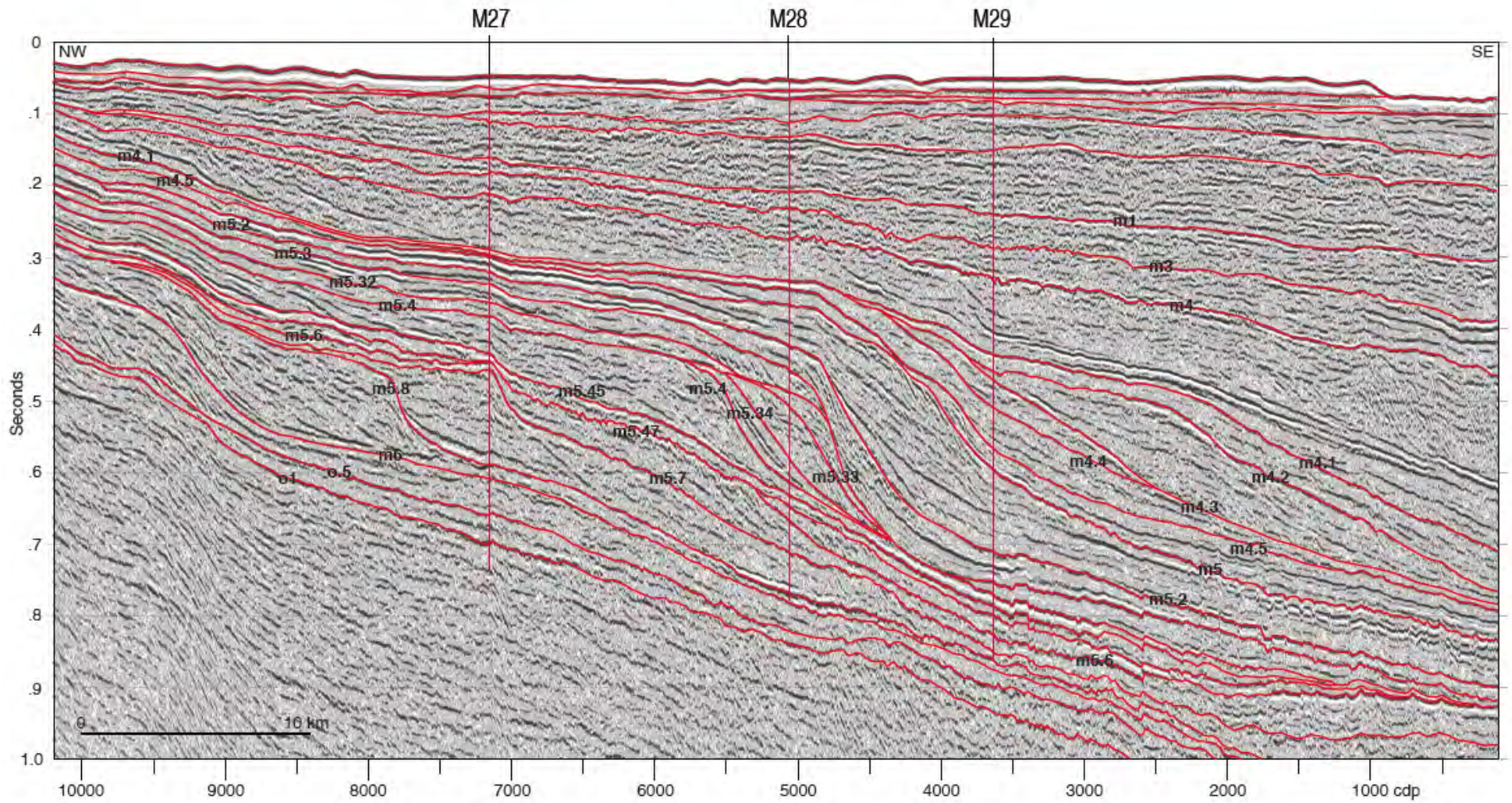
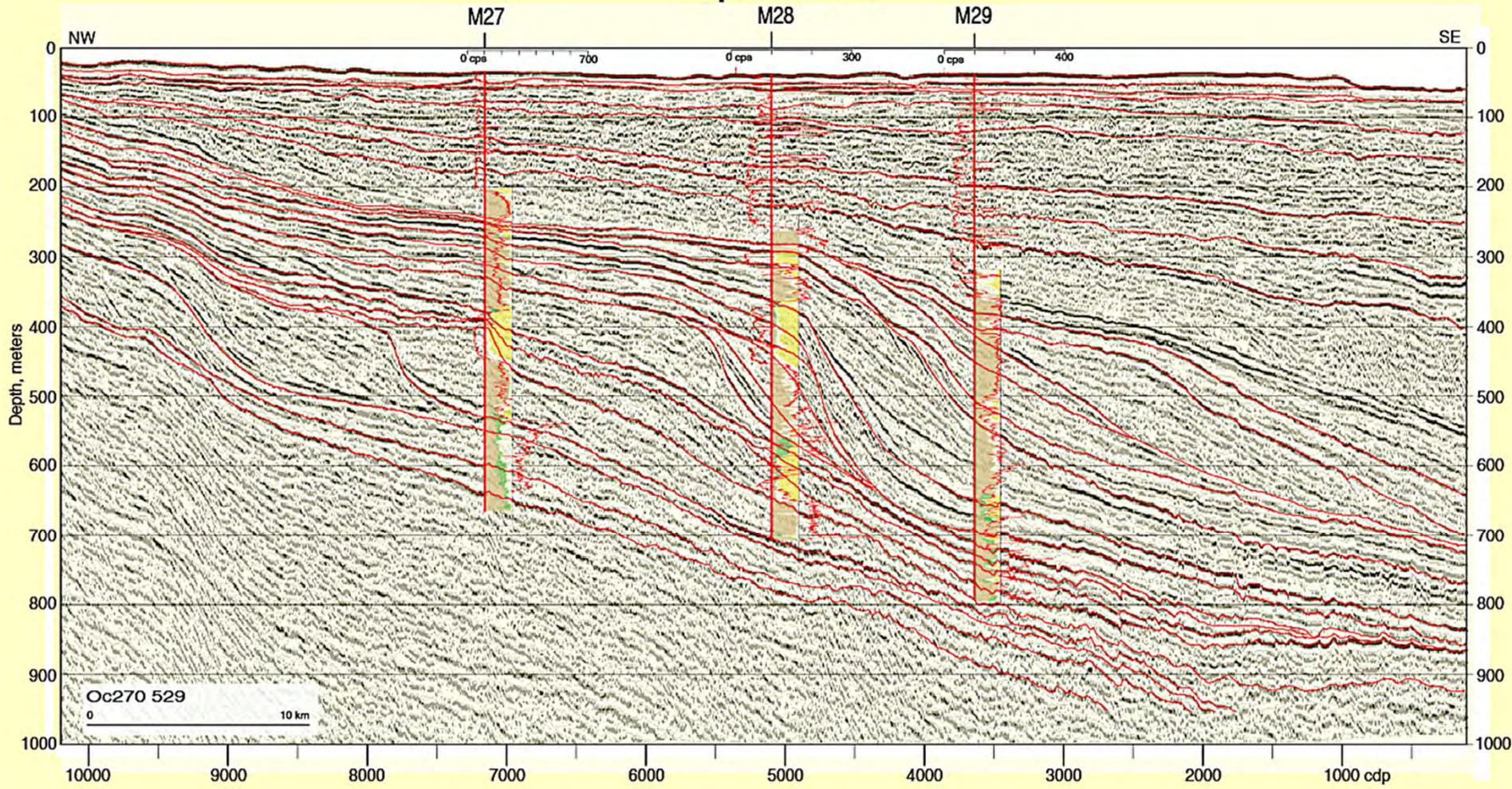


Expedition 313



Expedition 313



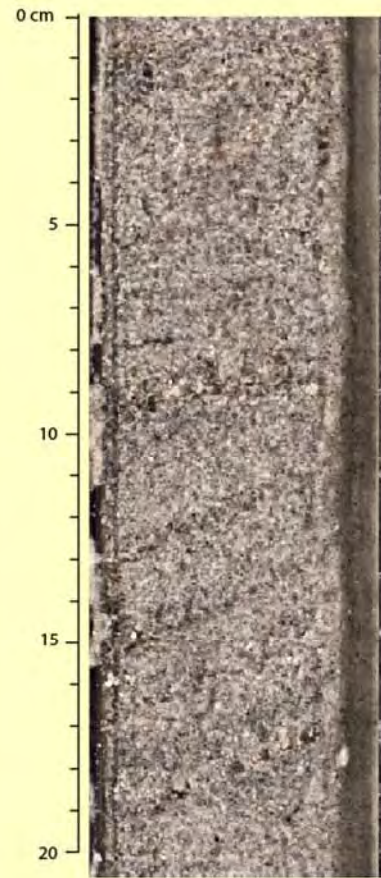
Depositional Environments in Exp 313 Drillcores



