

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](#)

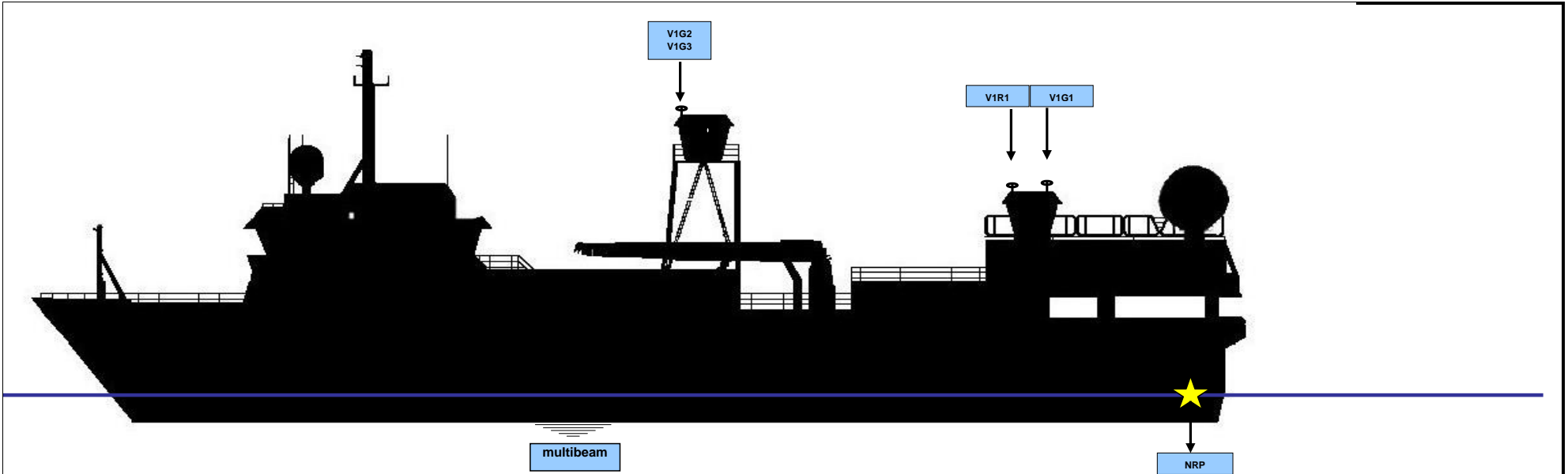
[Gun Configuration](#)

[Streamer Front End](#)

[Tailbuoy Offsets](#)

[Timing](#)

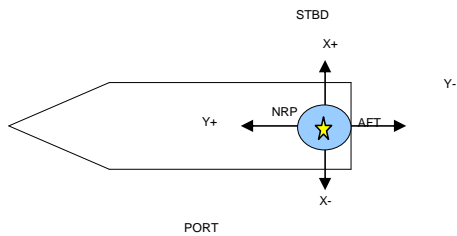




All measurements in meters



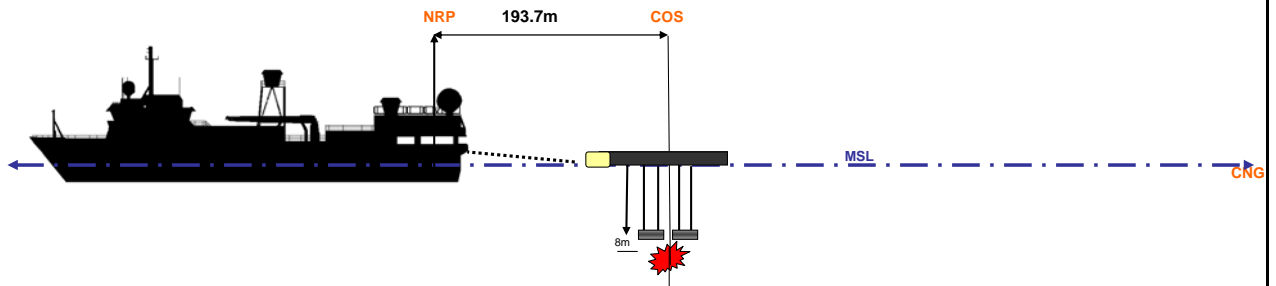
		FORE/AFT (Y)	STBD/PORT (X)	UP/DOWN (Z)
NRP	NAVIGATION REFERENCE POINT	0.00	0.00	0.00
V1G1	C-Nav	8.06	4.87	14.50
V1G2	SeaPath 200	25.30	1.50	16.90
V1G3	Pos MV	22.30	8.50	16.90
V1G4	PosNet	10.45	4.87	14.50
V1R1	PosNet	10.45	4.87	14.50
EM120	Multibeam	49.70	8.50	-6.60



