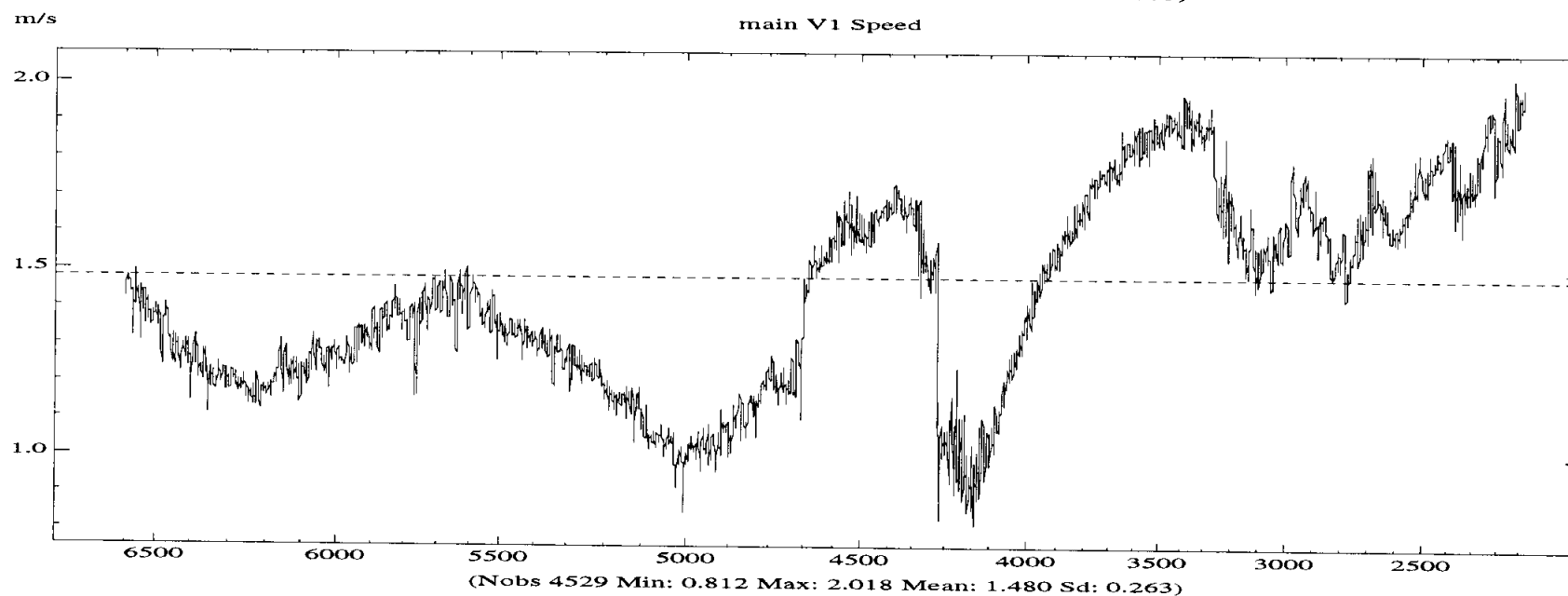
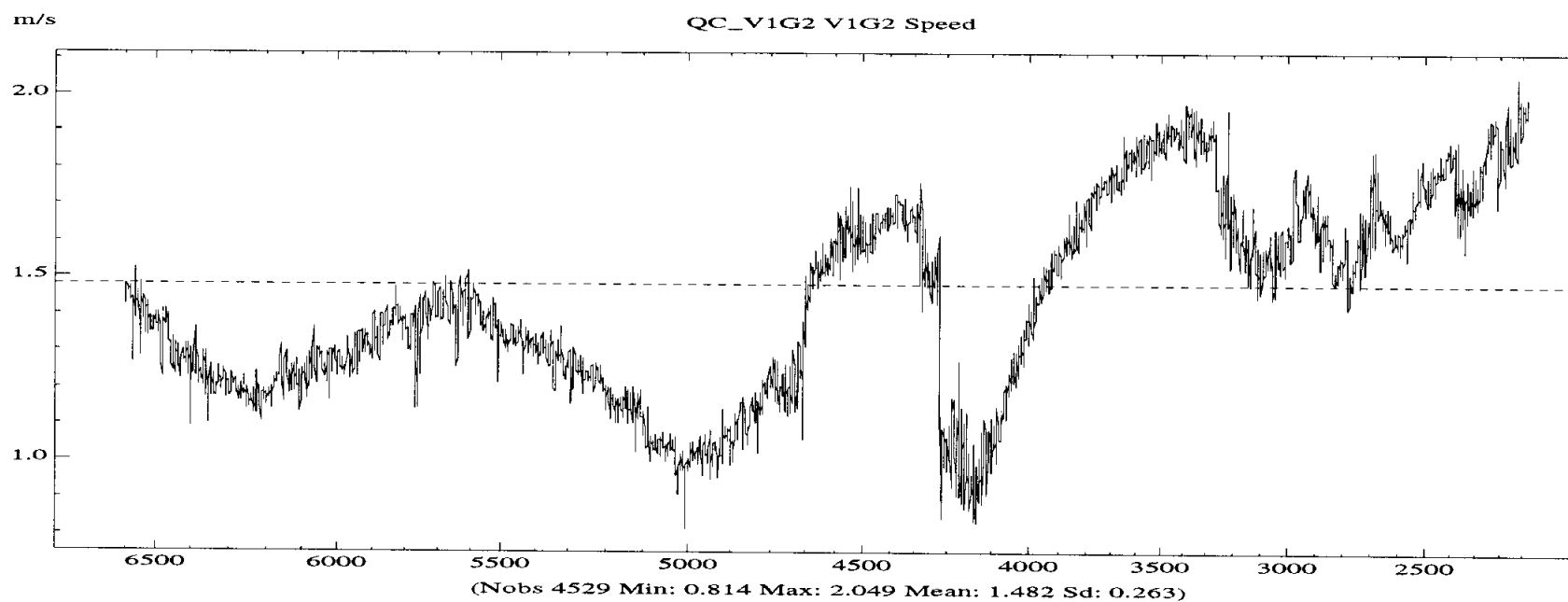
Raw: DG_TRIMBLE_PCALC#1 PDOP