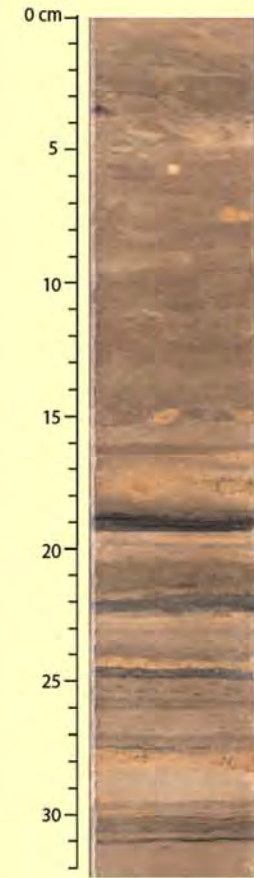
Paleosol



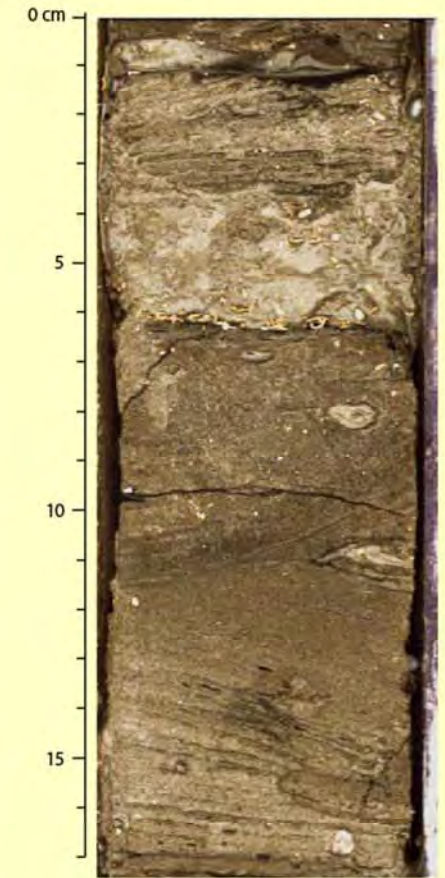
Estuary/
Barrier Island
Washover



Shoreface

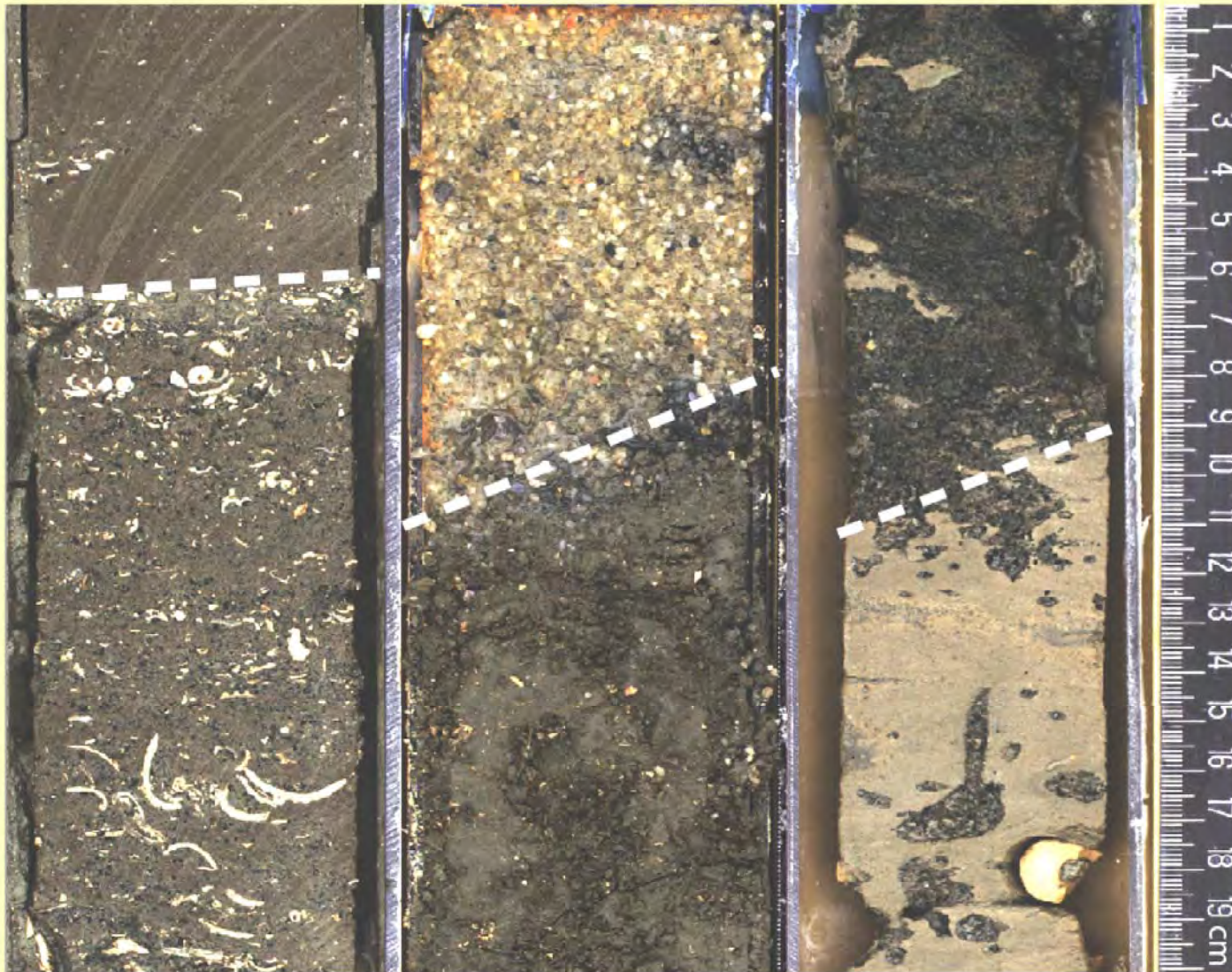


Prodelta



Open Marine
Storm Deposits

Stratigraphic Surfaces in Exp313 Drillcores

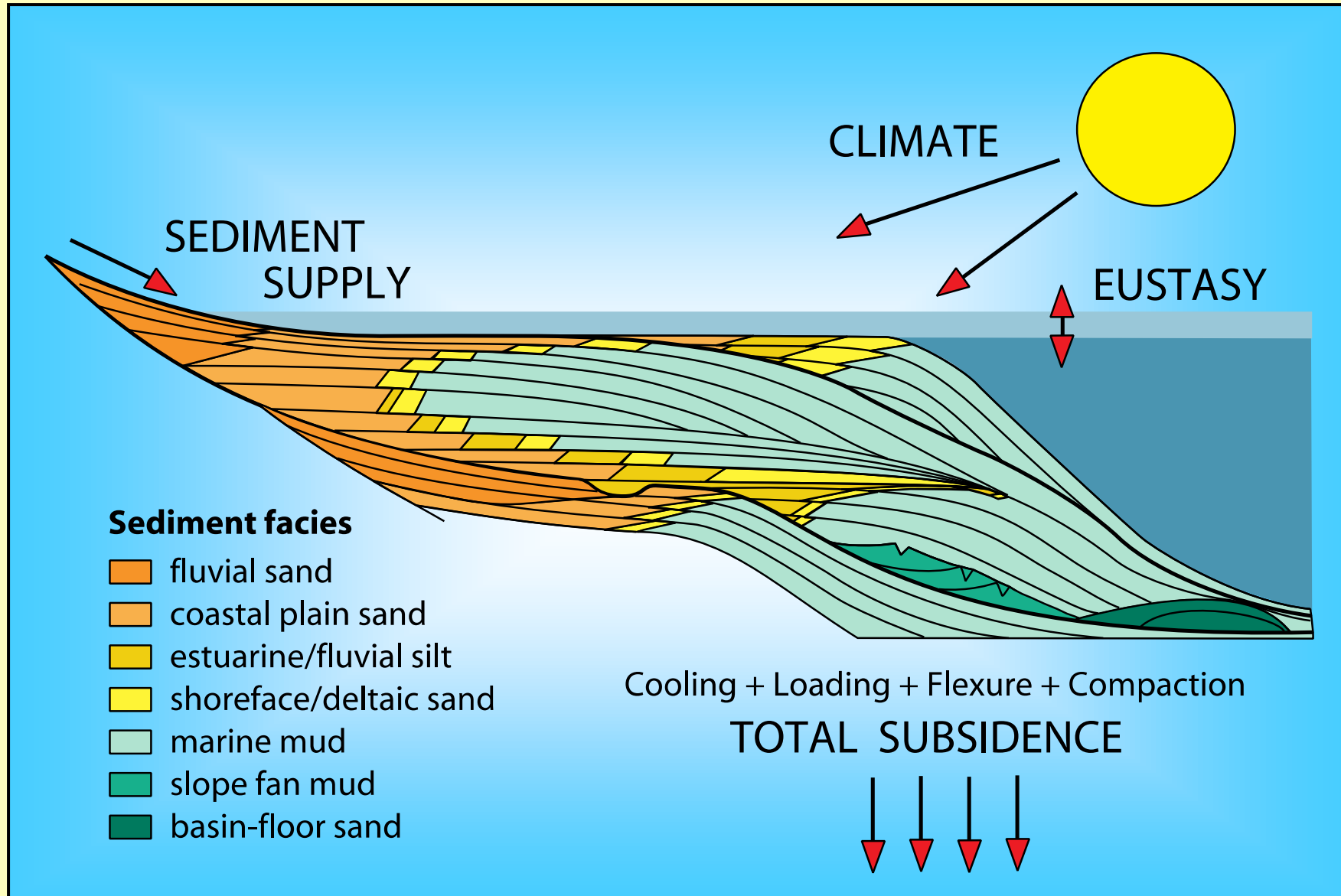


Flooding Surface

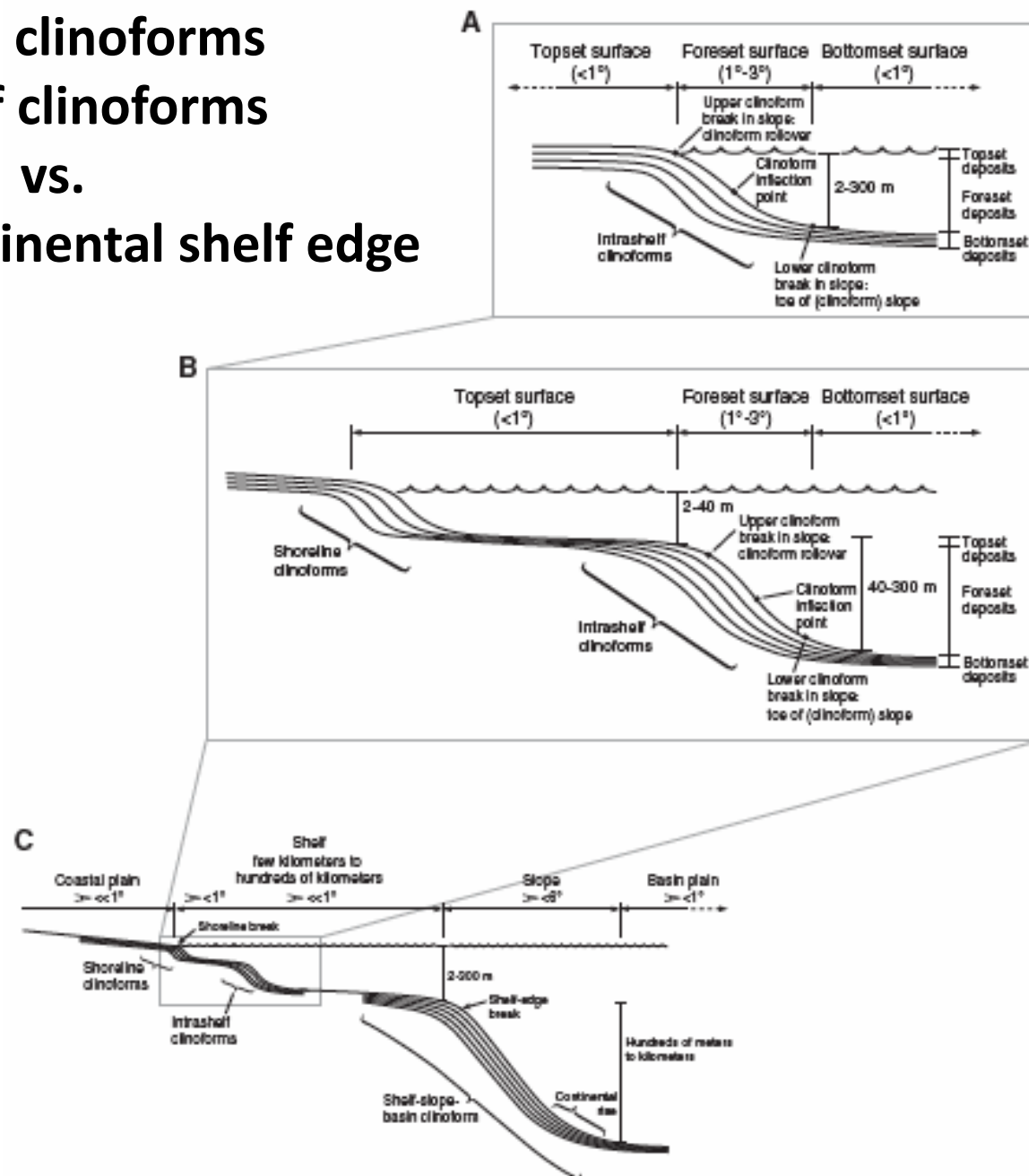
