


Company : LDEO  
Vessel : Marcus G.Langseth  
Client : NSF

Project : MGL-0906 Taiger  
Area : Taiwan  
Start Date : 04 May 2009



Full Service Navigation, Positioning, and Survey Solutions

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[Vessel Sensor Offsets](#)

[Towing Offsets](#)

[Acoustic Offsets](#)

[Gun Array Offsets](#)

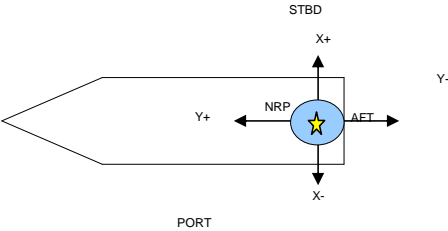
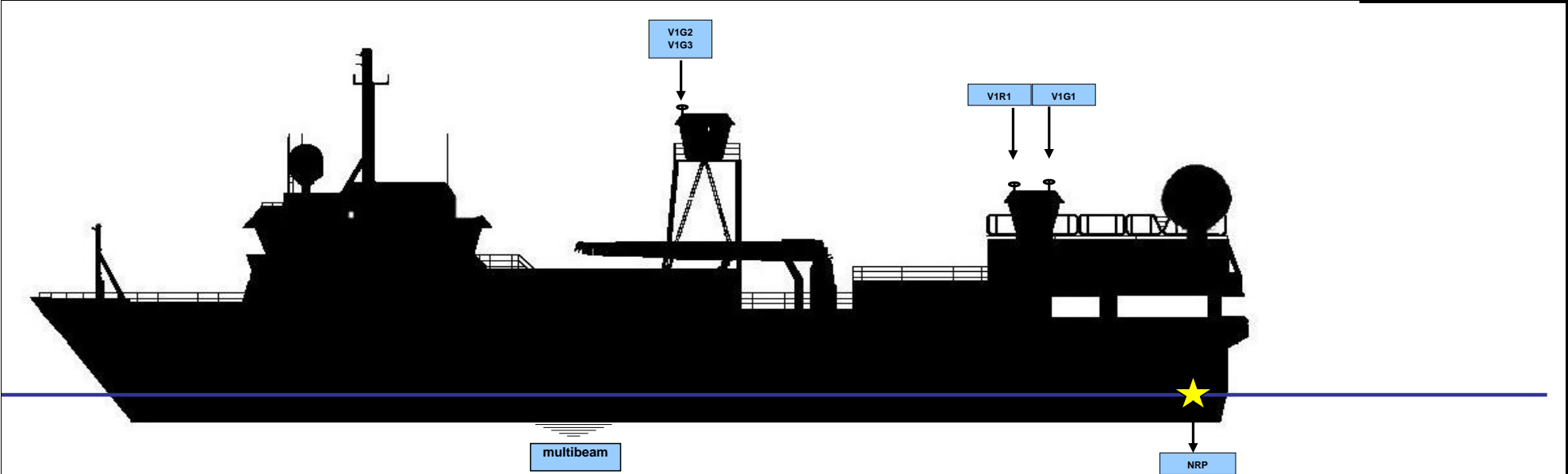
[Gun Configuration](#)

[Streamer Front End](#)

[Tailbuoy Offsets](#)

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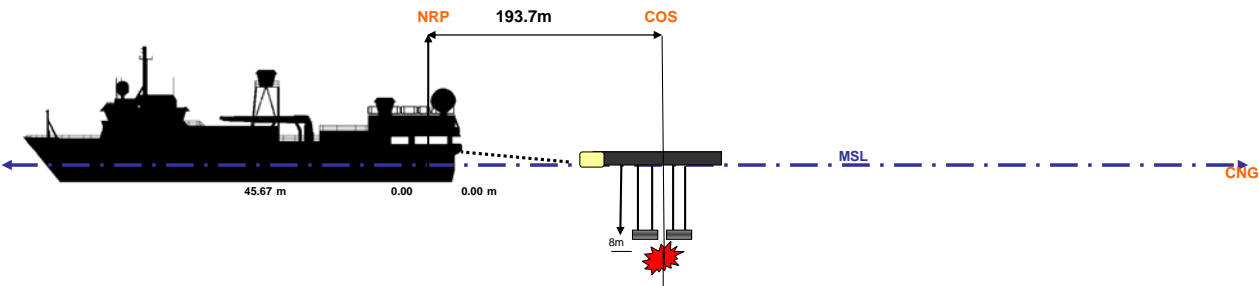
Note: All Echosounders are used in Spectra with 6.6m ship's draft correction applied.