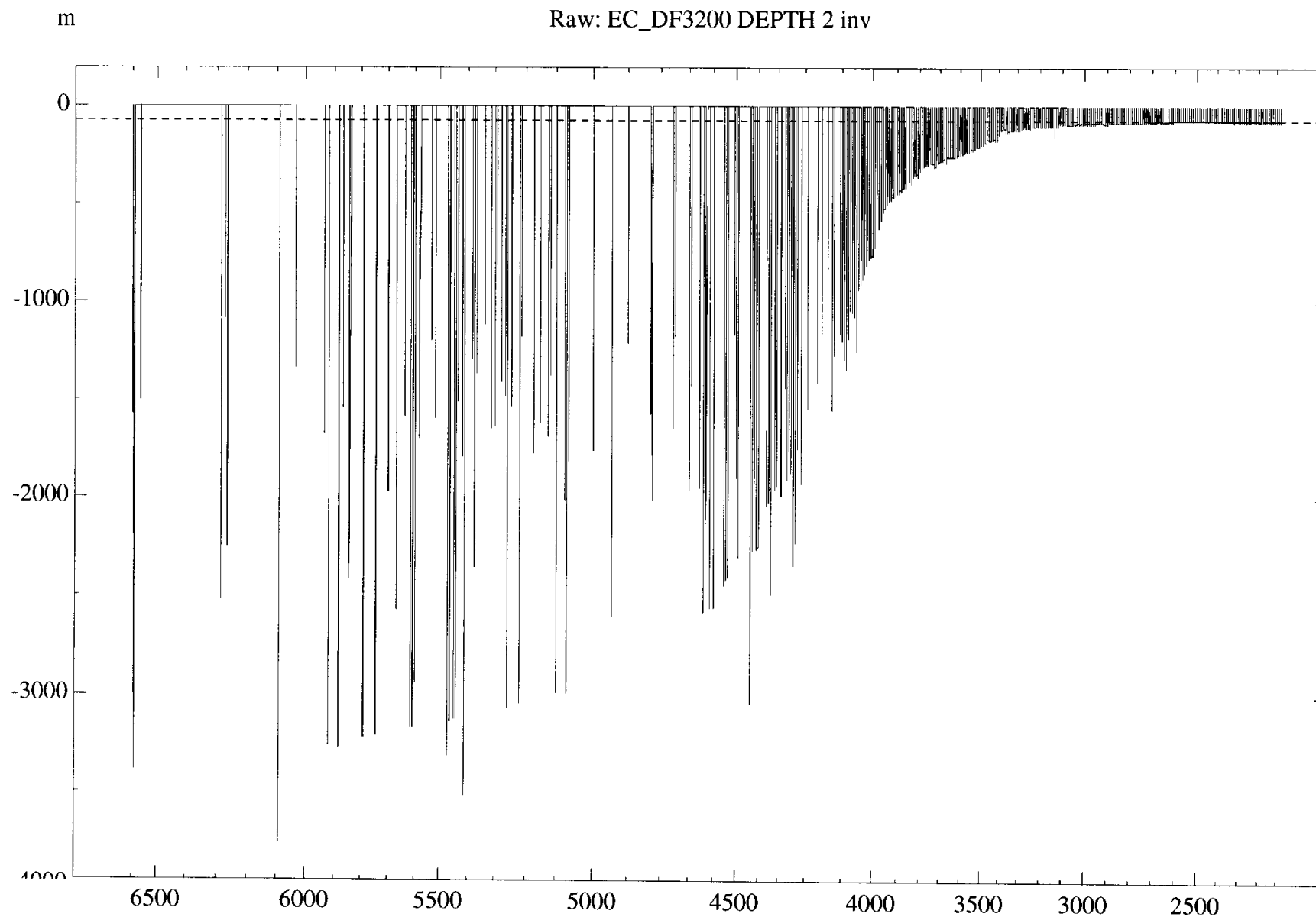
m/s

QC_V1G1 V1G1 Speed





<i>Description</i>	<i>Min</i>	<i>Max</i>	<i>Mean</i>	<i>Sd</i>	<i>Nobs/Nrej/Nmiss</i>
Raw: CM_DIGI_COMP_A #COMPASSES	13.000	13.000	13.000	0.000	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC2	193.500	218.700	208.752	5.316	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC4	193.600	216.400	208.820	5.254	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC6	194.400	215.900	208.678	5.238	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC8	195.000	215.900	209.124	5.235	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC10	195.000	215.600	208.991	5.188	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC12	195.200	217.500	210.153	5.718	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC14	194.300	220.200	208.938	5.229	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC16	194.900	217.600	209.026	5.242	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC17	195.000	217.700	209.157	5.233	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC18	194.900	218.600	209.171	5.308	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC19	194.300	216.900	208.944	5.291	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC20	193.800	221.800	209.232	5.488	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SIC21	192.700	231.700	210.304	6.447	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A #Depths	21.000	21.000	21.000	0.000	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID1	6.160	10.490	8.555	0.598	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID2	6.450	10.340	8.938	0.365	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID3	7.770	10.700	9.030	0.246	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID4	8.100	10.040	9.034	0.176	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID5	8.160	9.890	9.038	0.165	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID6	8.280	9.920	9.038	0.156	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID7	8.280	9.890	9.037	0.157	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID8	7.980	10.580	9.037	0.157	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID9	7.920	10.310	9.038	0.170	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID10	8.010	10.940	9.036	0.181	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID11	8.160	10.190	9.036	0.156	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID12	8.310	9.950	9.021	0.158	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID13	7.920	11.060	9.036	0.176	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID14	7.920	10.760	9.041	0.189	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID15	8.010	10.520	9.037	0.179	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID16	8.040	10.130	9.004	0.195	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID17	7.890	11.410	9.035	0.178	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID18	7.830	13.890	9.041	0.205	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID19	8.100	12.670	9.043	0.211	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID20	7.140	13.540	9.041	0.238	4529 / 0,0,0 / 0
Raw: CM_DIGI_COMP_A SID21	7.590	14.250	9.054	0.288	4529 / 0,0,0 / 0



(Nobs 65710 Min: -3776.00 Max: -0.00 Mean: -72.75 Sd: 141.89 NMiss: 0)

Project Information

Name NorBraz-99
Client Non-Exclusive 2D Seismic Program
Vessel Name MEZEN
Survey Type/Location 2D Seismic/Foz do Amazonas&Para-Maranhao Basins
Primary Nav System Navigation1
Secondary Nav System Navigation2
Geophysical Contractor LARGE TGS-NOPEC

Line Information

Line Name 1001-FA-226 Sequence No. 226 Direction 222.4
Date at SOL 10/09/2000 Linestatus Complete

RP to Centre Source 118.6
Centre Source to Centre of 1st Group 135.0

Line Co-Ordinates

Line Point	Latitude	Longitude
0	005 34'35.300"N	049 36'19.930"W
1	004 10'24.510"N	050 52'55.230"W

KO'd Observations at SOL

Nodes	Observations	Compasses
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Shot Information

FSP	6602	Time at FSP	18:23:39
LSP	2074	Time at LSP	03:21:28
FGSP	6602	Time at FGSP	18:23:39
LGSP	2074	Time at LGSP	03:21:28

General Comments

Line completed.

Auxiliary Systems

Auxiliary System Tape No.
p1.p2 files 89

Spectra Report

Shotlog Information

12/09/00 03:32:09

Line Name : 1001-FA-226-226.000 First Shot : 6602 Last Shot : 2074

Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
6602	18:23:39	10/09/2000	-1.0	0.1	2.8	190.8	221.9	0.0	26.5
6602	18:31:40	10/09/2000	UTC 18:23 FSP,FGSP Log speed 4.6 knots.						
6594	18:27:06	10/09/2000	-4.2	300.0	2.9	193.1	222.1	3388.0	26.6
6590	18:28:48	10/09/2000	0.1	450.0	2.8	191.8	223.8	0.0	26.6
6587	18:30:05	10/09/2000	0.0	562.6	2.9	192.5	222.6	0.0	26.6
6582	18:32:15	10/09/2000	4.6	750.1	2.8	191.7	223.4	0.0	26.5
6580	18:33:07	10/09/2000	5.7	824.9	2.8	191.8	223.5	0.0	26.5
6570	18:37:35	10/09/2000	-0.4	1199.7	2.7	189.1	220.6	0.0	26.7
6560	18:41:55	10/09/2000	2.8	1575.1	2.8	192.3	222.3	0.0	27.0
6550	18:46:25	10/09/2000	-8.1	1950.1	2.7	192.6	219.3	0.0	27.2
6540	18:50:48	10/09/2000	-2.9	2325.0	2.8	192.1	223.6	0.0	27.2
6530	18:55:18	10/09/2000	-3.8	2699.9	2.7	192.1	224.2	0.0	27.4
6520	18:59:51	10/09/2000	1.3	3075.1	2.6	190.5	224.6	0.0	27.4
6510	19:04:25	10/09/2000	-2.5	3450.1	2.7	189.9	220.5	0.0	27.5
6500	19:08:56	10/09/2000	-0.6	3825.1	2.7	190.7	223.0	0.0	27.5
6500	19:13:49	10/09/2000	Log speed 4.6 knots.						
6490	19:13:31	10/09/2000	2.4	4200.2	2.6	190.3	222.6	0.0	27.6
6480	19:18:15	10/09/2000	3.4	4575.2	2.6	189.0	221.6	0.0	27.7
6470	19:22:46	10/09/2000	2.5	4949.8	2.7	190.3	225.1	0.0	27.9
6460	19:27:25	10/09/2000	6.9	5325.1	2.5	188.8	221.4	0.0	27.9
6450	19:32:15	10/09/2000	0.9	5700.0	2.6	191.2	223.4	0.0	28.3
6440	19:37:07	10/09/2000	3.6	6074.9	2.5	189.4	223.8	0.0	28.4
6430	19:42:01	10/09/2000	6.1	6449.9	2.4	188.4	223.7	0.0	28.6
6420	19:46:57	10/09/2000	-1.4	6825.0	2.5	189.3	222.7	0.0	28.7
6410	19:51:47	10/09/2000	0.6	7200.1	2.5	189.6	223.1	0.0	28.9
6400	19:56:48	10/09/2000	1.9	7575.4	2.3	188.2	219.2	0.0	28.9
6400	19:57:48	10/09/2000	Log speed 4.5 knots.						
6390	20:01:48	10/09/2000	-5.5	7950.4	2.5	191.1	221.8	0.0	29.2
6380	20:06:43	10/09/2000	5.8	8325.1	2.4	188.0	224.2	0.0	29.1
6370	20:11:49	10/09/2000	-1.5	8700.0	2.4	188.0	220.9	0.0	29.3
6360	20:16:52	10/09/2000	1.4	9075.5	2.4	192.2	224.0	0.0	29.4
6350	20:22:07	10/09/2000	5.8	9450.7	2.2	187.4	215.7	0.0	29.4
6340	20:27:16	10/09/2000	1.7	9825.0	2.3	186.6	221.1	0.0	29.5
6330	20:32:30	10/09/2000	-1.1	10200.1	2.3	187.0	221.8	0.0	29.6
6320	20:37:37	10/09/2000	-0.1	10575.0	2.4	187.8	224.0	0.0	29.6
6310	20:42:45	10/09/2000	-1.9	10950.0	2.4	187.6	220.2	0.0	29.7
6300	20:47:55	10/09/2000	-2.4	11325.1	2.3	188.6	221.5	0.0	29.9
6300	20:53:01	10/09/2000	Log speed 4.6 knots.						
6290	20:53:09	10/09/2000	-6.0	11700.1	2.3	187.9	219.8	0.0	30.0
6280	20:58:18	10/09/2000	-5.0	12075.0	2.4	188.8	221.7	0.0	30.0
6270	21:03:33	10/09/2000	1.4	12449.9	2.3	188.0	222.8	0.0	29.9
6260	21:08:48	10/09/2000	-0.1	12825.0	2.3	188.2	222.7	0.0	30.1
6250	21:14:04	10/09/2000	2.7	13200.0	2.2	187.0	221.0	0.0	30.0
6240	21:19:25	10/09/2000	4.4	13574.9	2.3	186.0	220.8	0.0	30.0
6230	21:24:50	10/09/2000	-0.9	13950.1	2.3	187.0	220.3	0.0	30.1
6220	21:30:11	10/09/2000	-4.4	14325.3	2.3	186.9	223.7	0.0	30.1
6210	21:35:36	10/09/2000	-1.4	14699.8	2.3	187.8	221.4	0.0	30.1
6200	21:40:55	10/09/2000	-0.3	15075.0	2.3	186.3	220.9	0.0	30.1
6200	21:41:21	10/09/2000	Log speed 4.7 knots.						