Sequence Boundary
shoreface
inner shelf

Sequence Boundary
inner shelf
outer shelf

The Shallow-Water Geologic Record



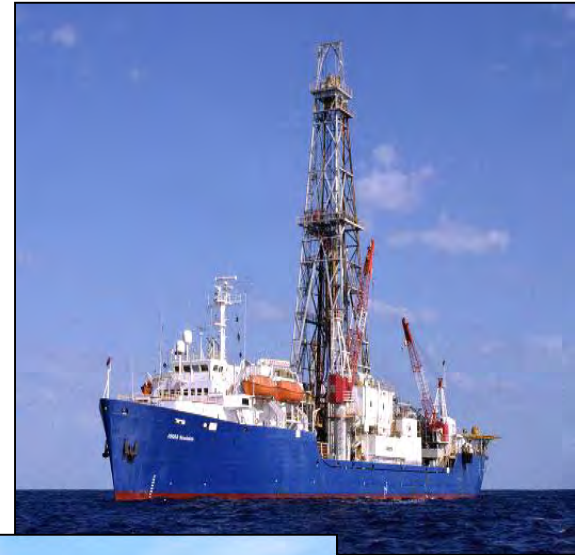
Shoreline clinofolds Intrashelf clinofolds vs. True continental shelf edge





Integrated Ocean Drilling Program

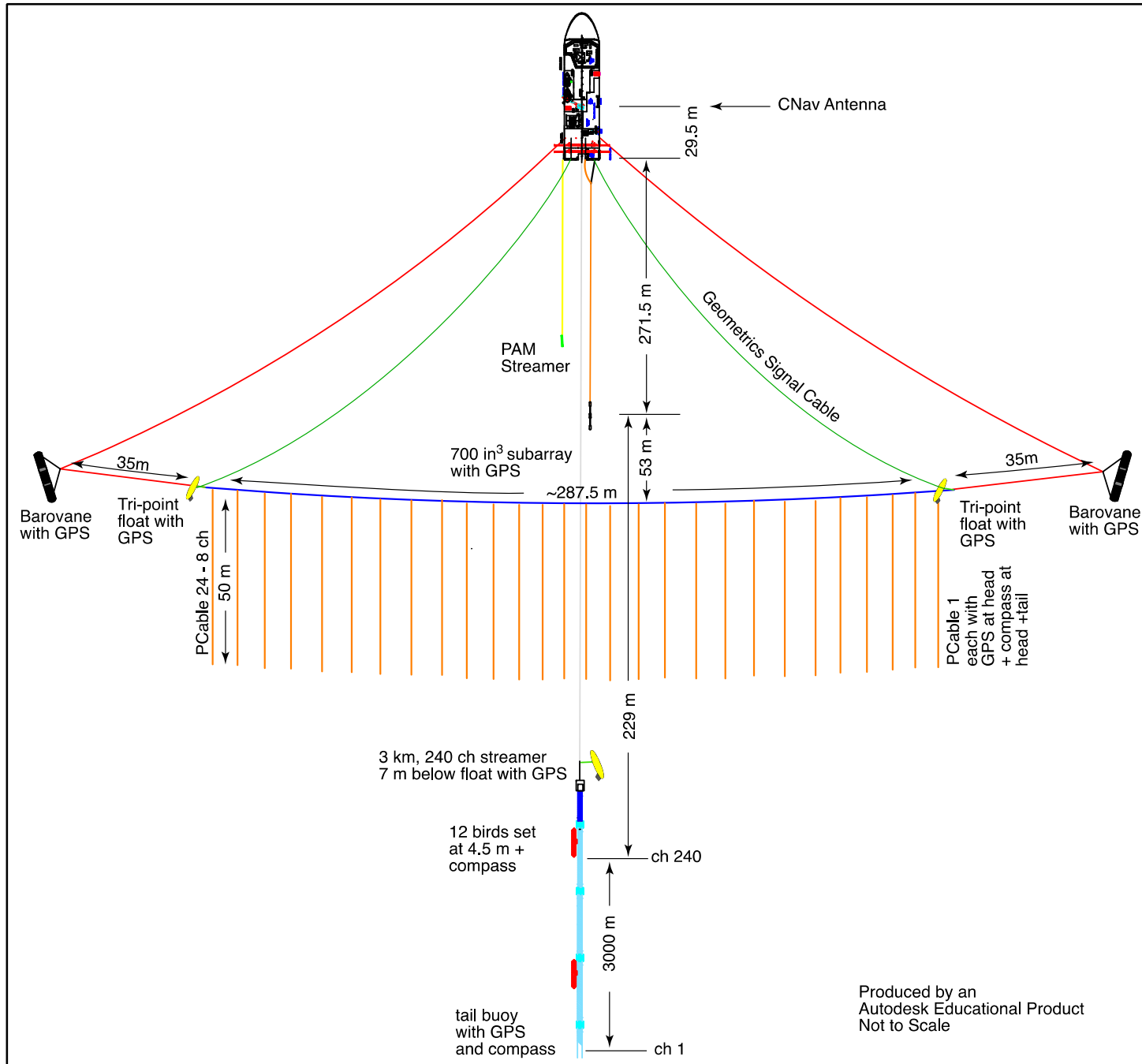
*Use the right survey ship
for the research*