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

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		

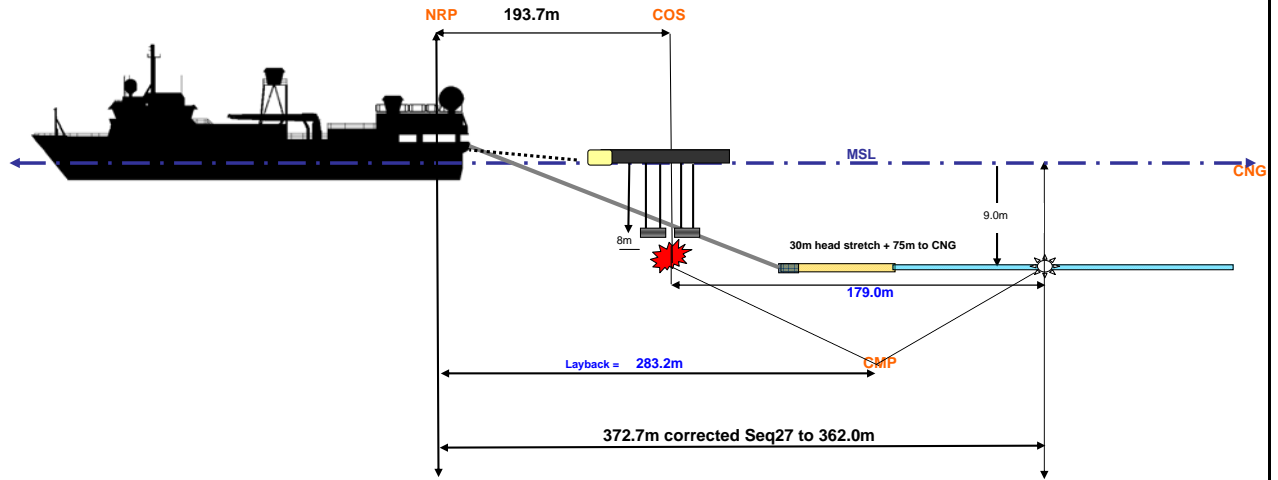
NRP	Nav Reference Point
COS	Centre of Source

All measurements in meters

R/V Marcus G. Langseth - Towing Offsets

*** Offsets used for sequences 016- XXX ***

Note: NRP->CNG offset change to 362.0m at seq027 to end of Tager2



*** Offsets used for acquisition ***		
NRP-Stem	4.20	m
NRP-COS	193.70	m
NRP-CNG	372.70	m
COS-CNG	179.00	m
NRP-CMP	283.20	m
		layback

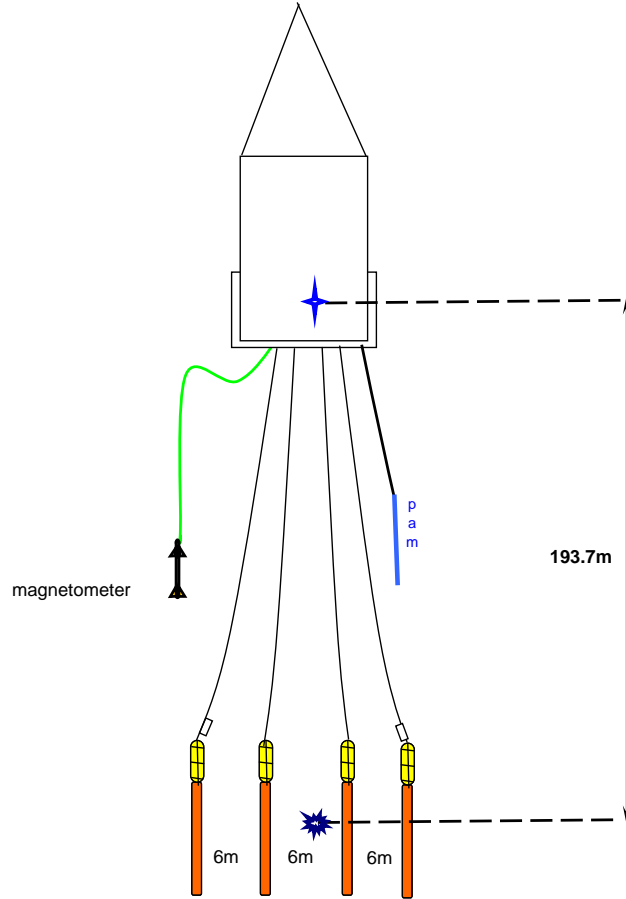
NRP	Nav Reference Point
COS	Centre of Source
CNG	Centre of Near Group (Trace # 001)
CMP	Common Mid-Point
MSL	Mean Sea Level