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
6190	21:46:14	10/09/2000	-0.8	15450.2	2.3	188.0	223.1	0.0	30.2
6180	21:51:32	10/09/2000	-4.0	15825.1	2.3	188.5	222.3	0.0	30.2
6170	21:56:40	10/09/2000	-2.5	16200.1	2.4	188.7	223.0	0.0	30.3
6160	22:01:41	10/09/2000	-4.8	16574.9	2.5	192.4	225.4	0.0	30.6
6150	22:06:47	10/09/2000	-3.8	16949.9	2.4	188.3	218.8	0.0	30.5
6140	22:11:44	10/09/2000	4.5	17325.1	2.4	188.7	224.4	0.0	30.5
6130	22:16:55	10/09/2000	-1.5	17699.8	2.3	188.7	220.6	0.0	30.6
6120	22:21:59	10/09/2000	-0.9	18075.2	2.3	188.0	221.3	0.0	30.6
6110	22:27:06	10/09/2000	1.4	18450.1	2.4	189.8	222.5	0.0	30.7
6100	22:32:16	10/09/2000	2.8	18825.1	2.4	187.5	222.8	0.0	30.6
6100	22:32:40	10/09/2000	Log speed 4.5 knots.						
6090	22:37:23	10/09/2000	-1.0	19200.6	2.3	187.9	218.0	0.0	30.6
6080	22:42:30	10/09/2000	-7.2	19575.3	2.4	190.9	221.8	0.0	30.8
6070	22:47:27	10/09/2000	-2.9	19949.6	2.6	190.2	225.0	0.0	30.8
6060	22:52:21	10/09/2000	-0.1	20324.8	2.5	188.2	222.6	0.0	30.8
6050	22:57:10	10/09/2000	-1.5	20700.1	2.5	188.0	222.2	0.0	30.9
6040	23:02:08	10/09/2000	3.2	21075.1	2.4	187.8	223.3	0.0	30.8
6030	23:07:12	10/09/2000	0.5	21450.2	2.4	187.1	220.9	0.0	31.0
6020	23:12:12	10/09/2000	-1.7	21824.6	2.5	185.7	225.1	0.0	31.1
6010	23:17:06	10/09/2000	0.5	22200.1	2.5	186.5	221.8	0.0	31.1
6000	23:22:02	10/09/2000	2.1	22575.0	2.4	187.3	221.6	0.0	31.2
6000	23:22:26	10/09/2000	Log speed 4.5 knots.						
5990	23:26:59	10/09/2000	0.7	22950.2	2.4	187.0	221.0	0.0	31.2
5980	23:31:58	10/09/2000	1.5	23324.9	2.4	185.2	221.4	0.0	31.3
5970	23:36:50	10/09/2000	1.8	23700.0	2.5	187.0	222.9	0.0	31.4
5960	23:41:45	10/09/2000	3.2	24075.0	2.5	185.9	223.0	0.0	31.4
5950	23:46:38	10/09/2000	2.9	24449.9	2.6	188.1	224.8	0.0	31.6
5940	23:51:25	10/09/2000	-0.9	24824.8	2.6	186.0	223.8	0.0	31.6
5930	23:56:10	10/09/2000	-3.6	25200.0	2.6	186.3	222.0	0.0	31.7
5923	23:59:28	10/09/2000	-0.1	25462.4	2.6	186.0	223.8	0.0	31.7
5922	23:59:58	10/09/2000	-0.6	25500.1	2.5	186.4	222.3	0.0	31.7
5922	00:03:32	11/09/2000	UTC 23:59:58 MSP Log speed 4.6 knots.						
5910	00:05:39	11/09/2000	3.6	25950.1	2.5	185.8	221.6	0.0	31.9
5900	00:10:28	11/09/2000	-6.8	26324.9	2.6	187.9	222.1	0.0	32.1
5900	00:18:14	11/09/2000	Log speed 4.6 knots.						
5890	00:15:05	11/09/2000	1.4	26700.0	2.6	187.0	224.1	0.0	32.1
5880	00:19:49	11/09/2000	-0.0	27075.1	2.5	185.8	219.8	0.0	32.0
5870	00:24:29	11/09/2000	-1.9	27450.2	2.6	187.0	221.2	0.0	32.2
5860	00:29:01	11/09/2000	-4.2	27825.2	2.7	189.5	221.4	0.0	32.3
5850	00:33:37	11/09/2000	1.8	28199.9	2.6	187.2	223.1	0.0	32.2
5840	00:38:12	11/09/2000	-3.6	28575.1	2.7	188.0	221.8	0.0	32.8
5830	00:42:36	11/09/2000	-0.2	28949.9	2.8	188.8	225.2	0.0	33.3
5820	00:47:04	11/09/2000	1.9	29325.0	2.7	187.7	222.6	0.0	33.1
5810	00:51:36	11/09/2000	3.1	29700.1	2.6	185.7	221.0	0.0	33.0
5800	00:56:08	11/09/2000	4.1	30074.9	2.7	186.6	223.7	0.0	33.0
5800	00:56:42	11/09/2000	Log speed 4.4 knots.						
5790	01:00:47	11/09/2000	3.8	30450.2	2.5	184.2	221.1	0.0	32.9
5780	01:05:22	11/09/2000	0.9	30825.1	2.7	186.2	220.7	0.0	32.9
5770	01:09:58	11/09/2000	15.4	31200.3	2.4	177.8	225.4	0.0	32.9