MARCUS G. LANGSETH

IMO 9010137



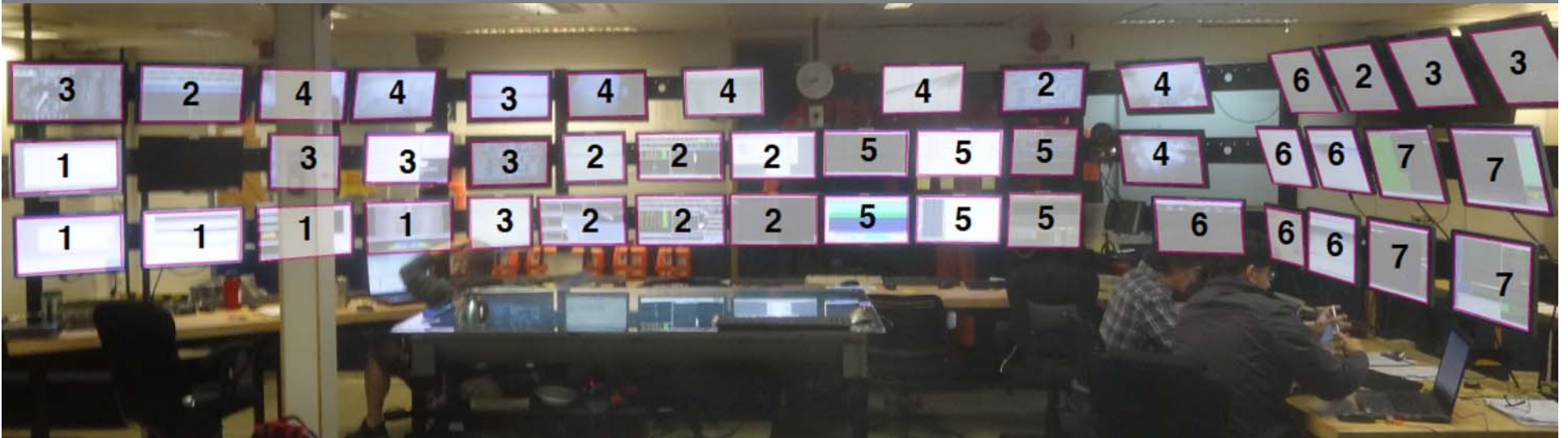




MGL1510 – 2 CoChiefs + 7 Early Career Scientists



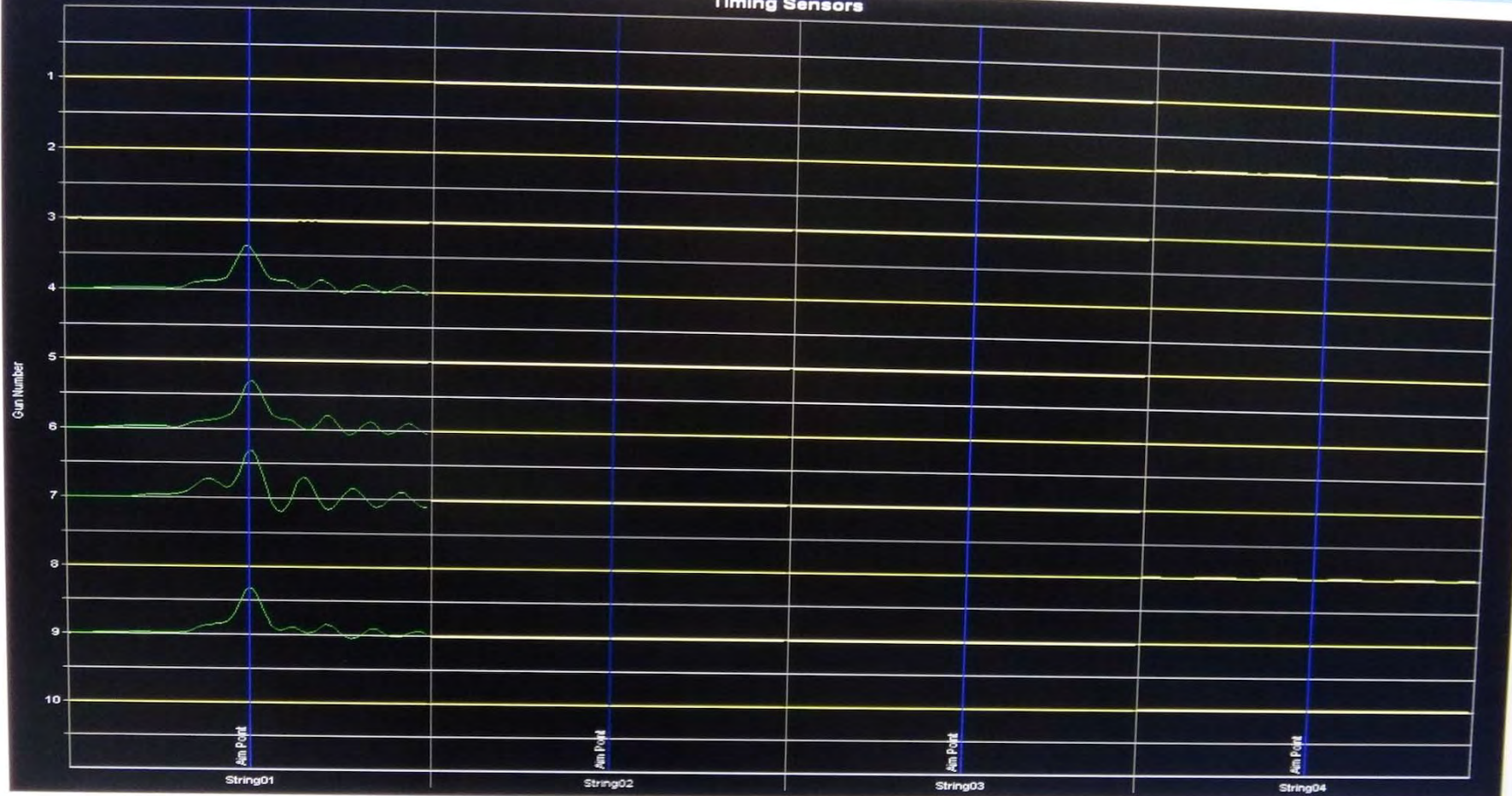




DIGISHOT RACK 6

Gun Signature

Timing Sensors



start

DataServer

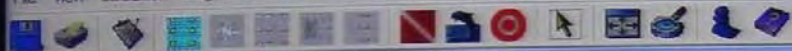
DigSHOT Master Cle...

