

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

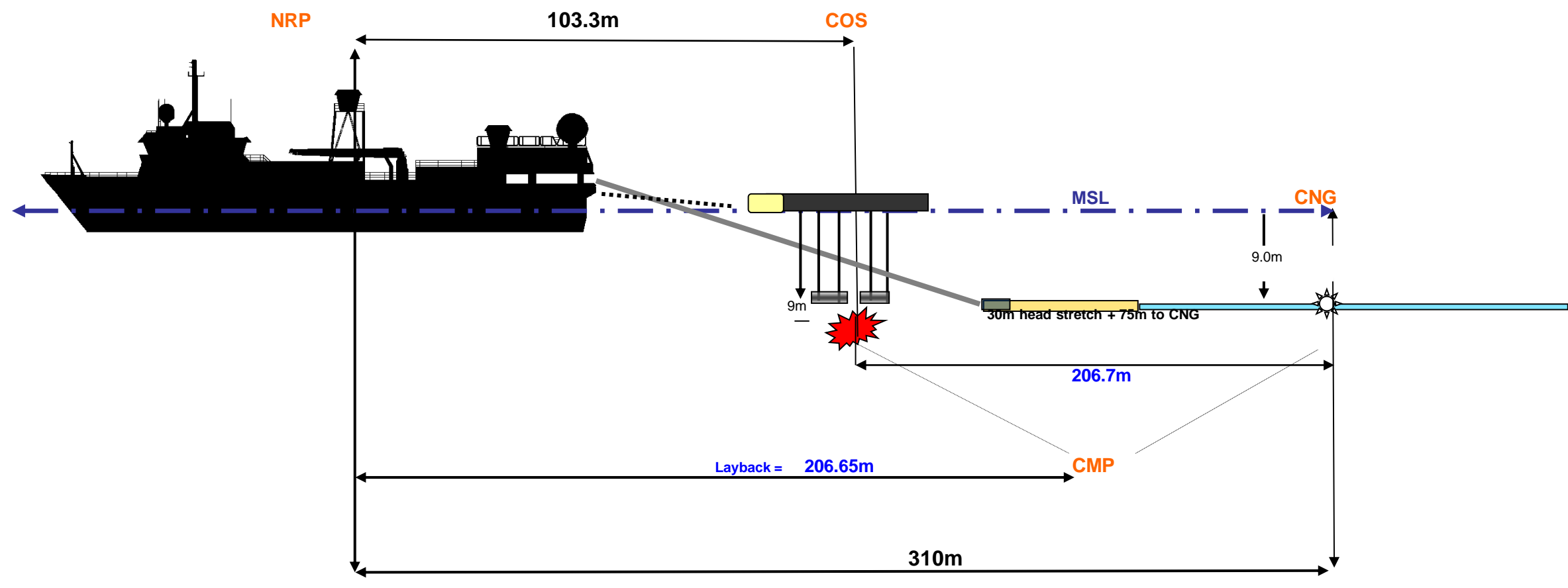
Project : MGL1112
Area : Coakley - Chukchi Plate
Start Date : 07 September 2011



Vessel Sensor Offsets
Towing Offsets
Acoustic Offsets
Gun Array Offsets
Gun Configuration
Streamer Front End
Tailbuoy Offsets
Timing Langseth
Timing Spectra