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
5760	01:15:03	11/09/2000	-5.3	31575.1	2.7	187.9	224.3	0.0	32.9
5750	01:19:37	11/09/2000	-3.4	31949.9	2.7	187.1	222.8	0.0	33.0
5740	01:23:58	11/09/2000	3.2	32325.0	2.8	187.0	223.9	0.0	33.0
5730	01:28:28	11/09/2000	-1.6	32700.0	2.7	186.7	221.5	0.0	33.1
5720	01:32:56	11/09/2000	-3.1	33075.1	2.7	186.7	222.1	0.0	33.3
5710	01:37:14	11/09/2000	2.6	33450.2	2.8	186.8	223.2	0.0	33.4
5700	01:41:38	11/09/2000	-2.0	33825.0	2.7	185.6	220.4	0.0	33.6
5700	01:42:10	11/09/2000	Log speed 4.4 knots.						
5690	01:45:57	11/09/2000	4.6	34200.0	2.7	185.1	223.8	0.0	33.7
5680	01:50:20	11/09/2000	-5.9	34575.0	2.8	186.3	221.2	0.0	33.8
5670	01:54:38	11/09/2000	5.0	34950.1	2.7	185.1	222.2	0.0	33.8
5660	01:59:09	11/09/2000	-1.2	35324.9	2.7	185.2	221.2	0.0	33.8
5650	02:03:30	11/09/2000	4.3	35700.2	2.7	185.2	220.8	0.0	33.8
5640	02:08:04	11/09/2000	-0.4	36075.4	2.5	183.1	217.0	0.0	33.9
5630	02:12:32	11/09/2000	3.6	36449.7	2.9	185.6	225.7	0.0	34.1
5620	02:16:57	11/09/2000	0.9	36825.1	2.7	183.9	219.8	0.0	34.2
5610	02:21:20	11/09/2000	-2.2	37200.1	2.8	187.5	222.6	0.0	34.3
5600	02:25:43	11/09/2000	0.1	37575.0	2.6	183.8	220.2	0.0	34.3
5600	02:26:16	11/09/2000	Log speed 4.6 knots.						
5590	02:30:06	11/09/2000	-2.2	37950.0	2.8	186.8	223.4	0.0	34.4
5580	02:34:24	11/09/2000	4.4	38325.2	2.7	184.8	221.5	0.0	34.5
5570	02:38:46	11/09/2000	0.5	38700.3	2.8	185.5	221.3	0.0	34.5
5560	02:43:12	11/09/2000	2.3	39075.1	2.7	185.0	222.8	0.0	34.6
5550	02:47:47	11/09/2000	3.1	39450.2	2.6	182.6	219.5	0.0	34.7
5540	02:52:18	11/09/2000	-1.9	39824.9	2.7	184.4	221.9	0.0	35.0
5530	02:56:49	11/09/2000	1.1	40200.3	2.6	183.4	221.5	0.0	35.2
5520	03:01:17	11/09/2000	7.4	40574.9	2.7	184.8	224.2	0.0	35.2
5510	03:05:57	11/09/2000	1.1	40949.8	2.6	183.3	219.8	0.0	35.3
5500	03:10:35	11/09/2000	-5.3	41325.0	2.7	185.3	223.5	0.0	35.5
5500	03:10:50	11/09/2000	Log speed 4.4 knots.						
5490	03:15:16	11/09/2000	1.9	41700.0	2.5	182.2	222.5	0.0	35.7
5480	03:20:01	11/09/2000	2.2	42075.1	2.6	183.8	222.5	0.0	35.9
5470	03:24:43	11/09/2000	2.2	42449.9	2.6	184.0	222.9	0.0	36.2
5460	03:29:23	11/09/2000	1.6	42825.1	2.6	183.0	220.4	0.0	36.3
5450	03:34:04	11/09/2000	4.2	43200.1	2.6	183.3	222.0	0.0	36.5
5440	03:38:42	11/09/2000	2.7	43575.2	2.6	184.7	223.6	0.0	36.7
5430	03:43:31	11/09/2000	1.6	43950.1	2.5	183.0	220.3	0.0	36.9
5420	03:48:11	11/09/2000	4.7	44325.2	2.5	181.7	221.4	0.0	37.1
5410	03:52:56	11/09/2000	3.4	44700.1	2.6	182.6	224.0	0.0	37.2
5400	03:57:44	11/09/2000	0.6	45075.2	2.5	182.3	221.9	0.0	37.3
5400	03:58:05	11/09/2000	Log speed 4.5 knots.						
5390	04:02:31	11/09/2000	4.6	45450.1	2.5	181.9	221.7	0.0	37.3
5380	04:07:20	11/09/2000	-2.7	45825.1	2.6	182.4	221.3	0.0	37.4
5370	04:12:06	11/09/2000	0.5	46200.1	2.5	182.4	223.8	0.0	37.5
5360	04:16:55	11/09/2000	9.6	46574.8	2.5	181.1	223.9	0.0	37.7
5350	04:21:43	11/09/2000	-1.7	46949.9	2.5	182.2	222.6	0.0	37.9
5340	04:26:44	11/09/2000	1.8	47325.2	2.4	180.7	220.1	0.0	38.1
5330	04:31:35	11/09/2000	-3.8	47700.2	2.5	181.0	223.3	0.0	38.3
5320	04:36:26	11/09/2000	-3.1	48075.0	2.5	180.4	223.5	0.0	38.5

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
5310	04:41:28	11/09/2000	3.1	48450.1	2.4	180.2	222.7	0.0	38.8
5300	04:46:25	11/09/2000	2.4	48825.0	2.5	181.3	224.4	0.0	39.0
5300	04:46:40	11/09/2000	Log speed 4.4 knots.						
5290	04:51:27	11/09/2000	-0.9	49200.2	2.4	179.3	221.8	0.0	39.2
5280	04:56:24	11/09/2000	-0.9	49574.9	2.4	180.1	223.8	0.0	39.3
5270	05:01:25	11/09/2000	0.6	49950.1	2.4	180.7	221.1	1473.0	39.5
5260	05:06:25	11/09/2000	2.4	50324.9	2.5	180.1	223.5	0.0	39.6
5250	05:11:28	11/09/2000	4.1	50700.1	2.4	178.5	221.3	0.0	39.8
5240	05:16:35	11/09/2000	0.4	51075.1	2.4	178.4	219.8	0.0	40.0
5230	05:21:41	11/09/2000	-3.8	51450.1	2.3	179.5	221.2	0.0	40.1
5220	05:26:41	11/09/2000	-4.1	51825.0	2.4	180.2	221.7	0.0	40.3
5210	05:31:46	11/09/2000	-0.6	52200.2	2.4	179.6	223.3	0.0	40.4
5200	05:36:58	11/09/2000	4.0	52575.0	2.3	178.3	222.9	0.0	40.5
5200	05:38:45	11/09/2000	Log speed 4.5 knots.						
5190	05:42:16	11/09/2000	5.5	52949.9	2.3	178.0	222.5	0.0	40.7
5180	05:47:39	11/09/2000	1.7	53325.0	2.3	179.6	222.9	0.0	40.9
5170	05:53:06	11/09/2000	-1.1	53700.0	2.2	178.3	220.4	0.0	41.1
5160	05:58:34	11/09/2000	-0.5	54074.8	2.3	178.5	224.9	0.0	41.4
5150	06:04:00	11/09/2000	0.8	54450.0	2.3	178.6	223.2	0.0	41.6
5140	06:09:27	11/09/2000	-0.5	54824.9	2.3	178.6	221.8	0.0	41.8
5130	06:14:52	11/09/2000	1.3	55200.0	2.2	177.7	223.0	0.0	41.9
5120	06:20:28	11/09/2000	3.3	55575.4	2.0	176.7	219.1	0.0	42.0
5110	06:25:54	11/09/2000	0.6	55949.8	2.3	179.6	224.3	0.0	42.2
5100	06:31:29	11/09/2000	5.0	56325.0	2.1	178.2	223.7	0.0	42.2
5100	06:31:44	11/09/2000	Log speed 4.6 knots.						
5090	06:37:20	11/09/2000	1.9	56700.2	2.0	176.9	220.5	0.0	42.3
5080	06:43:14	11/09/2000	0.6	57075.2	2.0	175.4	220.1	0.0	42.6
5070	06:49:12	11/09/2000	-2.3	57450.1	2.0	174.5	223.1	0.0	43.1
5060	06:55:12	11/09/2000	0.1	57825.3	2.0	175.2	222.5	0.0	43.4
5050	07:01:07	11/09/2000	-1.5	58200.0	2.0	176.6	224.8	0.0	43.6
5040	07:07:13	11/09/2000	-1.1	58575.0	2.0	176.9	222.4	0.0	43.8
5030	07:13:13	11/09/2000	1.7	58950.3	2.0	175.2	221.3	0.0	44.0
5020	07:19:28	11/09/2000	3.4	59325.2	1.8	173.3	218.4	0.0	44.2
5010	07:25:50	11/09/2000	2.7	59700.2	1.9	174.5	222.3	0.0	44.6
5000	07:32:24	11/09/2000	-1.5	60075.0	1.9	172.8	220.5	0.0	44.8
5000	07:32:38	11/09/2000	Log speed 4.6 knots.						
4990	07:38:39	11/09/2000	-4.7	60450.0	2.0	174.9	223.4	0.0	45.3
4980	07:44:44	11/09/2000	-2.8	60825.0	2.0	173.3	221.9	0.0	45.4
4970	07:50:49	11/09/2000	-1.4	61200.1	2.1	175.3	224.9	0.0	45.5
4960	07:57:00	11/09/2000	-7.7	61575.1	2.0	175.6	222.5	0.0	45.6
4950	08:03:04	11/09/2000	-5.7	61950.1	2.0	175.7	221.9	0.0	45.8
4940	08:09:12	11/09/2000	0.7	62325.1	1.9	174.1	223.3	0.0	46.0
4930	08:15:17	11/09/2000	7.7	62700.2	1.9	173.2	223.2	0.0	46.3
4920	08:21:26	11/09/2000	-2.0	63075.4	2.0	172.9	220.1	0.0	46.5
4910	08:27:14	11/09/2000	-0.8	63449.9	2.1	175.1	222.6	0.0	46.5
4900	08:33:03	11/09/2000	5.3	63825.2	2.0	171.9	221.5	0.0	46.3
4900	08:33:17	11/09/2000	Log speed 4.5 knots.						
4890	08:39:07	11/09/2000	0.8	64200.0	2.0	173.5	220.1	0.0	46.3
4880	08:44:49	11/09/2000	-2.6	64575.0	2.1	173.5	220.4	0.0	46.3