		All measurements in meters		
		FORE/AFT (Y)	STBD/PORT (X)	UP/DOWN (Z)
NRP	NAVIGATION REFERENCE POINT	0.00	0.00	0.00
V1G1	C-Nav	8.06	4.87	14.50
V1G2	SeaPath 200	25.30	1.50	16.90
V1G3	Pos MV	22.30	8.50	16.90
V1G4	PosNet	10.45	4.87	14.50
V1R1	PosNet	10.45	4.87	14.50
EM120	Multibeam	49.70	8.50	-6.60

R/V Marcus G. Langseth - Towing Offsets

\*\*\* Offsets used for sequences 001 - >15



\*\*\* Offsets used for acquisition \*\*\*

NRP-Stem	4.20 m	
NRP-COS	193.70 m	
NRP-CNG		
COS-CNG		
NRP-CMP		

NRP	Nav Reference Point
COS	Centre of Source

All measurements in meters



\*\*\* Offsets used for sequences 016- XXX \*\*\*  
**Note:** NRP->CNG offset change to 362.0m at seq027 to end of Taiger2

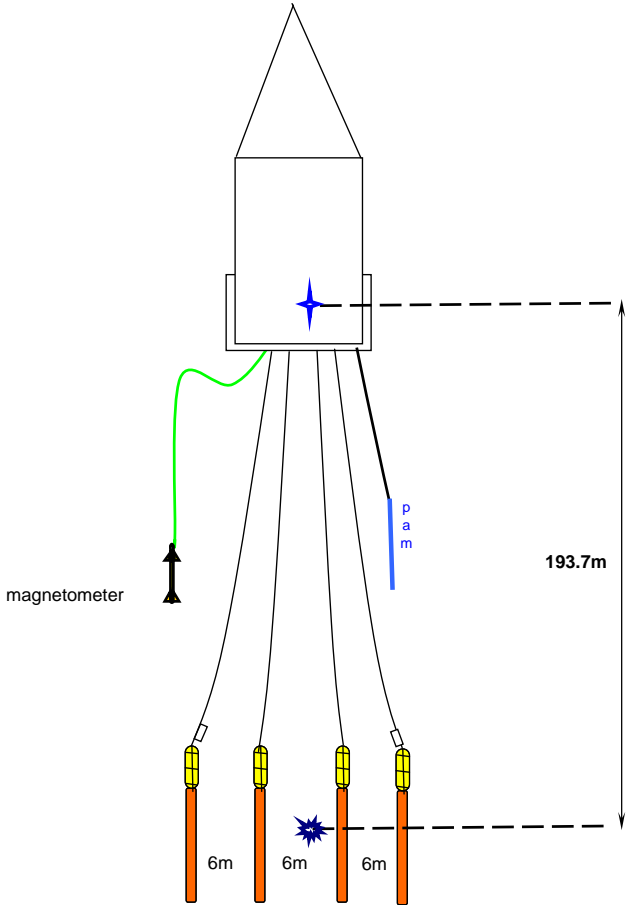


**All measurements in meters**





rv Marcus G. Langseth - Tow Configuration

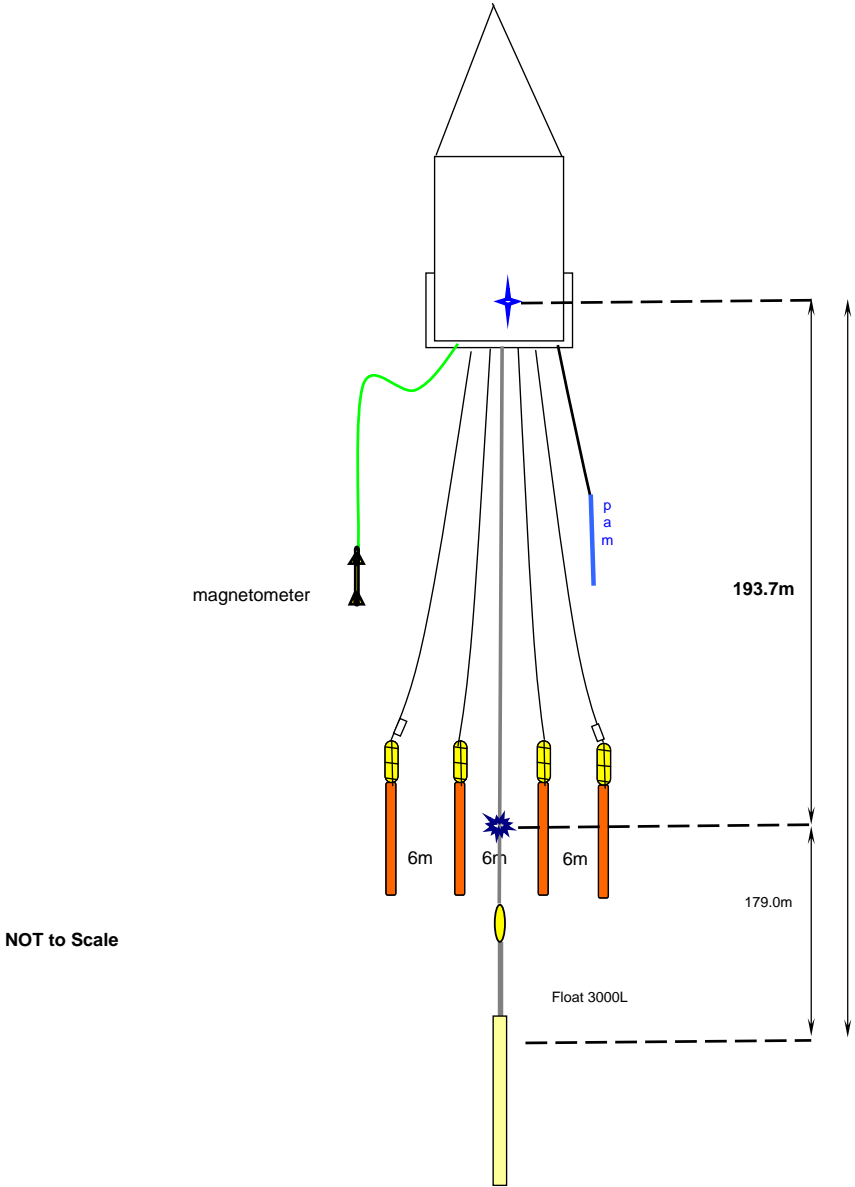
Source only

Sequences 001 - 015				
NRP-Stern	4.20	m	Layback	NRP  Nav Reference Point
NRP-COS	193.70	m		COS  Centre of Source
NRP-MAG	100	m	X = -20m	
NRP-PAM	70	m	X = 20m	

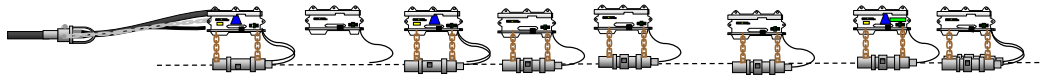
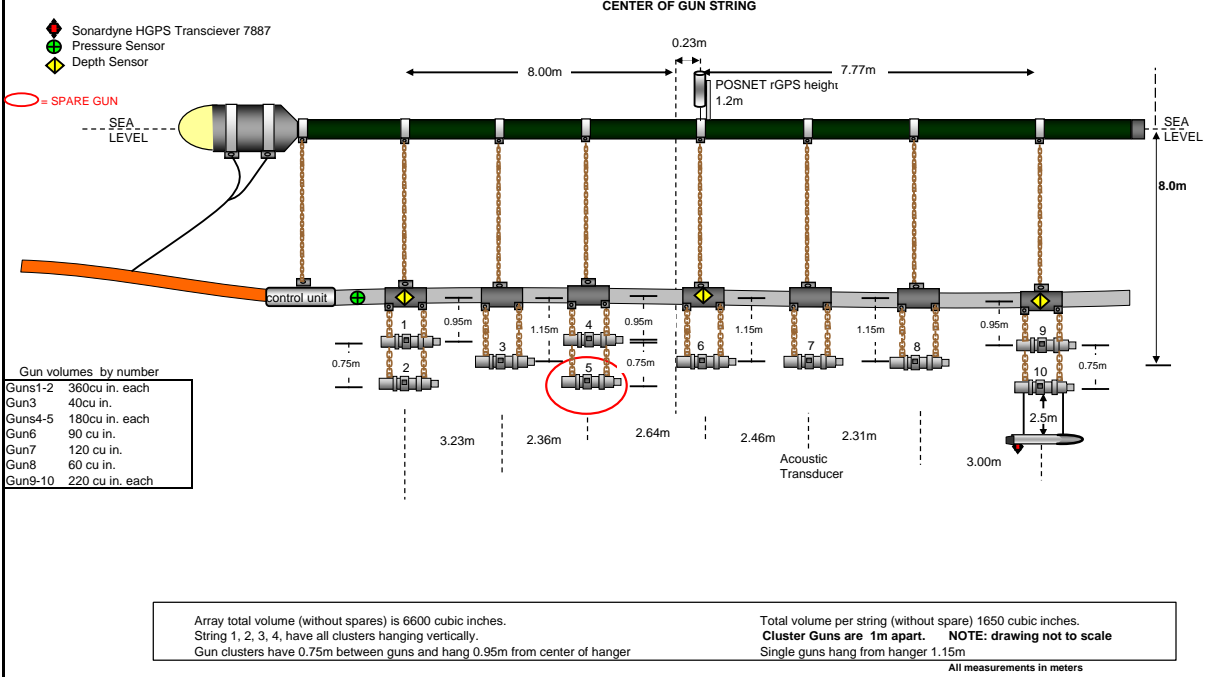