12:25

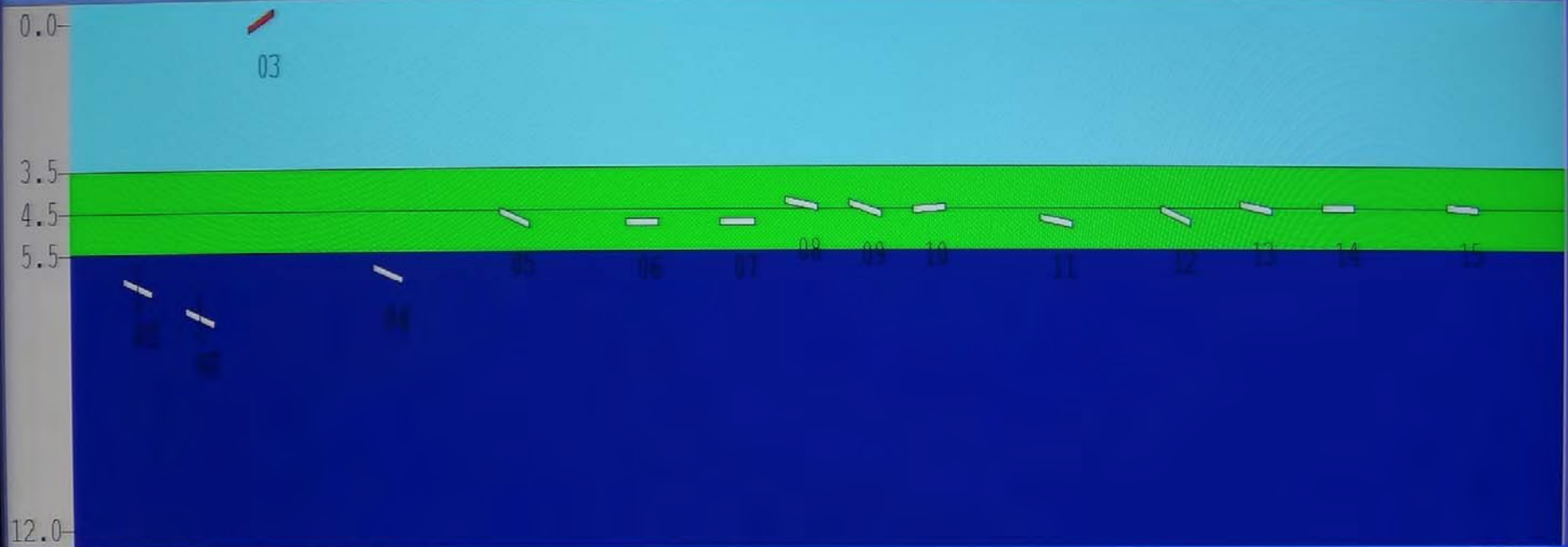
DELL

Sys3w01 - MGL1510_2.cfg

File View Streamer Diagnostic Performance Sensor DMU Window Help



S1: MGL1510_2.cfg



Range Data View: MGL1510_2.cfg

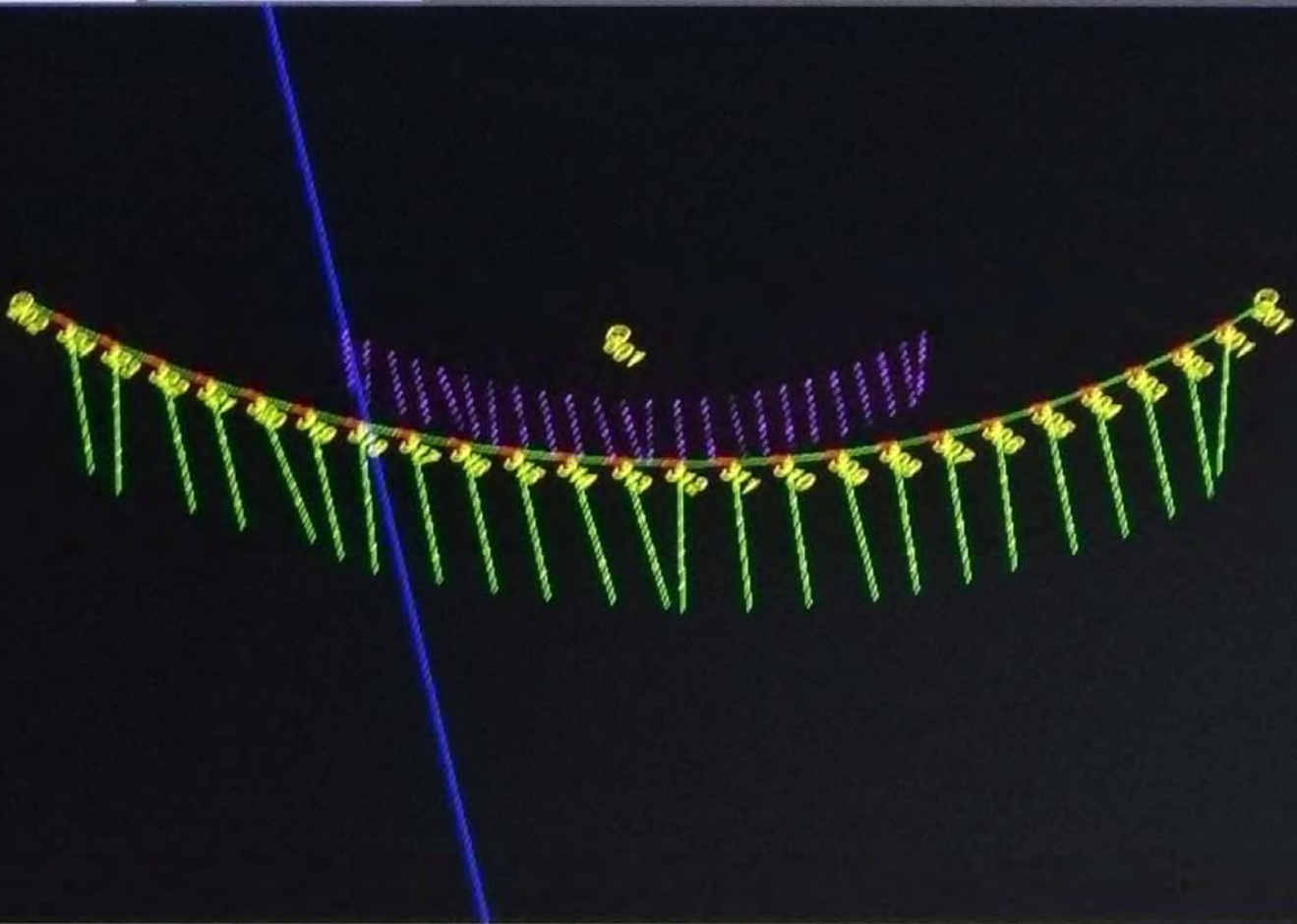
Range Name	Nominal	Range	Rate	CMX 1	CMX 2	P1 (ms)	P2 (ms)	S1 (ms)	S2 (ms)	P1 (dB)	P2 (dB)	S1 (dB)	S2 (dB)
S1T1 - S1T2	149	149.2	104%	S1T1	S1T2	98.7	98.4	0.0	0.0	-58	-43		
S1T1 - G1T1	293	266.8	122%	S1T1	G1T1	176.6	175.9	0.0	0.0		-54		
S1T2 - G1T1	442	442.0	100%	S1T2	G1T1	317.4	317.5	0.0	0.0	-61	-52	-61	
S1T3 - S1T4	159	148.8	104%	S1T3	S1T4	98.4	98.2	0.0	0.0	-45	-39		
S1T3 - S1T5	408	408.0	100%	S1T3	S1T5	272.2	272.0	0.0	0.0	-45	-39		
S1T4 - S1T5	258	257.0	61%	S1T4	S1T5	169.3	170.2	0.0	0.0	-62			

Graphs...

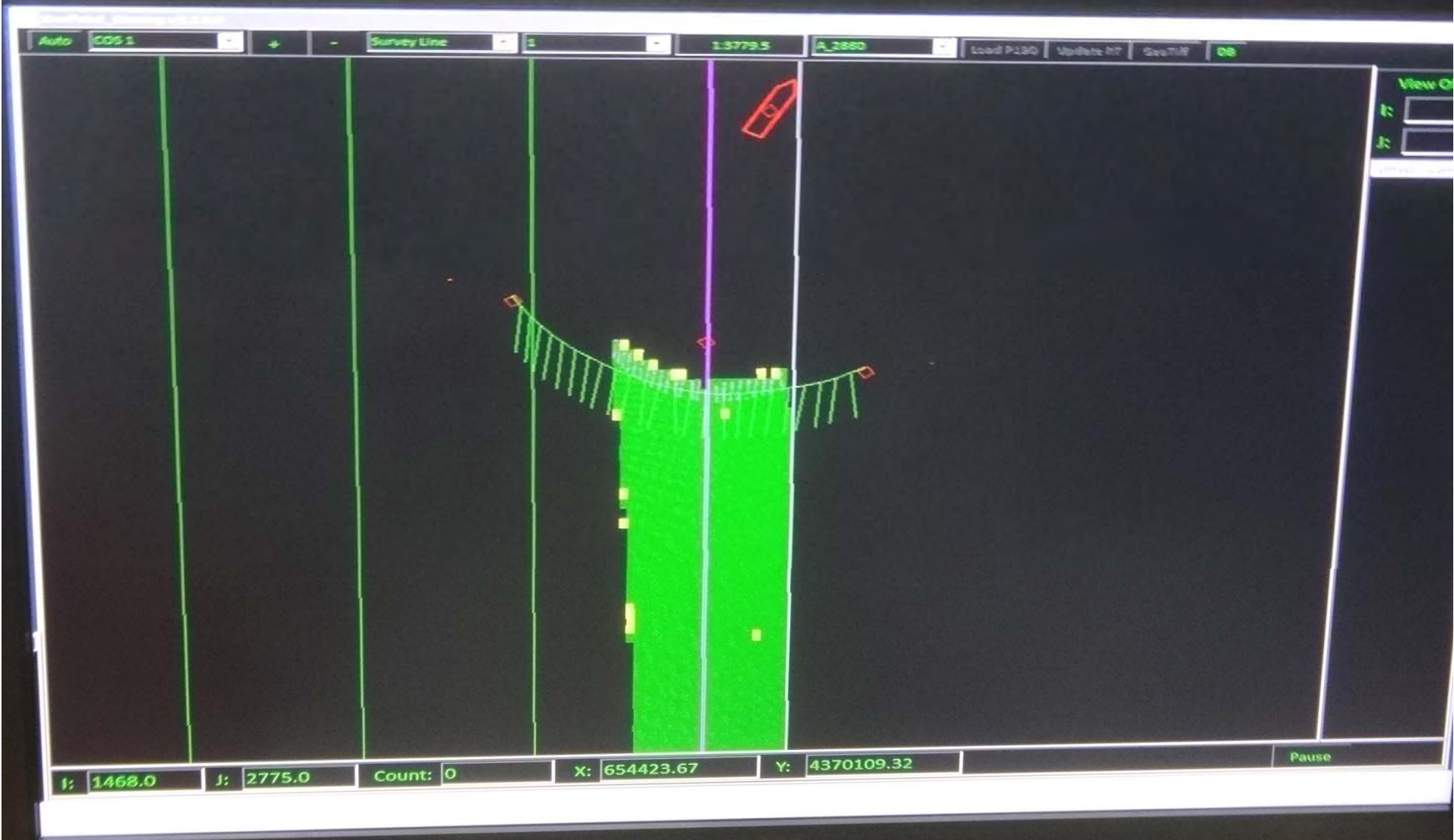
For Help, press F1.

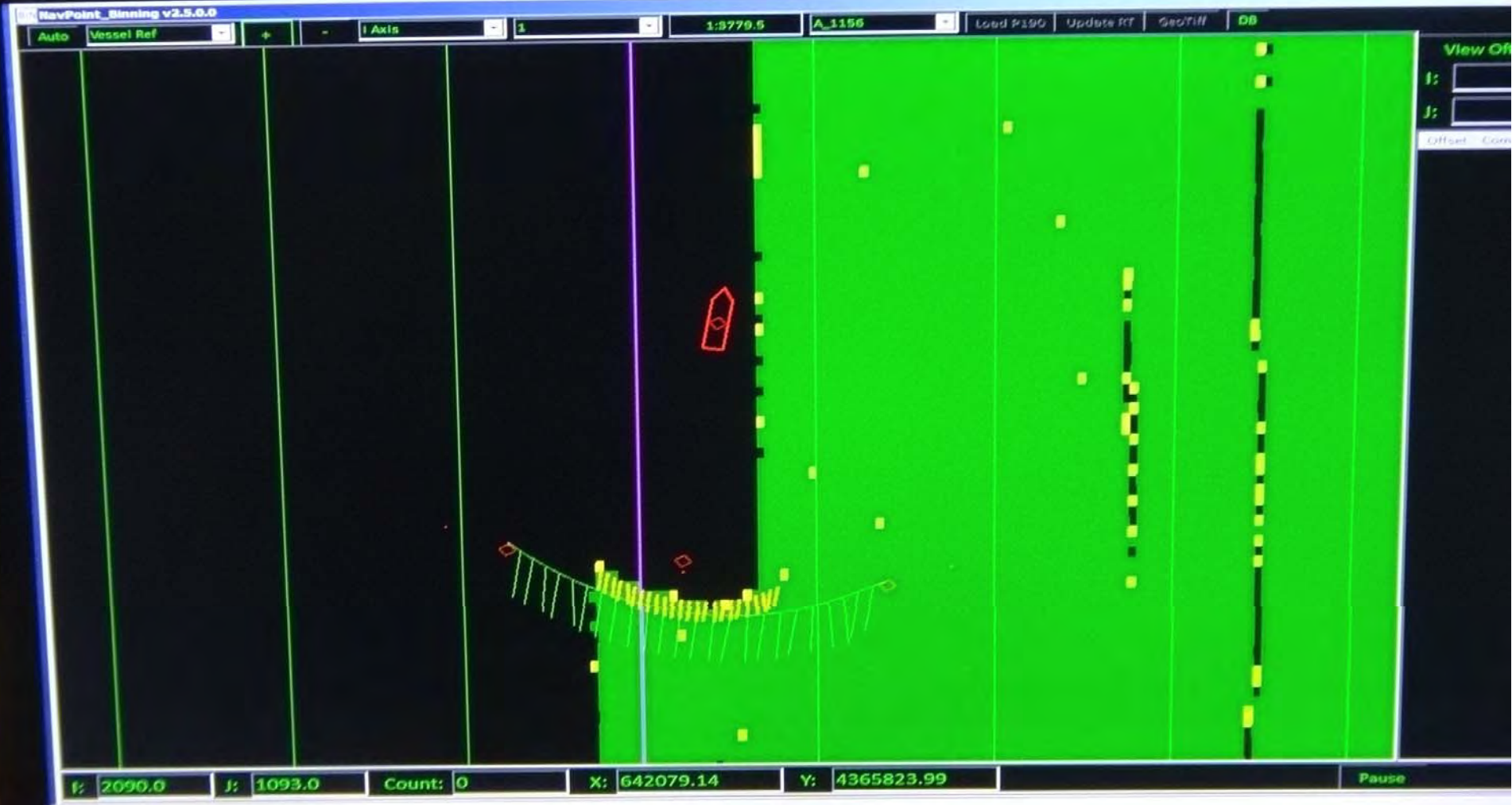
* 215 - 18:42:44 00:07 RPQA ALog: None BLog: None Ext.