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
4870	08:50:17	11/09/2000	5.7	64949.9	2.2	172.7	224.0	0.0	46.2
4860	08:55:57	11/09/2000	5.5	65325.1	2.1	171.5	221.2	0.0	46.2
4850	09:01:42	11/09/2000	-2.2	65700.1	2.2	173.8	221.0	0.0	46.2
4840	09:07:11	11/09/2000	2.1	66075.2	2.2	173.0	223.0	0.0	46.2
4830	09:12:49	11/09/2000	-0.7	66450.0	2.2	173.6	220.8	0.0	46.1
4820	09:18:14	11/09/2000	-3.1	66824.7	2.3	176.1	223.9	0.0	46.2
4810	09:23:30	11/09/2000	-1.5	67200.0	2.3	175.2	222.8	0.0	46.3
4800	09:28:41	11/09/2000	-1.1	67574.7	2.4	176.5	225.1	0.0	46.3
4800	09:28:53	11/09/2000	Log speed 4.8 knots.						
4790	09:33:48	11/09/2000	-3.1	67949.9	2.4	177.4	222.8	0.0	46.3
4780	09:38:55	11/09/2000	1.3	68325.2	2.3	176.9	222.5	0.0	46.2
4770	09:44:13	11/09/2000	0.6	68700.0	2.2	174.1	220.2	0.0	46.0
4760	09:49:27	11/09/2000	-3.2	69075.5	2.3	178.0	220.9	0.0	45.9
4750	09:54:42	11/09/2000	-2.8	69450.3	2.3	175.1	221.9	0.0	45.7
4740	09:59:59	11/09/2000	-2.5	69825.5	2.3	178.0	221.2	0.0	45.5
4730	10:05:03	11/09/2000	2.1	70200.0	2.3	175.7	223.6	0.0	45.1
4720	10:10:11	11/09/2000	-5.4	70574.9	2.6	178.5	223.6	0.0	44.8
4710	10:15:08	11/09/2000	-1.6	70949.9	2.4	177.4	222.5	0.0	44.5
4700	10:19:55	11/09/2000	-4.6	71325.3	2.7	188.0	224.3	0.0	44.3
4700	10:20:14	11/09/2000	Log speed 4.5 knots.						
4690	10:24:15	11/09/2000	0.0	71700.0	2.8	186.9	222.7	0.0	43.8
4680	10:28:28	11/09/2000	-1.7	72075.3	2.9	188.0	222.9	0.0	43.4
4670	10:32:37	11/09/2000	-1.9	72450.0	3.0	188.5	223.5	0.0	42.9
4660	10:36:43	11/09/2000	1.1	72825.3	2.9	187.4	220.6	0.0	42.4
4650	10:40:50	11/09/2000	-1.3	73199.9	3.0	187.3	222.4	0.0	41.9
4640	10:44:53	11/09/2000	-0.1	73575.0	3.0	187.5	222.5	0.0	41.5
4630	10:48:59	11/09/2000	-1.5	73950.1	3.0	186.5	222.1	0.0	41.1
4620	10:53:03	11/09/2000	-1.7	74325.1	2.9	189.1	222.1	0.0	40.6
4610	10:57:03	11/09/2000	1.6	74700.1	3.0	188.5	222.4	0.0	39.8
4600	11:01:02	11/09/2000	-1.3	75075.1	3.1	189.2	222.0	0.0	38.7
4600	11:02:23	11/09/2000	Log speed 4.6 knots.						
4590	11:05:01	11/09/2000	-2.1	75450.2	3.1	189.8	220.3	0.0	37.7
4580	11:08:55	11/09/2000	-1.3	75824.7	3.2	191.1	224.9	0.0	36.8
4570	11:12:48	11/09/2000	1.0	76199.8	3.1	187.9	221.3	0.0	36.1
4560	11:16:38	11/09/2000	1.0	76575.1	3.2	189.2	222.4	0.0	35.6
4550	11:20:26	11/09/2000	2.3	76950.2	3.2	189.3	222.5	0.0	35.0
4540	11:24:15	11/09/2000	3.8	77325.3	3.2	191.2	222.9	0.0	34.6
4530	11:28:07	11/09/2000	5.7	77700.4	3.1	187.2	222.3	0.0	34.1
4520	11:32:01	11/09/2000	-1.8	78074.9	3.2	192.3	224.4	0.0	33.7
4510	11:35:54	11/09/2000	-1.8	78450.1	3.1	187.9	221.3	0.0	33.4
4500	11:39:45	11/09/2000	-2.6	78825.0	3.2	190.1	223.0	0.0	33.1
4500	11:39:59	11/09/2000	Log speed 4.6 knots.						
4490	11:43:40	11/09/2000	-2.9	79199.9	3.1	190.3	222.1	2300.0	32.9
4480	11:47:37	11/09/2000	-3.8	79575.1	3.0	189.8	221.6	0.0	32.7
4470	11:51:30	11/09/2000	-2.7	79949.9	3.1	189.3	223.2	0.0	32.4
4460	11:55:22	11/09/2000	2.5	80324.8	3.2	189.3	224.7	0.0	32.2
4450	11:59:16	11/09/2000	-3.4	80700.0	3.2	192.0	223.6	0.0	31.9
4440	12:03:03	11/09/2000	1.2	81075.2	3.2	189.7	222.6	0.0	31.8
4430	12:06:52	11/09/2000	-1.2	81450.0	3.2	191.7	223.2	0.0	31.6

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
4420	12:10:38	11/09/2000	-0.1	81825.0	3.2	190.8	222.1	0.0	31.3
4410	12:14:23	11/09/2000	2.5	82200.1	3.3	190.4	222.7	0.0	31.2
4400	12:18:09	11/09/2000	-0.0	82574.9	3.3	189.3	222.7	0.0	31.1
4400	12:18:27	11/09/2000	Log speed 4.6 knots.						
4390	12:21:52	11/09/2000	2.5	82949.9	3.2	188.7	222.4	0.0	30.9
4380	12:25:37	11/09/2000	-2.4	83325.0	3.3	190.5	222.4	0.0	30.8
4370	12:29:16	11/09/2000	1.1	83700.1	3.2	187.7	220.5	0.0	30.6
4360	12:32:57	11/09/2000	0.3	84075.1	3.3	189.9	221.7	0.0	30.4
4350	12:36:39	11/09/2000	2.1	84450.0	3.3	189.7	222.7	0.0	30.2
4340	12:40:25	11/09/2000	-1.1	84825.0	3.3	192.1	224.2	0.0	30.0
4330	12:44:13	11/09/2000	-0.5	85200.1	3.2	189.1	220.9	0.0	29.8
4320	12:47:59	11/09/2000	-3.7	85575.0	3.2	189.9	221.7	0.0	29.8
4310	12:51:43	11/09/2000	2.8	85950.1	3.2	189.9	222.2	0.0	29.8
4300	12:55:30	11/09/2000	-1.0	86325.1	3.2	188.0	221.1	0.0	29.8
4300	12:55:45	11/09/2000	Log speed 4.6 knots.						
4290	12:59:17	11/09/2000	6.5	86700.0	3.3	190.4	226.1	0.0	29.7
4280	13:03:16	11/09/2000	8.4	87074.6	3.0	185.4	227.3	0.0	29.5
4270	13:07:18	11/09/2000	2.6	87449.5	3.1	190.7	226.6	0.0	29.5
4260	13:11:26	11/09/2000	1.5	87825.3	2.9	189.6	221.8	0.0	29.5
4250	13:15:36	11/09/2000	-1.5	88199.9	2.9	190.2	222.8	0.0	29.4
4240	13:19:46	11/09/2000	-0.3	88575.0	3.0	190.8	223.4	0.0	29.5
4230	13:23:57	11/09/2000	-0.6	88949.9	2.9	191.1	224.0	0.0	29.7
4220	13:28:09	11/09/2000	5.4	89324.5	2.8	188.6	226.5	0.0	29.7
4210	13:34:15	11/09/2000	-5.3	89700.0	2.0	199.1	220.3	0.0	29.4
4200	13:40:18	11/09/2000	2.1	90074.9	2.0	197.2	218.2	0.0	29.7
4200	13:40:48	11/09/2000	Log speed 4.6 knots.						
4190	13:46:20	11/09/2000	0.1	90449.8	2.1	195.9	227.0	0.0	29.7
4180	13:52:27	11/09/2000	1.3	90825.6	1.9	194.8	209.1	0.0	30.2
4170	13:58:19	11/09/2000	21.9	91200.0	2.1	192.2	222.9	0.0	30.5
4160	14:04:37	11/09/2000	8.1	91575.0	2.1	196.7	226.5	0.0	30.6
4150	14:11:04	11/09/2000	8.9	91949.7	1.9	192.7	228.4	0.0	29.1
4140	14:18:00	11/09/2000	-3.0	92325.3	1.7	195.7	215.4	0.0	27.5
4130	14:24:48	11/09/2000	1.9	92700.3	1.7	196.5	223.5	0.0	27.6
4120	14:31:15	11/09/2000	1.0	93074.5	1.9	194.3	225.0	0.0	27.7
4110	14:37:22	11/09/2000	-7.3	93450.4	1.8	193.7	212.9	0.0	27.4
4100	14:43:27	11/09/2000	-0.2	93825.0	2.0	197.3	230.7	1201.0	27.5
4100	14:43:37	11/09/2000	Log speed 4.3 knots.						
4090	14:49:27	11/09/2000	0.3	94199.9	2.0	193.7	222.4	0.0	27.5
4080	14:55:14	11/09/2000	1.4	94575.2	2.1	195.2	221.8	0.0	27.9
4070	15:00:48	11/09/2000	0.4	94950.0	2.2	194.8	223.3	0.0	28.5
4060	15:06:07	11/09/2000	3.2	95324.8	2.3	193.5	223.1	0.0	29.1
4050	15:11:15	11/09/2000	-0.6	95699.7	2.5	196.6	228.6	0.0	29.6
4040	15:16:14	11/09/2000	-2.7	96075.2	2.4	197.5	219.4	0.0	30.0
4030	15:21:11	11/09/2000	-2.1	96449.8	2.5	195.2	225.3	0.0	30.3
4020	15:26:01	11/09/2000	-2.1	96824.9	2.6	195.8	224.1	0.0	30.5
4010	15:30:45	11/09/2000	1.6	97200.0	2.6	195.5	222.4	0.0	30.5
4000	15:35:19	11/09/2000	-0.1	97575.2	2.6	195.1	221.1	747.0	30.4
4000	15:35:46	11/09/2000	Log speed 4.6 knots.						
3990	15:39:52	11/09/2000	-3.2	97950.1	2.7	197.2	220.7	701.0	30.5