R/V Marcus G. Langseth - Towing Offsets - Gun String 4 at 9m



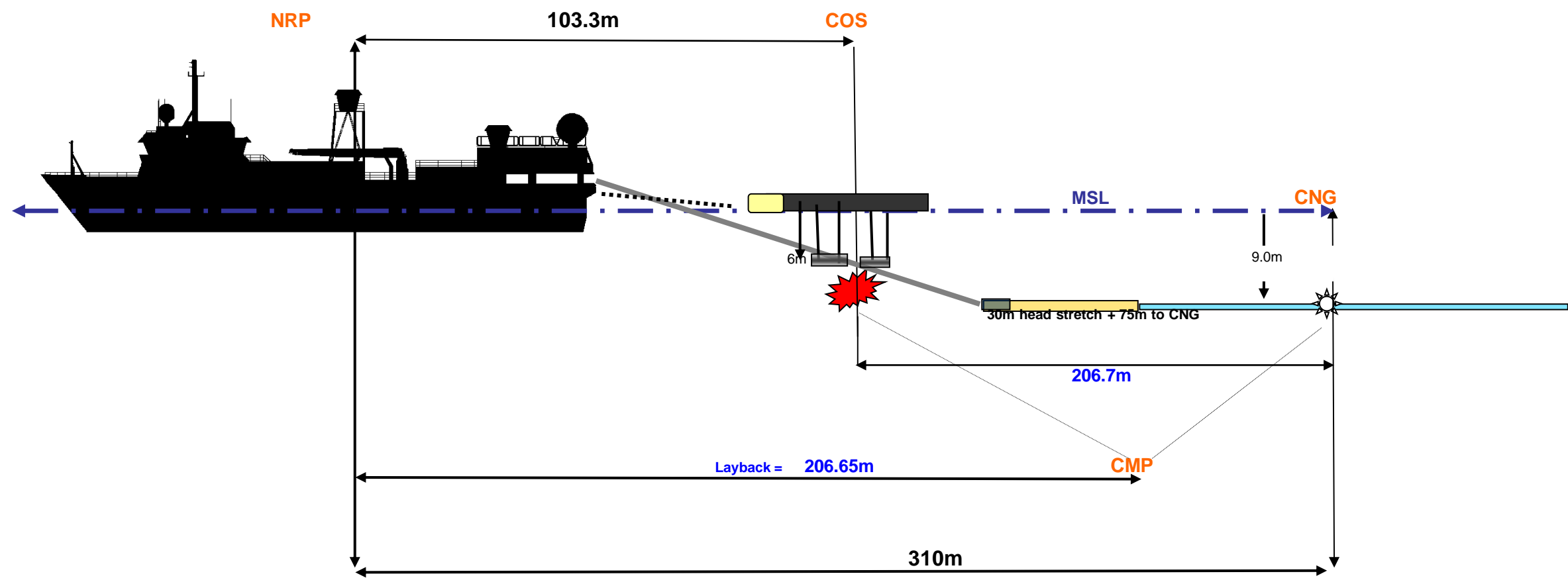
**** Offsets used for acquisition of Source String 4 ****

NRP-Stern	29.50	m	
NRP-COS	103.30	m	
NRP-CNG	310.00	m	
COS-CNG	206.70	m	
NRP-CMP	206.65	m	

NRP	Nav Reference Point
COS	Centre of Source
CNG	Centre of Near Group (Trace # 468)
CMP	Common Mid-Point
MSL	Mean Sea Level

All measurements in meters

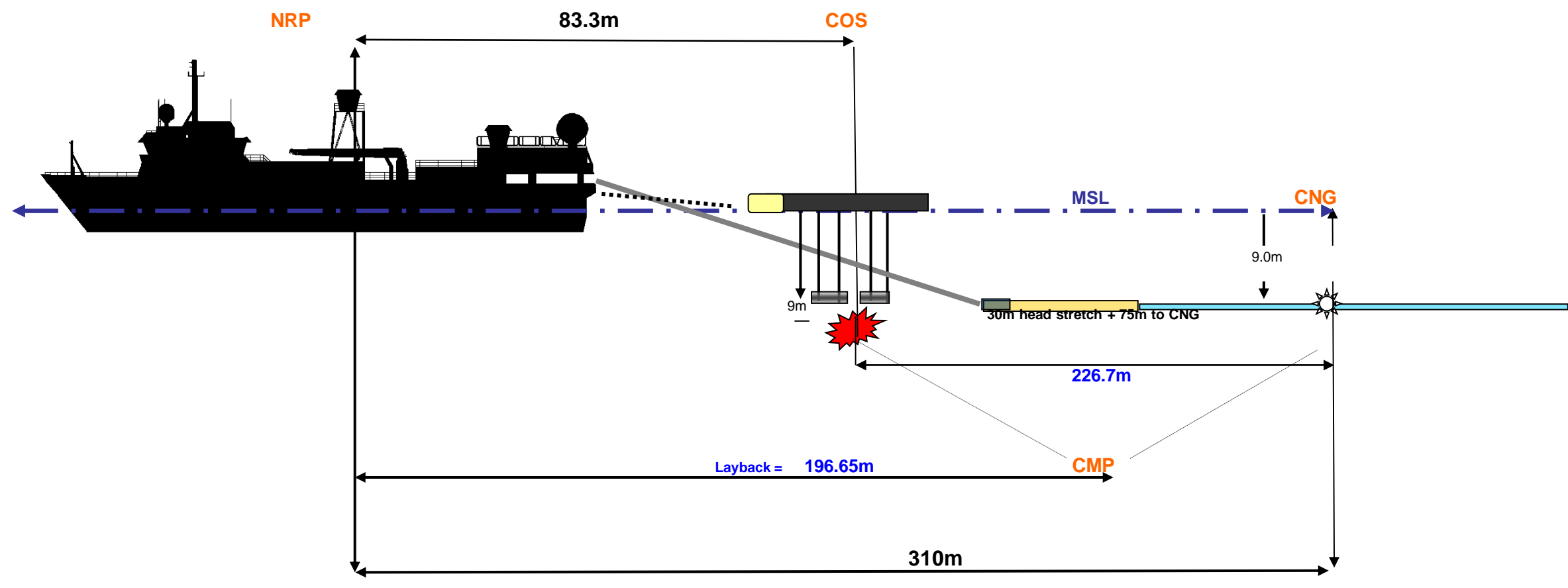
R/V Marcus G. Langseth - Towing Offsets - Gun String 4 at 6m