All measurements in meters

rv Marcus G. Langseth - Tow Configuration

Source only

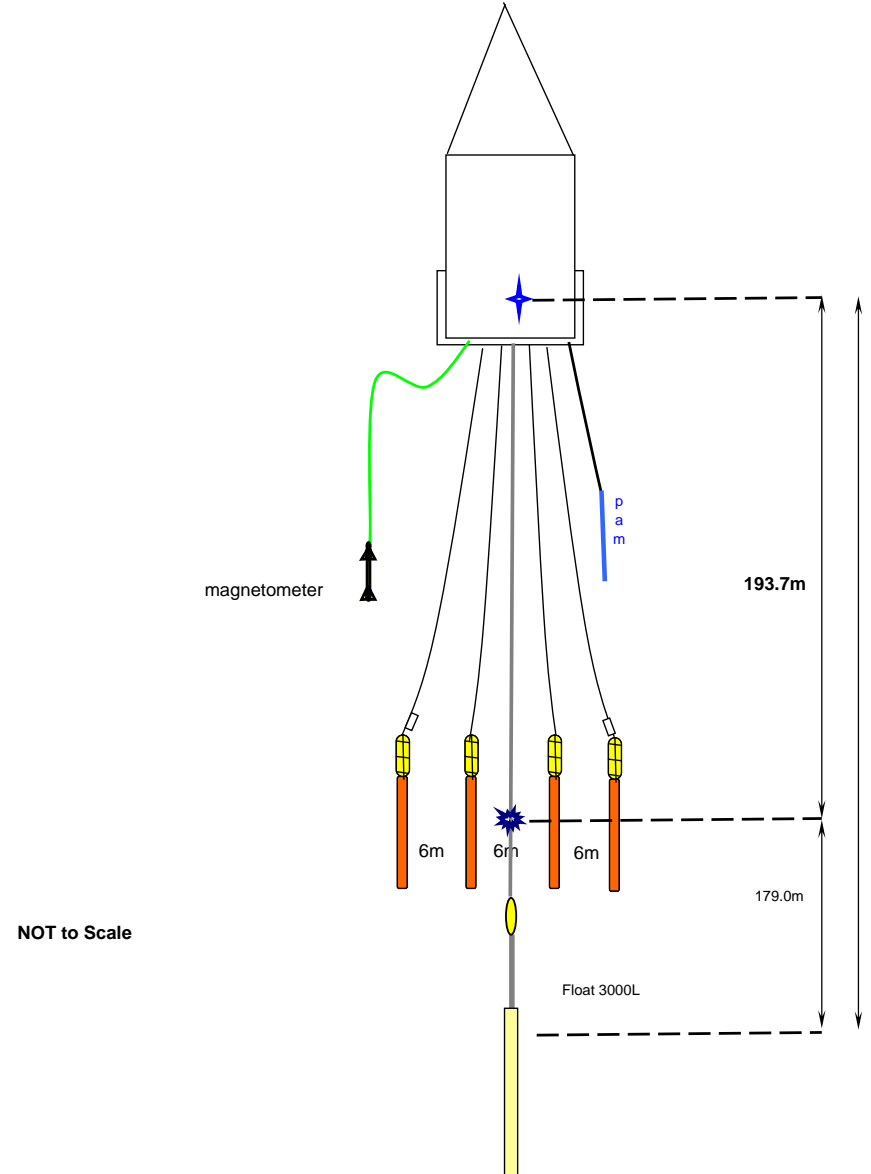
Sequences 001 - 015			
NRP-Stern	4.20	m	NRP Nav Reference Point
NRP-COS	193.70	m	COS Centre of Source
			Layback
NRP-MAG	100	m	X = -20m
NRP-PAM	70	m	X = 20m