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
3980	15:44:22	11/09/2000	2.5	98325.4	2.7	196.6	220.3	0.0	30.4
3970	15:48:44	11/09/2000	5.4	98699.9	2.8	196.5	222.8	575.0	30.3
3960	15:53:01	11/09/2000	3.7	99074.9	2.9	197.3	223.8	0.0	30.2
3950	15:57:17	11/09/2000	-2.0	99450.2	2.9	197.9	221.6	513.0	30.1
3940	16:01:27	11/09/2000	0.4	99825.0	2.9	197.2	221.9	494.0	29.9
3930	16:05:37	11/09/2000	-3.4	100200.1	2.9	197.0	221.4	0.0	29.7
3920	16:09:44	11/09/2000	-3.7	100575.0	3.0	197.8	223.6	0.0	29.6
3910	16:13:45	11/09/2000	8.8	100950.0	3.0	195.2	223.5	0.0	29.3
3900	16:17:49	11/09/2000	4.6	101324.9	3.1	195.0	224.4	441.0	29.2
3900	16:18:16	11/09/2000	Log speed 4.5 knots.						
3890	16:21:55	11/09/2000	-1.6	101699.9	2.9	197.0	220.8	435.0	29.0
3880	16:25:54	11/09/2000	-3.5	102074.9	3.1	197.5	223.3	424.0	28.9
3870	16:29:49	11/09/2000	-0.5	102450.2	3.1	197.0	223.2	0.0	28.7
3860	16:33:43	11/09/2000	7.9	102825.0	3.1	194.3	223.2	0.0	28.3
3850	16:37:39	11/09/2000	-3.5	103200.4	3.1	199.3	221.2	0.0	28.4
3840	16:41:33	11/09/2000	-6.8	103575.1	3.1	201.3	222.2	375.0	28.5
3830	16:45:22	11/09/2000	-4.9	103949.8	3.2	198.8	223.0	0.0	28.4
3820	16:49:08	11/09/2000	4.6	104325.1	3.2	197.3	222.2	355.0	28.1
3810	16:52:56	11/09/2000	4.8	104700.1	3.2	196.2	221.9	0.0	28.0
3800	16:56:44	11/09/2000	3.1	105074.9	3.2	195.9	221.3	0.0	27.9
3800	16:57:40	11/09/2000	Log speed 4.7 knots.						
3790	17:00:26	11/09/2000	1.9	105450.2	3.3	196.5	220.6	0.0	27.7
3780	17:04:10	11/09/2000	-4.7	105824.9	3.3	197.4	222.8	311.0	27.7
3770	17:07:46	11/09/2000	-4.9	106200.1	3.4	198.7	222.9	303.0	27.6
3760	17:11:23	11/09/2000	-6.7	106575.1	3.3	199.2	220.6	0.0	27.5
3750	17:15:01	11/09/2000	-2.6	106950.1	3.3	199.2	222.3	292.0	27.3
3740	17:18:35	11/09/2000	2.6	107325.1	3.4	197.5	224.0	295.0	27.2
3730	17:22:08	11/09/2000	-0.8	107700.1	3.4	197.1	221.8	0.0	27.1
3720	17:25:42	11/09/2000	-1.9	108074.8	3.4	198.9	224.5	0.0	27.1
3710	17:29:16	11/09/2000	-4.9	108450.4	3.4	198.1	220.4	285.0	27.0
3700	17:32:49	11/09/2000	-6.4	108825.1	3.4	199.9	221.2	0.0	27.1
3700	17:33:35	11/09/2000	Log speed 4.5 knots.						
3690	17:36:22	11/09/2000	-1.2	109200.3	3.4	197.9	220.5	270.0	27.0
3680	17:39:51	11/09/2000	0.1	109574.9	3.5	197.4	222.4	269.0	27.0
3670	17:43:25	11/09/2000	-2.1	109950.1	3.4	198.1	221.8	266.0	27.0
3660	17:46:57	11/09/2000	-0.3	110325.1	3.5	198.3	224.0	0.0	27.0
3650	17:50:25	11/09/2000	1.5	110700.0	3.6	198.9	225.5	0.0	27.0
3640	17:53:53	11/09/2000	-0.6	111075.3	3.5	199.1	220.7	0.0	27.1
3630	17:57:19	11/09/2000	0.9	111450.1	3.5	198.2	221.7	0.0	27.1
3620	18:00:44	11/09/2000	4.0	111825.2	3.5	197.6	222.6	256.0	27.0
3610	18:04:10	11/09/2000	3.2	112200.1	3.5	200.4	223.3	0.0	27.0
3600	18:07:36	11/09/2000	0.4	112575.1	3.5	198.9	220.3	251.0	27.0
3600	18:09:03	11/09/2000	Log speed 4.2 knots.						
3590	18:10:59	11/09/2000	2.5	112950.1	3.5	197.0	220.6	246.0	26.9
3580	18:14:23	11/09/2000	4.8	113325.2	3.5	196.3	220.3	0.0	26.9
3570	18:17:49	11/09/2000	3.1	113699.8	3.6	198.5	225.3	237.0	27.2
3560	18:21:11	11/09/2000	3.0	114075.0	3.6	198.7	223.1	0.0	27.5
3550	18:24:34	11/09/2000	4.8	114450.2	3.5	195.6	219.6	0.0	27.2
3540	18:27:58	11/09/2000	-0.9	114825.1	3.5	196.8	220.2	223.0	27.5