AutoCenter 0.5 Spread

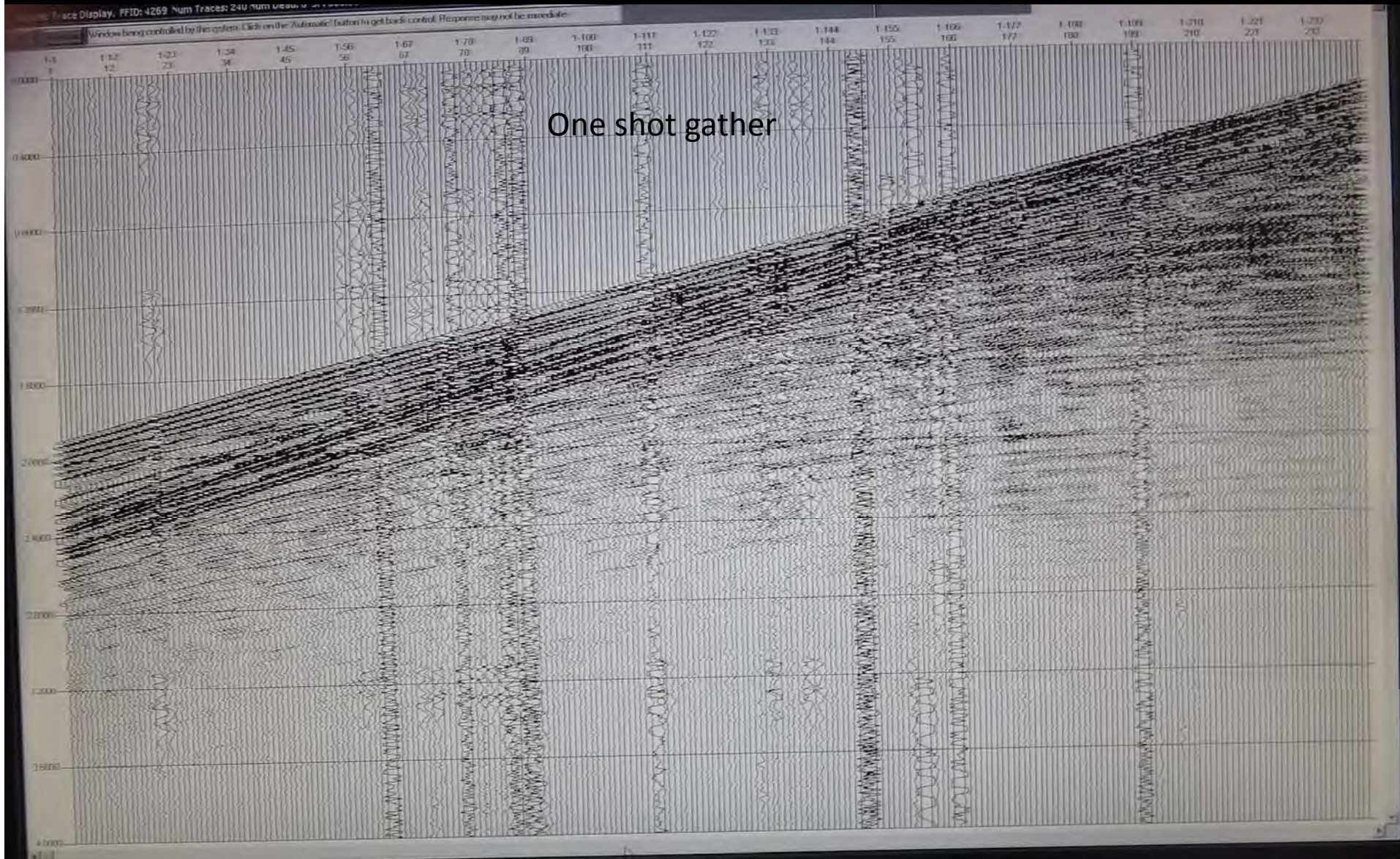


SL Active: SL Active Event: 1888 00:55:02.050 Valid: YES S: 0.02





Sercel 3 km streamer











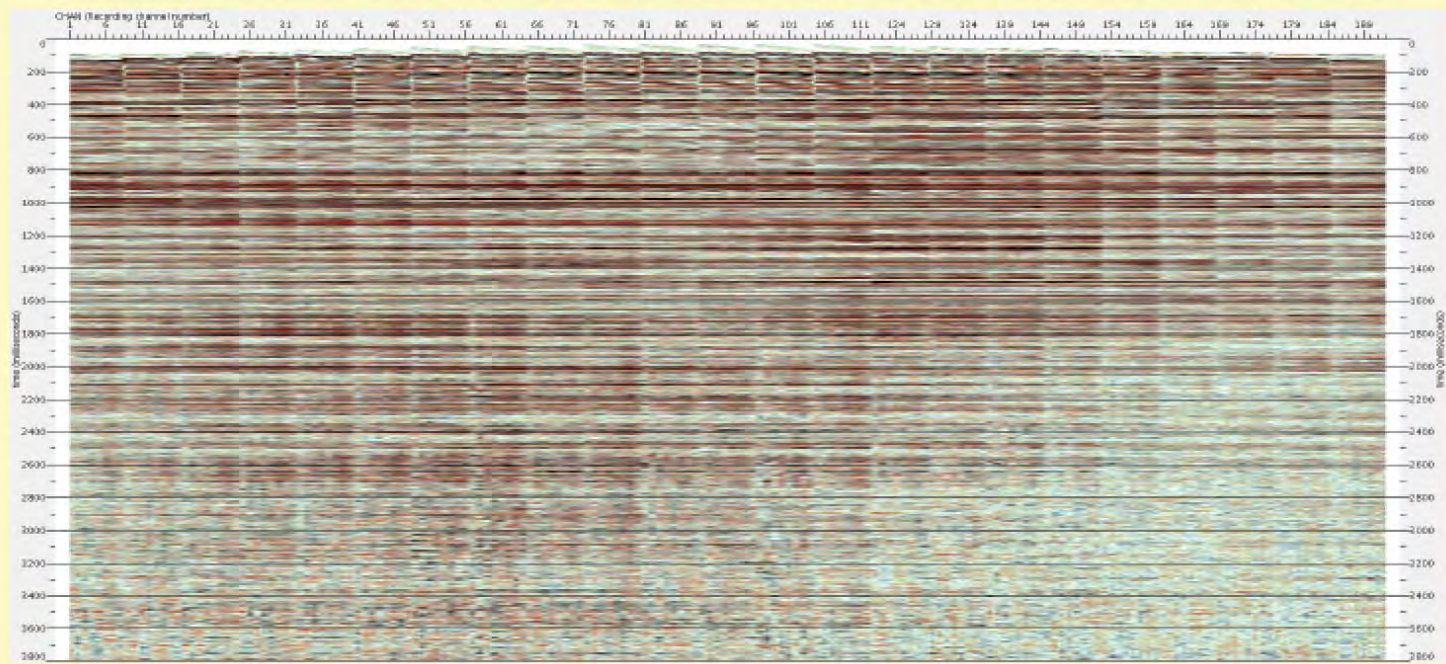
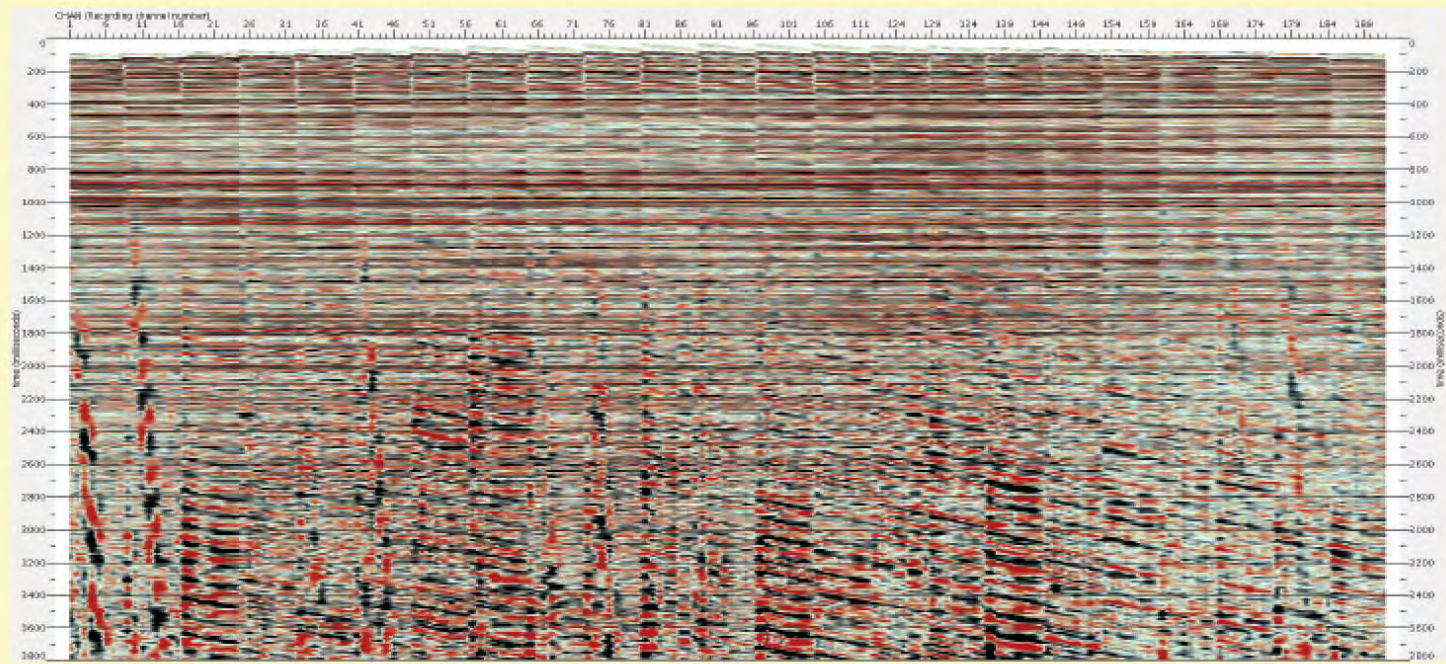


Figure 5. A single P-cable shot gather on Sequence 20, Station 1000, before (top) and after (bottom) noise attenuation. Input data (top) are after debias.