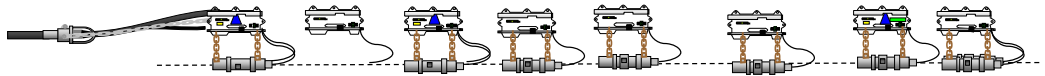
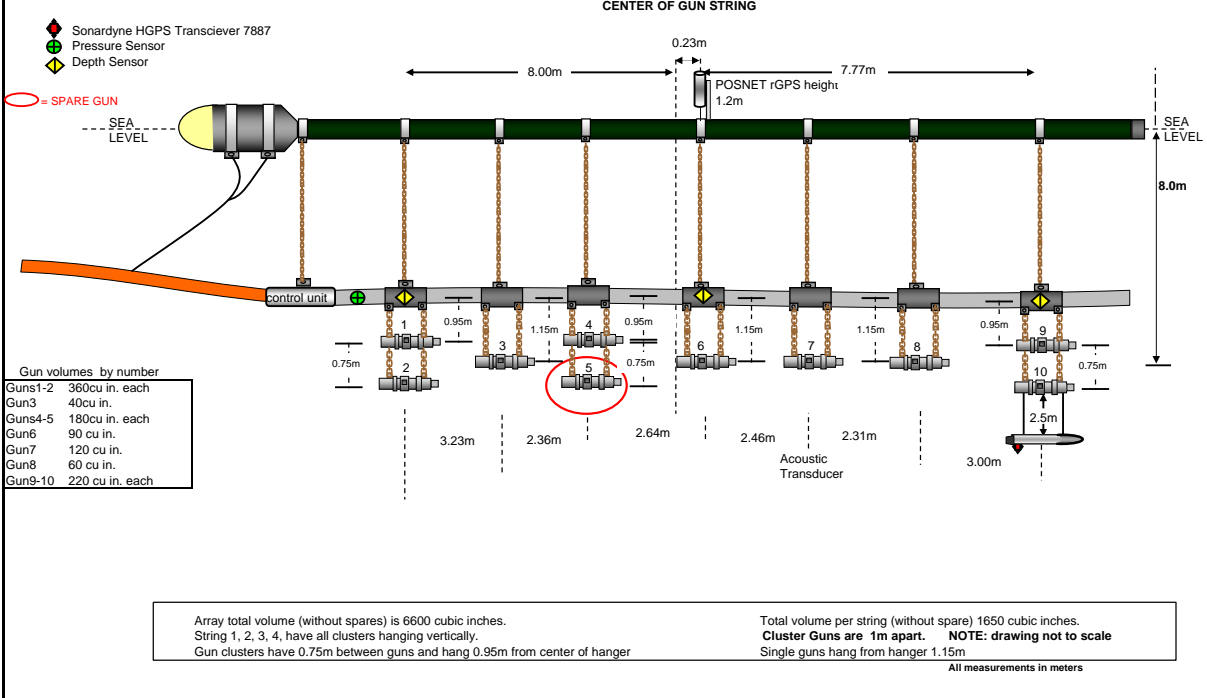
Source/Streamer

Sequences 016 - xxx			
NRP-Stern	4.20	m	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	362.0m
NRP-CMP	283.20	m	Layback
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