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
3530	18:31:21	11/09/2000	0.7	115200.3	3.6	198.1	222.0	0.0	27.6
3520	18:34:44	11/09/2000	-8.9	115575.3	3.6	199.4	220.3	213.0	28.0
3510	18:38:02	11/09/2000	0.1	115950.1	3.7	199.0	222.5	0.0	27.8
3500	18:41:23	11/09/2000	-4.5	116325.0	3.6	199.4	222.2	0.0	28.0
3500	18:42:43	11/09/2000	Log speed 4.6 knots.						
3490	18:44:44	11/09/2000	-7.6	116700.0	3.7	199.9	222.5	198.0	28.1
3480	18:48:03	11/09/2000	-5.5	117075.1	3.6	198.2	220.4	192.0	28.0
3470	18:51:23	11/09/2000	-7.2	117450.0	3.7	203.1	222.8	188.0	28.2
3460	18:54:40	11/09/2000	-0.9	117825.0	3.7	201.0	223.9	0.0	28.2
3450	18:57:58	11/09/2000	1.0	118200.0	3.7	201.5	223.8	177.0	28.2
3440	19:01:16	11/09/2000	0.1	118575.2	3.7	200.5	222.5	0.0	28.2
3430	19:04:32	11/09/2000	5.6	118950.1	3.7	199.5	223.6	0.0	28.1
3420	19:07:50	11/09/2000	0.9	119325.0	3.6	198.9	220.6	0.0	28.0
3410	19:11:08	11/09/2000	4.5	119700.1	3.7	201.1	224.4	0.0	28.0
3400	19:14:29	11/09/2000	6.6	120074.9	3.7	200.8	224.4	0.0	27.9
3400	19:48:05	11/09/2000	Log speed 4.5 knots.						
3390	19:17:50	11/09/2000	1.1	120449.9	3.7	199.2	222.7	117.0	27.9
3380	19:21:05	11/09/2000	0.6	120825.0	3.7	197.8	221.1	0.0	27.8
3370	19:24:19	11/09/2000	7.4	121199.9	3.8	198.4	224.5	119.0	27.7
3360	19:27:34	11/09/2000	5.3	121574.9	3.7	194.0	221.0	130.0	27.4
3350	19:30:58	11/09/2000	-13.0	121950.3	3.6	205.4	222.4	0.0	27.9
3340	19:34:15	11/09/2000	-1.4	122325.1	3.7	201.0	222.9	125.0	27.6
3330	19:37:32	11/09/2000	5.0	122700.0	3.7	198.9	224.2	126.0	27.3
3320	19:40:51	11/09/2000	4.3	123075.3	3.6	197.7	221.8	0.0	27.1
3310	19:44:11	11/09/2000	-2.4	123450.2	3.6	198.7	221.0	121.0	27.1
3300	19:47:34	11/09/2000	-6.3	123825.0	3.6	199.5	221.9	122.0	27.0
3300	19:48:41	11/09/2000	Log speed 4.4 knots.						
3290	19:50:52	11/09/2000	-1.7	124200.0	3.7	199.4	223.1	0.0	26.9
3280	19:54:11	11/09/2000	-3.2	124575.1	3.7	200.5	222.9	0.0	26.8
3270	19:57:27	11/09/2000	-2.1	124950.2	3.7	201.9	222.2	112.0	26.8
3260	20:00:51	11/09/2000	6.9	125324.7	3.5	199.1	225.3	0.0	26.6
3250	20:04:30	11/09/2000	2.2	125700.1	3.3	201.3	223.0	0.0	26.7
3240	20:08:13	11/09/2000	2.6	126074.7	3.3	199.7	224.4	0.0	26.8
3230	20:11:54	11/09/2000	6.1	126449.5	3.4	199.1	226.6	0.0	26.9
3220	20:15:40	11/09/2000	-3.3	126824.8	3.4	200.4	223.0	107.0	27.2
3210	20:19:17	11/09/2000	13.7	127200.3	3.3	201.0	223.8	107.0	27.1
3200	20:23:06	11/09/2000	-0.1	127575.1	3.3	201.7	222.3	0.0	27.3
3200	20:23:55	11/09/2000	Log speed 4.5 knots.						
3190	20:26:53	11/09/2000	2.1	127950.3	3.1	202.9	221.0	0.0	27.7
3180	20:30:43	11/09/2000	9.5	128325.0	3.2	198.3	221.7	106.0	27.6
3170	20:34:38	11/09/2000	-0.2	128700.0	3.0	201.3	219.5	0.0	27.5
3160	20:38:31	11/09/2000	-6.9	129075.0	3.2	203.9	221.3	104.0	27.1
3150	20:42:26	11/09/2000	1.5	129450.6	3.0	200.7	220.5	0.0	26.8
3140	20:46:30	11/09/2000	-4.2	129825.4	2.9	202.9	219.2	0.0	26.9
3130	20:50:36	11/09/2000	-3.1	130199.9	3.0	202.0	223.2	0.0	27.1
3120	20:54:29	11/09/2000	5.9	130575.7	3.1	200.4	221.0	102.0	26.9
3110	20:58:30	11/09/2000	-3.7	130950.2	2.9	204.6	219.0	0.0	27.3
3100	21:02:39	11/09/2000	-4.1	131325.1	2.9	203.8	220.4	0.0	27.0
3100	21:03:07	11/09/2000	Log speed 4.6 knots.						

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Shotlog Information

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Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
3090	21:06:45	11/09/2000	8.4	131699.9	3.0	200.2	224.9	0.0	27.4
3080	21:10:54	11/09/2000	-15.1	132075.2	3.0	207.1	217.3	96.0	27.9
3070	21:14:55	11/09/2000	-10.1	132450.1	3.0	205.0	223.9	93.0	28.0
3060	21:18:55	11/09/2000	13.5	132824.6	3.0	196.9	223.3	94.0	27.7
3050	21:23:08	11/09/2000	-4.8	133200.1	2.8	205.6	218.7	91.0	28.2
3040	21:27:12	11/09/2000	4.9	133575.4	3.0	203.3	220.3	92.0	28.2
3030	21:31:12	11/09/2000	-4.3	133950.0	3.0	204.0	220.8	90.0	28.4
3020	21:35:11	11/09/2000	9.1	134325.2	3.0	202.7	218.8	92.0	28.2
3010	21:39:13	11/09/2000	4.6	134700.2	3.0	204.7	222.1	90.0	28.5
3000	21:43:06	11/09/2000	-7.3	135075.0	3.2	206.4	222.3	90.0	28.7
3000	21:43:46	11/09/2000	Log speed 4.6 knots.						
2990	21:47:02	11/09/2000	0.1	135450.0	3.0	204.2	218.6	91.0	28.5
2980	21:50:51	11/09/2000	-1.8	135824.7	3.4	209.8	230.3	90.0	28.7
2970	21:54:25	11/09/2000	12.7	136200.0	3.3	200.8	221.7	89.0	28.1
2960	21:58:11	11/09/2000	4.8	136575.1	3.1	200.5	219.9	91.0	28.2
2950	22:01:58	11/09/2000	-1.2	136949.8	3.3	202.3	224.8	91.0	28.3
2940	22:05:38	11/09/2000	6.7	137325.4	3.3	203.2	221.3	89.0	28.1
2930	22:09:14	11/09/2000	-2.8	137700.4	3.4	206.2	221.4	88.0	28.0
2920	22:12:50	11/09/2000	-1.8	138075.0	3.4	204.4	222.4	87.0	27.9
2910	22:16:33	11/09/2000	-1.3	138450.3	3.2	204.9	222.0	0.0	27.9
2900	22:20:19	11/09/2000	9.2	138824.8	3.2	199.0	223.9	88.0	27.7
2900	22:20:50	11/09/2000	Log speed 4.6 knots.						
2890	22:24:06	11/09/2000	3.6	139200.1	3.3	200.3	222.1	87.0	27.8
2880	22:27:54	11/09/2000	6.9	139574.4	3.1	194.4	223.9	91.0	28.0
2870	22:31:49	11/09/2000	-0.4	139950.0	3.2	201.8	226.0	86.0	28.4
2860	22:35:38	11/09/2000	4.9	140325.2	3.2	201.2	222.9	86.0	28.4
2850	22:39:27	11/09/2000	0.4	140700.4	3.1	201.7	218.7	86.0	28.6
2840	22:43:24	11/09/2000	2.8	141074.9	3.1	201.5	223.8	86.0	28.7
2830	22:47:30	11/09/2000	0.4	141450.1	2.9	201.7	220.5	85.0	28.8
2820	22:51:40	11/09/2000	-10.2	141825.1	2.9	203.5	219.1	85.0	29.1
2810	22:55:45	11/09/2000	2.8	142200.1	2.9	200.4	222.6	85.0	29.0
2800	22:59:50	11/09/2000	1.5	142575.1	2.9	199.0	221.0	85.0	29.2
2800	23:00:24	11/09/2000	Log speed 4.4 knots.						
2790	23:03:50	11/09/2000	-14.4	142950.3	3.1	208.0	221.4	84.0	29.7
2780	23:07:54	11/09/2000	1.5	143325.3	2.8	199.5	218.0	84.0	29.4
2770	23:12:08	11/09/2000	2.1	143700.2	2.9	201.9	219.3	85.0	29.6
2760	23:16:13	11/09/2000	3.1	144075.0	3.0	201.5	221.8	83.0	29.8
2750	23:20:14	11/09/2000	-1.4	144450.0	3.1	201.8	222.4	84.0	30.0
2740	23:24:09	11/09/2000	0.8	144825.1	3.1	201.6	221.5	83.0	30.1
2730	23:28:04	11/09/2000	0.1	145199.7	3.1	203.9	222.9	85.0	30.4
2720	23:31:59	11/09/2000	-1.8	145574.5	3.2	202.3	224.6	84.0	30.6
2710	23:35:51	11/09/2000	-0.4	145950.0	3.2	202.2	223.8	81.0	30.9
2700	23:39:35	11/09/2000	-1.1	146325.2	3.5	206.3	225.1	81.0	31.1
2700	23:43:57	11/09/2000	Log speed 4.5 knots.						
2690	23:43:11	11/09/2000	9.9	146699.9	3.5	202.1	226.2	83.0	31.1
2680	23:46:50	11/09/2000	5.1	147074.9	3.3	201.3	222.6	84.0	31.1
2670	23:50:28	11/09/2000	-0.5	147449.9	3.2	202.4	221.0	82.0	31.2
2660	23:54:09	11/09/2000	6.8	147825.1	3.3	201.0	220.7	82.0	31.0
2650	23:57:53	11/09/2000	0.9	148200.0	3.2	200.9	221.5	82.0	31.0