Source/Streamer

Sequences 016 - xxx				
NRP-Stern	4.20	m	Layback	NRP  Nav Reference Point
NRP-COS	193.70	m		COS  Centre of Source
NRP-CNG	372.70	m		CNG  Centre of Near Group (Trace # 468)
COS-CNG	179.00	m		CMP  Common Mid-Point
NRP-CMP	283.20	m		
NRP-MAG	100	m	X = -20m	
NRP-PAM	70	m	X = 20m	
				NRP->CNG changed from seq027 to end of trip was 372.7m. now 362'0m.



# R/V Marcus G. Langseth - Gun Array Offsets



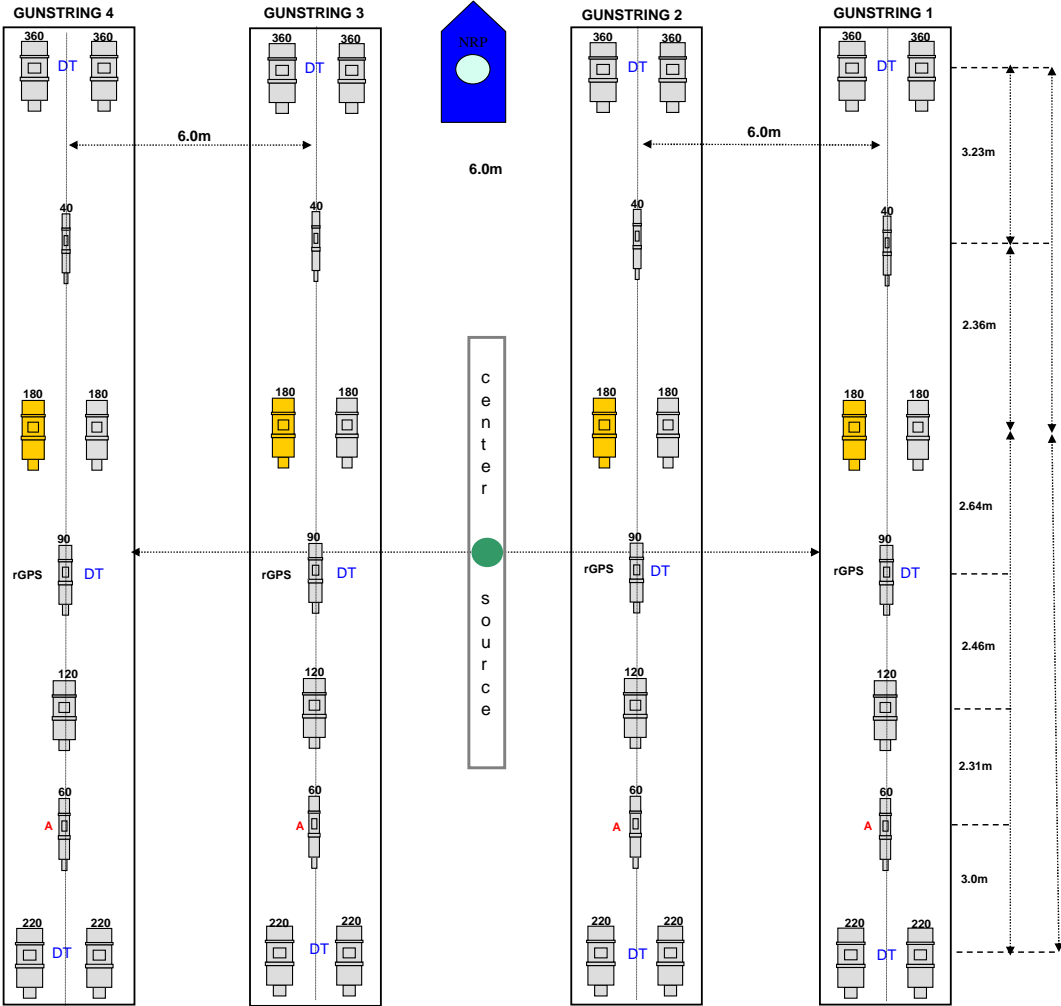
r/v Marcus G. Langseth - Gun Configuration