** Offsets used for acquisition of Source String 4 **				
NRP-Stern	29.50	m	NRP	Nav Reference Point
NRP-COS	103.30	m	COS	Centre of Source
NRP-CNG	310.00	m	CNG	Centre of Near Group (Trace # 468)
COS-CNG	206.70	m	CMP	Common Mid-Point
NRP-CMP	206.65	m	MSL	Mean Sea Level

All measurements in meters

R/V Marcus G. Langseth - Towing Offsets - Gun String 3 at 9m



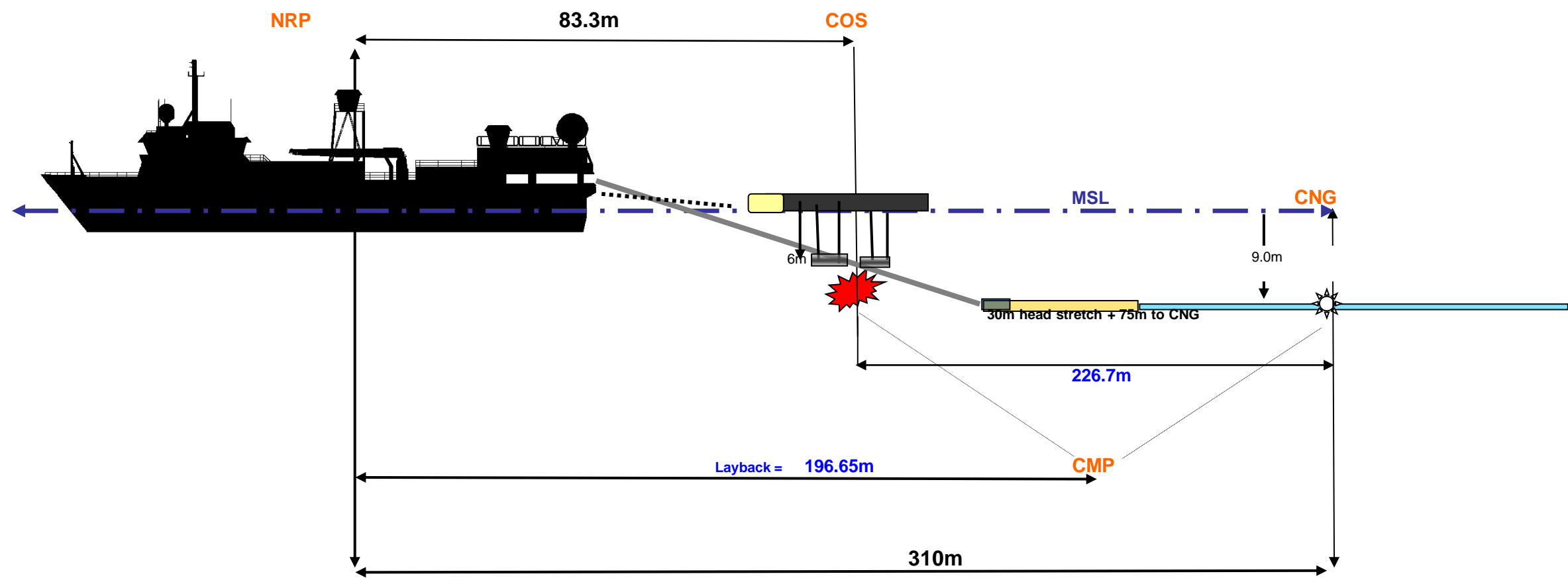
**** Offsets used for acquisition of Source String 3 ****