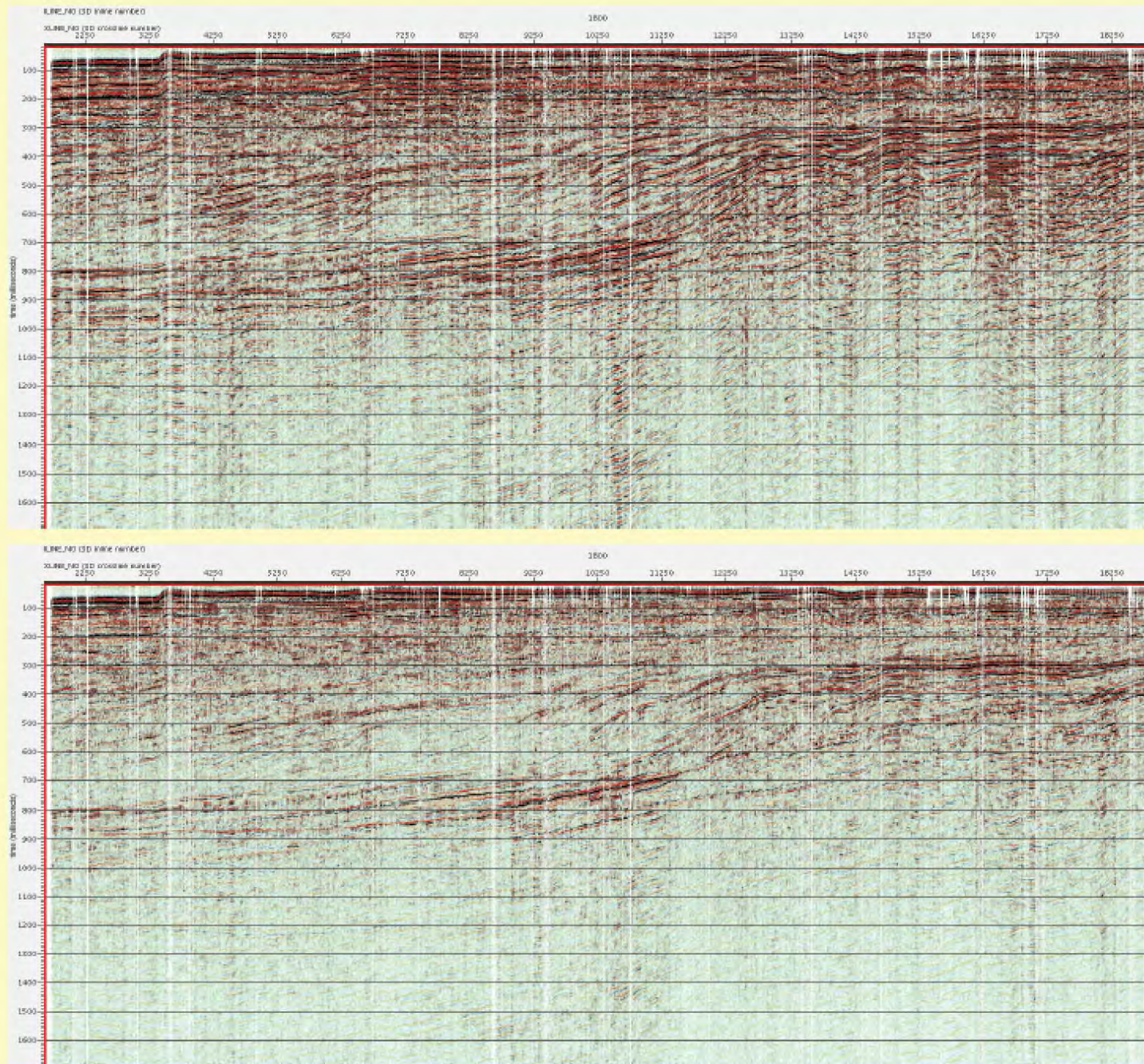


Figure 6. Inline 1800 before (top) and after (bottom) zero phase, demultiple and adaptive subtraction. Note the significant reduction in the number of events after demultiple.

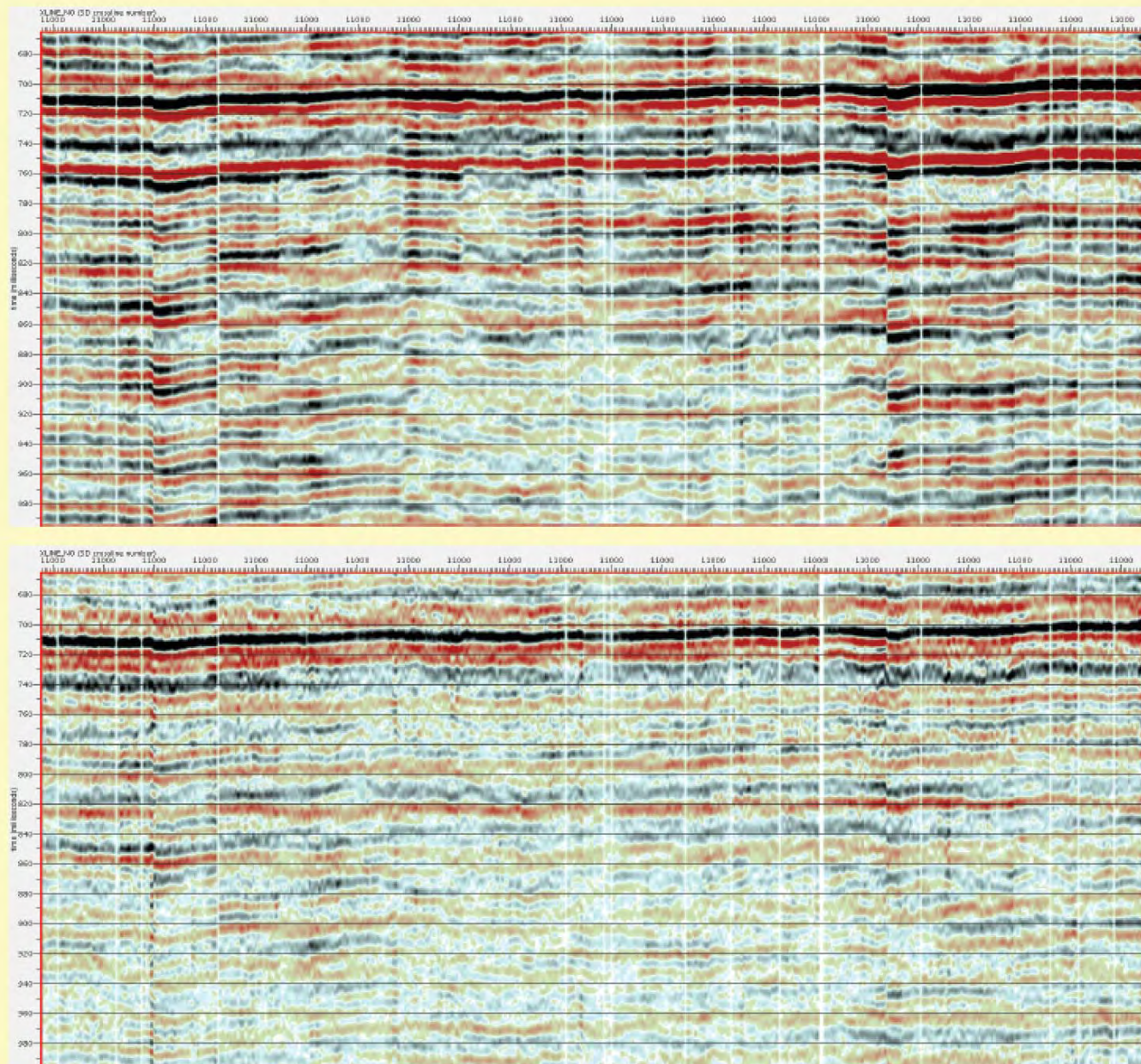
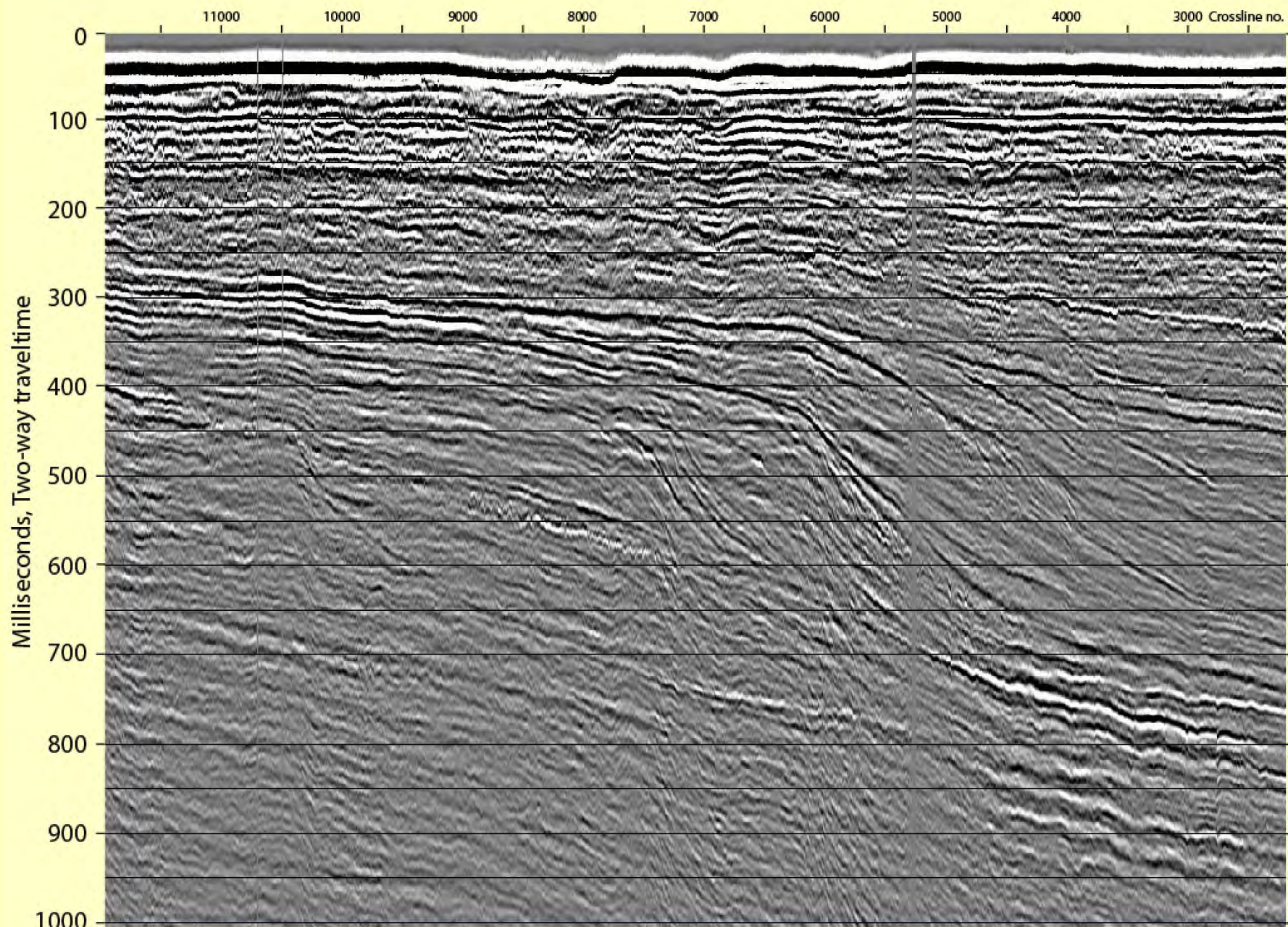