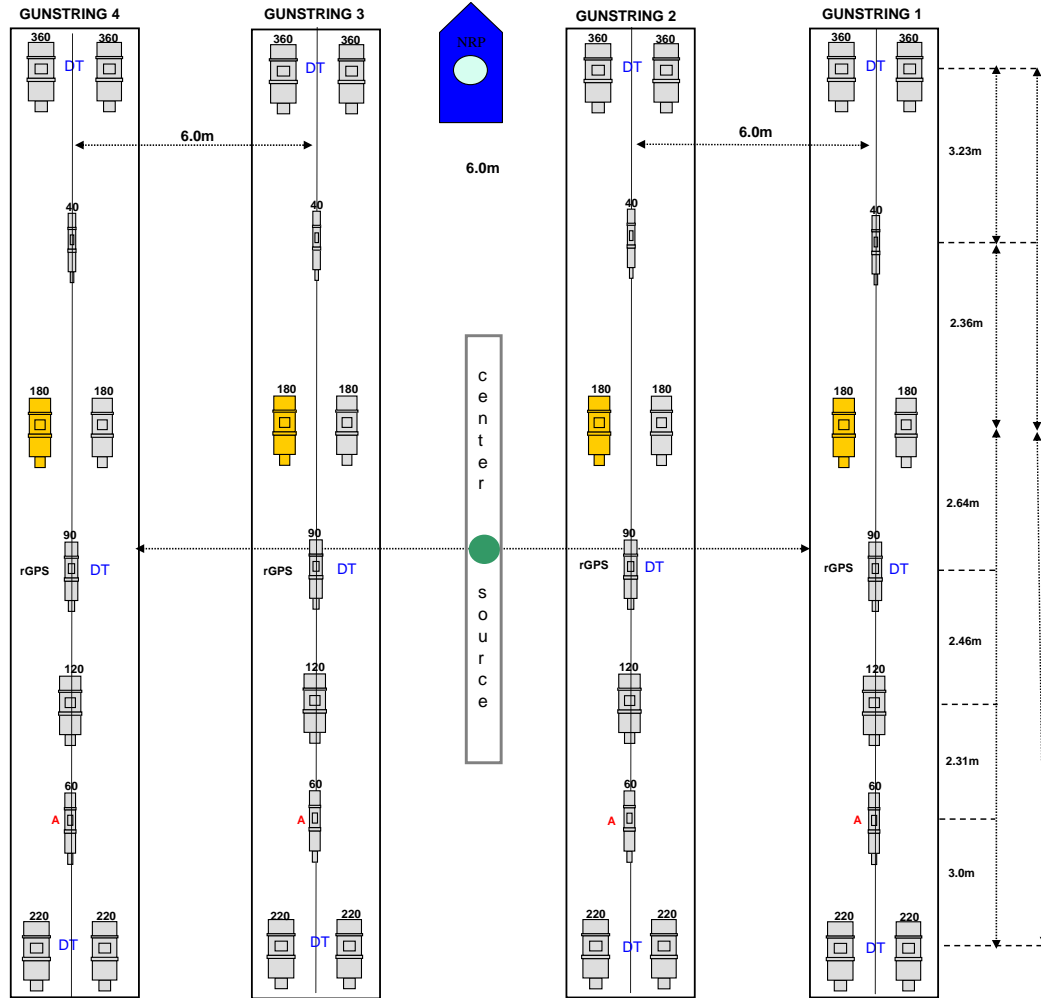
DT = Depth Transducer
 A = Acoustic
 P = Pressure Sensor - located
 in front of gun's 1 & 2

● Center of Source 1 & 2

■ Spare Gun

Cluster Guns are mounted 1m apart vertically

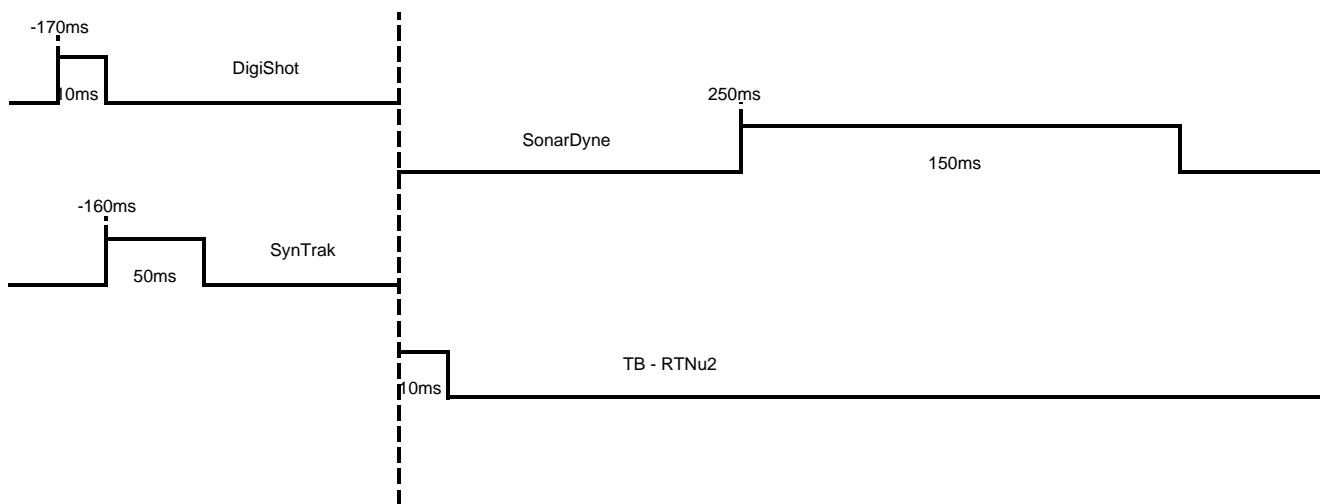
All measurements in meters



taiger 2

MGL0905

TO Shot Predict



Spectra timing for r/v Marcus G. Langseth