Spectra Report

Shotlog Information

12/09/00 03:32:09

Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
2645	23:59:48	11/09/2000	1.1	148387.3	3.2	201.1	223.7	81.0	31.0
2645	00:06:40	12/09/2000	UTC 23:59:48 MSP Log speed 4.2 knots.						
2644	00:00:10	12/09/2000	0.8	148425.2	3.3	202.8	222.7	81.0	31.0
2634	00:03:56	12/09/2000	-3.2	148800.1	3.2	202.6	220.9	82.0	30.9
2630	00:05:28	12/09/2000	-1.8	148950.0	3.2	203.2	223.1	80.0	30.9
2620	00:09:18	12/09/2000	-0.3	149325.1	3.1	202.3	222.3	80.0	30.8
2610	00:13:13	12/09/2000	2.1	149699.9	3.1	202.0	223.2	79.0	30.9
2600	00:17:07	12/09/2000	2.4	150074.9	3.1	202.2	223.3	78.0	31.1
2600	00:17:48	12/09/2000	Log speed 4.3 knots.						
2590	00:21:03	12/09/2000	-2.9	150450.0	3.0	202.6	220.8	77.0	31.2
2580	00:24:56	12/09/2000	-1.1	150825.2	3.1	201.6	221.1	76.0	31.1
2570	00:28:45	12/09/2000	0.3	151199.9	3.2	203.9	222.8	74.0	31.2
2560	00:32:37	12/09/2000	1.6	151575.0	3.2	202.6	222.7	74.0	31.2
2550	00:36:24	12/09/2000	-3.3	151950.1	3.2	204.9	222.9	76.0	31.1
2540	00:40:06	12/09/2000	-4.2	152324.8	3.3	203.6	221.2	75.0	31.0
2530	00:43:48	12/09/2000	2.8	152700.1	3.3	202.3	223.0	73.0	30.8
2520	00:47:23	12/09/2000	-3.1	153075.1	3.3	204.5	221.7	72.0	30.6
2510	00:50:58	12/09/2000	6.1	153449.9	3.5	201.3	224.4	75.0	30.2
2500	00:54:29	12/09/2000	-2.6	153825.0	3.4	202.9	222.2	73.0	30.0
2500	00:56:31	12/09/2000	Log speed 4.5 knots.						
2490	00:58:05	12/09/2000	4.6	154200.1	3.3	200.9	221.6	74.0	29.7
2480	01:01:42	12/09/2000	-3.5	154574.9	3.3	198.5	218.3	75.0	29.4
2470	01:05:16	12/09/2000	-3.2	154949.8	3.4	203.5	224.5	77.0	29.3
2460	01:08:46	12/09/2000	3.2	155325.0	3.4	198.4	221.2	77.0	28.7
2450	01:12:19	12/09/2000	-0.4	155700.0	3.4	201.2	222.5	77.0	28.5
2440	01:15:49	12/09/2000	6.1	156074.9	3.5	198.0	222.5	77.0	28.0
2430	01:19:16	12/09/2000	-0.3	156449.8	3.5	199.9	221.4	77.0	27.9
2420	01:22:46	12/09/2000	-0.9	156825.0	3.5	199.8	222.3	76.0	27.8
2410	01:26:13	12/09/2000	3.1	157200.0	3.6	199.9	224.0	76.0	27.9
2400	01:29:36	12/09/2000	1.1	157575.1	3.6	199.0	220.7	77.0	28.0
2400	01:30:22	12/09/2000	Log speed 4.6 knots.						
2390	01:33:01	12/09/2000	1.8	157950.0	3.5	198.9	221.5	78.0	28.1
2380	01:36:25	12/09/2000	3.3	158325.1	3.6	198.2	221.5	78.0	28.2
2370	01:39:54	12/09/2000	-4.8	158700.4	3.4	203.9	221.1	75.0	28.6
2360	01:43:31	12/09/2000	4.7	159074.5	3.3	196.6	224.8	76.0	28.7
2350	01:47:15	12/09/2000	-3.8	159450.2	3.3	201.1	221.4	76.0	29.0
2340	01:50:55	12/09/2000	-2.4	159825.2	3.1	199.7	219.4	78.0	29.1
2330	01:54:36	12/09/2000	5.3	160199.7	3.4	198.3	226.1	77.0	29.3
2320	01:58:17	12/09/2000	-2.3	160575.0	3.3	200.6	222.5	79.0	29.5
2310	02:01:57	12/09/2000	-8.4	160950.2	3.3	201.0	218.4	79.0	29.6
2300	02:05:31	12/09/2000	2.5	161324.7	3.4	202.0	225.7	78.0	29.7
2300	02:06:00	12/09/2000	Log speed 4.4 knots.						
2290	02:09:07	12/09/2000	-0.5	161700.1	3.4	200.7	221.6	80.0	29.6
2280	02:12:46	12/09/2000	-5.9	162075.1	3.4	201.2	222.2	78.0	29.6
2270	02:16:17	12/09/2000	4.8	162450.3	3.4	199.3	220.4	78.0	29.5
2260	02:19:47	12/09/2000	0.7	162824.9	3.5	201.3	224.0	80.0	29.7
2250	02:23:10	12/09/2000	-1.3	163199.9	3.7	201.9	224.4	0.0	29.9
2240	02:26:31	12/09/2000	0.4	163575.0	3.6	201.2	222.1	78.0	30.0
2230	02:29:49	12/09/2000	2.4	163950.0	3.7	203.2	223.8	78.0	30.1

Shot	Time	Date	DC	DA	BSP	HDG	CMG	DPT	FTH
2220	02:33:07	12/09/2000	-0.2	164324.9	3.7	202.4	222.5	81.0	30.1
2210	02:36:22	12/09/2000	11.7	164699.9	3.7	198.3	224.9	80.0	29.9
2200	02:39:57	12/09/2000	-0.9	165074.9	3.4	199.0	222.7	80.0	30.2
2200	02:40:22	12/09/2000	Log speed 4.5 knots.						
2190	02:43:18	12/09/2000	1.4	165449.9	3.6	199.7	223.3	0.0	30.4
2180	02:46:44	12/09/2000	-2.6	165825.0	3.5	198.6	219.5	81.0	30.6
2176	02:48:09	12/09/2000	-10.0	165975.0	3.5	204.6	221.0	80.0	31.0
2175	02:48:29	12/09/2000	-8.7	166012.4	3.5	204.2	222.7	79.0	31.1
2175	02:54:20	12/09/2000	UTC 02:48 Last Preplot SP Log speed 4.8 knots.						
2174	02:48:49	12/09/2000	-7.0	166049.9	3.6	203.9	223.8	81.0	31.1
2174	02:56:00	12/09/2000	UTC 02:48 Start of Run Out Log speed 4.8 knots.						
2170	02:50:07	12/09/2000	-2.1	166200.1	3.8	203.3	224.3	80.0	31.1
2166	02:51:23	12/09/2000	5.2	166350.0	3.8	203.4	225.2	80.0	31.1
2160	02:53:24	12/09/2000	5.9	166575.4	3.6	201.8	220.5	80.0	31.1
2150	02:56:43	12/09/2000	6.0	166949.4	3.6	196.0	223.1	81.0	31.2
2140	03:00:06	12/09/2000	2.5	167324.9	3.6	198.5	222.5	80.0	31.4
2130	03:03:27	12/09/2000	-0.7	167699.9	3.7	198.0	222.1	82.0	31.7
2120	03:06:46	12/09/2000	-9.5	168074.9	3.8	204.1	223.6	80.0	32.2
2110	03:09:56	12/09/2000	3.2	168450.1	3.8	198.3	222.6	81.0	31.9
2100	03:13:11	12/09/2000	-3.2	168825.1	3.8	200.3	222.2	80.0	31.9
2100	03:13:25	12/09/2000	Log speed 4.6 knots.						
2090	03:16:22	12/09/2000	-0.6	169200.0	3.8	199.5	221.0	79.0	31.8
2080	03:19:35	12/09/2000	-0.8	169575.1	3.8	200.0	223.4	81.0	31.6
2079	03:19:53	12/09/2000	0.2	169612.5	3.8	200.3	223.7	79.0	31.6
2078	03:20:12	12/09/2000	1.2	169650.1	3.8	201.1	223.9	80.0	31.6
2077	03:20:31	12/09/2000	2.1	169687.5	3.8	200.6	223.7	79.0	31.6
2076	03:20:50	12/09/2000	3.3	169725.0	3.9	199.7	223.9	78.0	31.5
2075	03:21:09	12/09/2000	4.9	169762.5	3.9	200.1	224.4	79.0	31.5
2074	03:21:28	12/09/2000	5.3	169799.9	3.8	199.2	223.5	81.0	31.4
2074	03:25:36	12/09/2000	UTC 03:21 LSP, LGSP. Log speed 4.7 knots.						