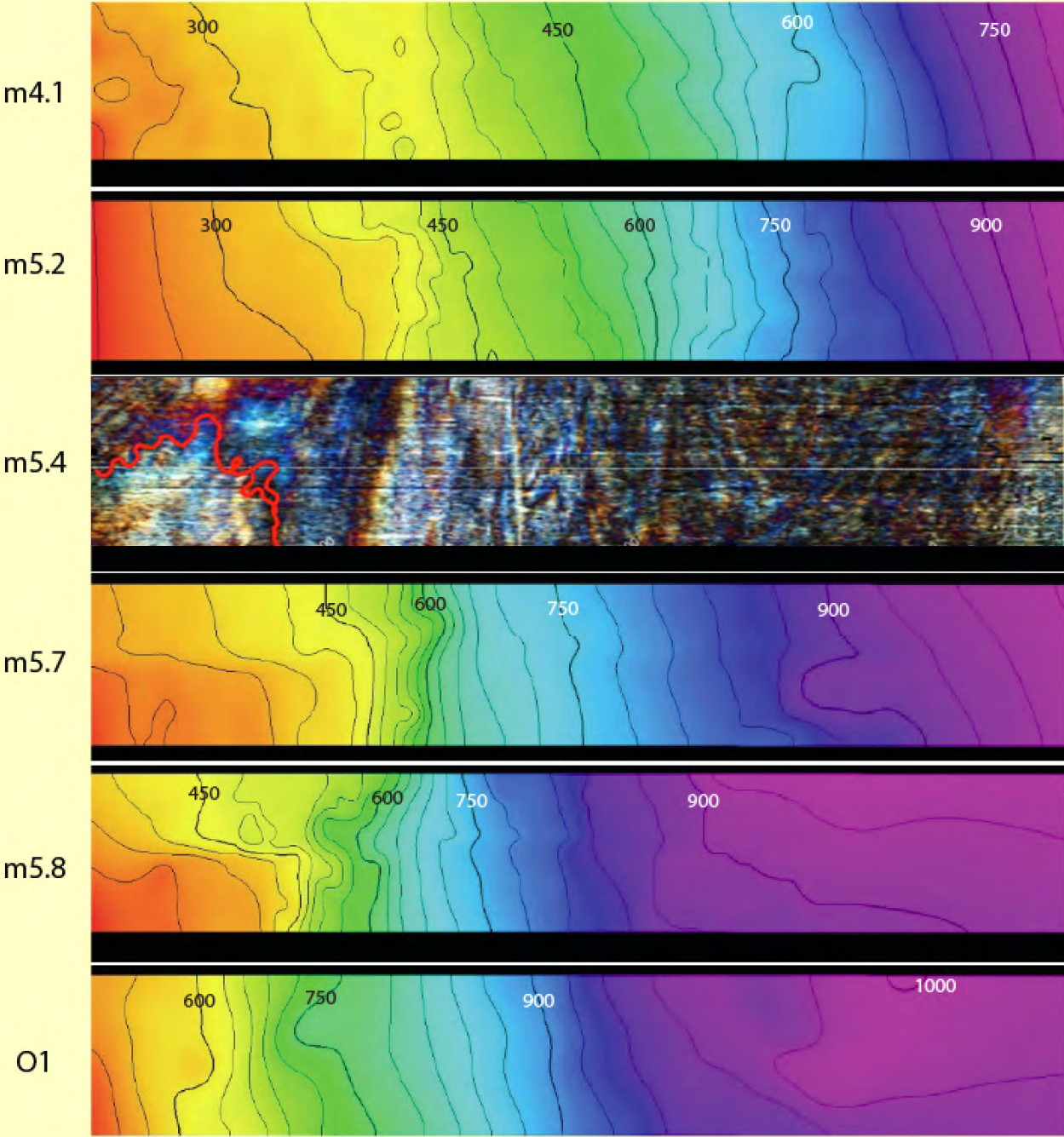
Figure 8. Crossline 11000 after dephasing to zero phase and adaptive subtraction to correct for the misfiring gun (top), followed by demultiple

MGL1510 3D - first look

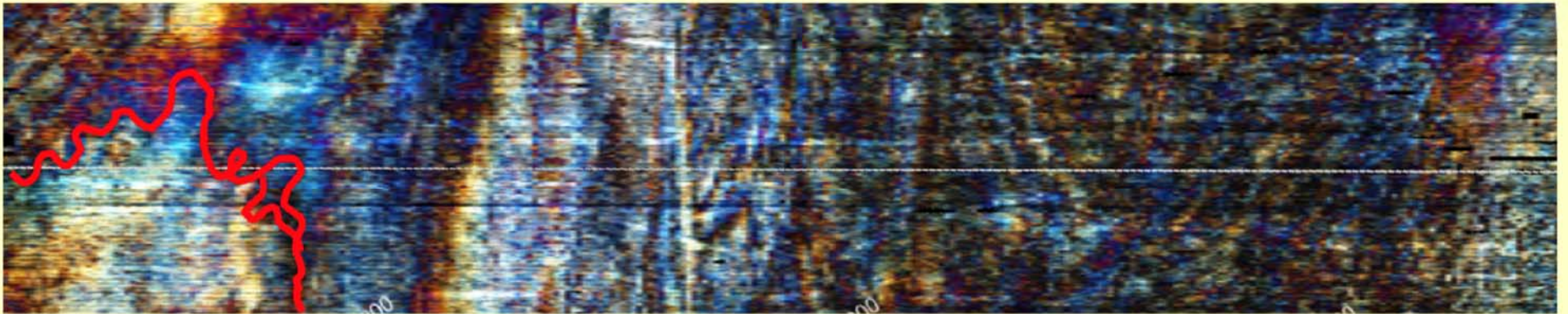


MGL1510 3D Inline 1200

Sequence Boundaries in MGL1510 3D Grid



Spectral Decomposition of Surface m5.4



Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	%Percent
DownTime	158.717	16.533
Cetacean	8.883	0.925
Nav Systems In-Sea	12.817	1.335
Nav Systems Onboard	0.217	0.023
Operator Error	0.033	0.003
Prime Extended L/C	1.700	0.177
Recording	12.167	1.267
Source	14.167	1.476
Streamers	108.483	11.300
Vessel	0.250	0.026
Demobilisation	41.900	4.365
Demob Ashore	25.433	2.649
Recovery	5.033	0.524
Transit From Prospect	11.433	1.191
Acquisition	643.533	67.035
Infill Line Change	16.683	1.738
Prime Extended L/C	4.233	0.441
Prime Line Change	79.517	8.283
Production Infill	31.800	3.312
Production Prime	511.300	53.260
Mobilisation	115.850	12.068
Mbb Ashore	84.833	8.837
Reconfiguration	13.300	1.385
Testing	6.983	0.727
Transit to Prospect	10.733	1.118
Total	960.000	

PSO Report – MGL1510

“There were no highly distinct behavioral reactions observed in relation to the vessel or acoustic source during the seismic survey.

Protected species detections resulted in the implementation of 53 mitigation actions throughout the survey. This included

- 48 power-downs,
- 4 shut-downs and
- 1 delayed ramp-up.

Overall, there was 8 hours 33 minutes of downtime attributed to protected species mitigation actions.

1 significant ramp-up delay occurred for a cetacean detection during this survey for 25 minutes.”