DT = Depth Transducer  
A = Acoustic  
P = Pressure Sensor - located  
in front of gun's 1 & 2  
Center of Source 1 & 2



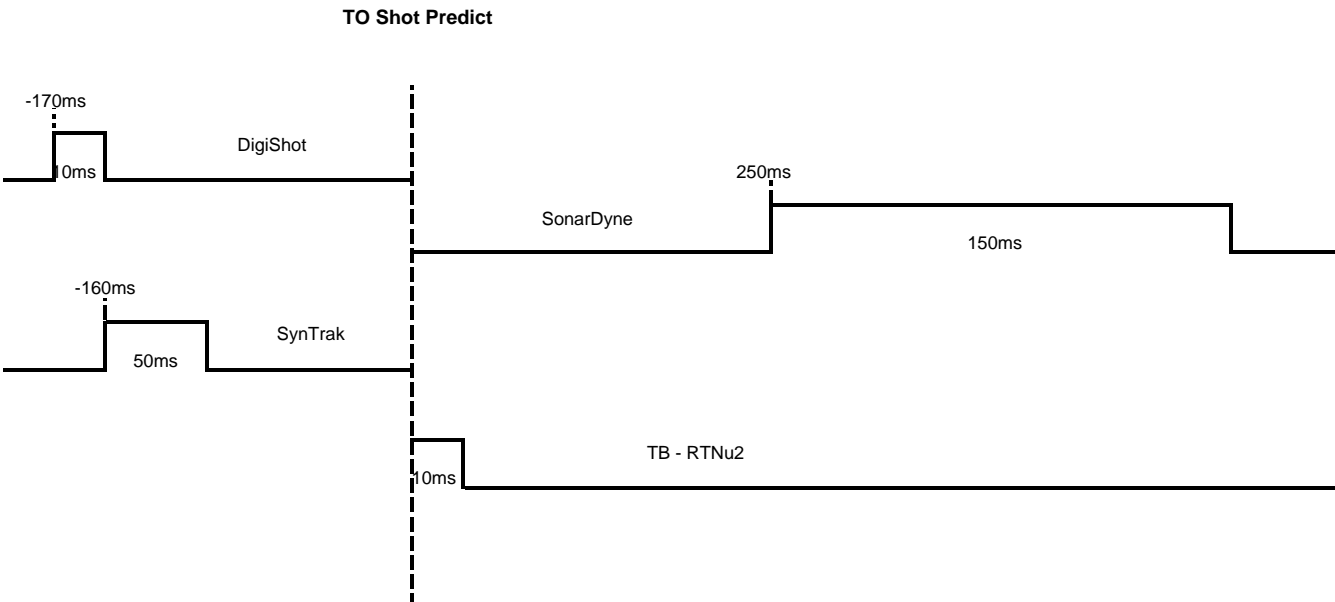
Cluster Guns are mounted 1m apart vertically

All measurements in meters



taiger 2

MGL0905





## Spectra timing for r/v Marcus G. Langseth