NRP-Stern	29.50	m	
NRP-COS	83.30	m	
NRP-CNG	310.00	m	
COS-CNG	226.70	m	
NRP-CMP	196.65	m	

NRP	Nav Reference Point
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All measurements in meters

R/V Marcus G. Langseth - Towing Offsets - Gun String 3 at 6m



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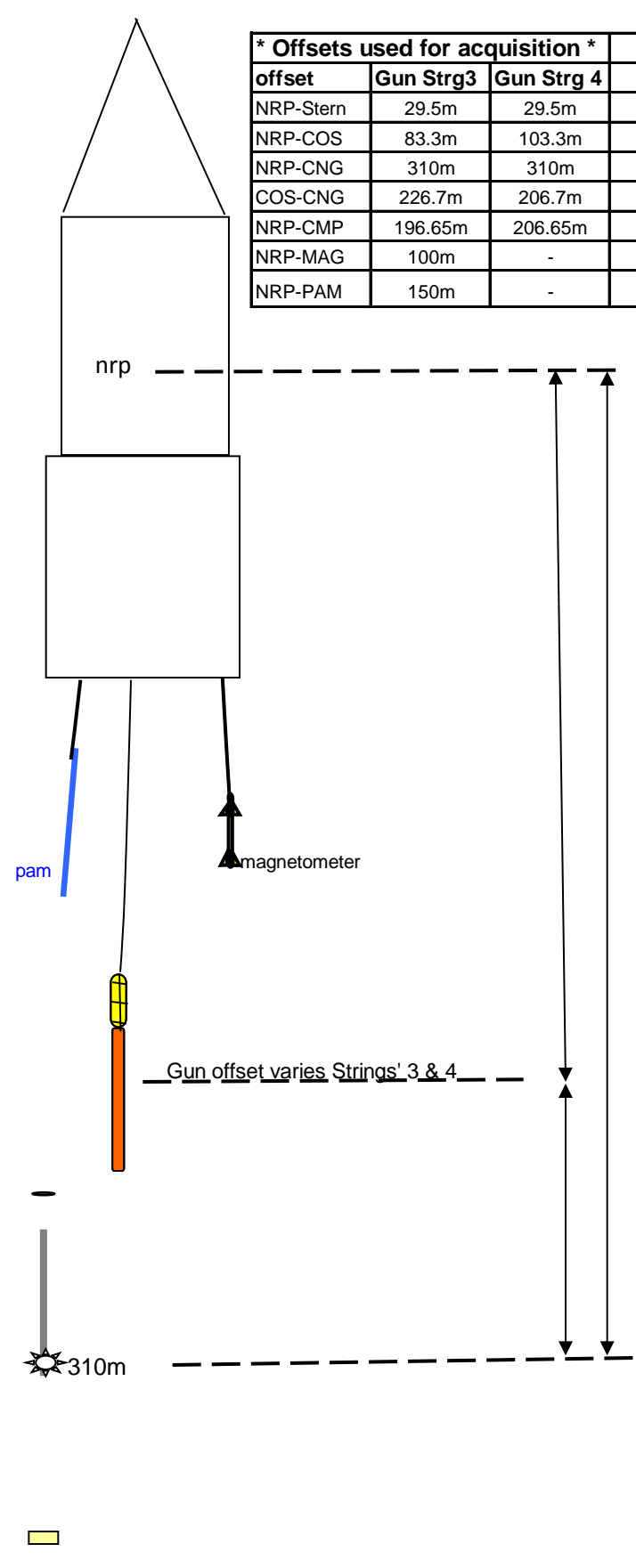
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All measurements in meters

R/V Marcus G. Langseth "tow" configuration

R/V Marcus Langseth
1 x 8000
4 Gunstrings

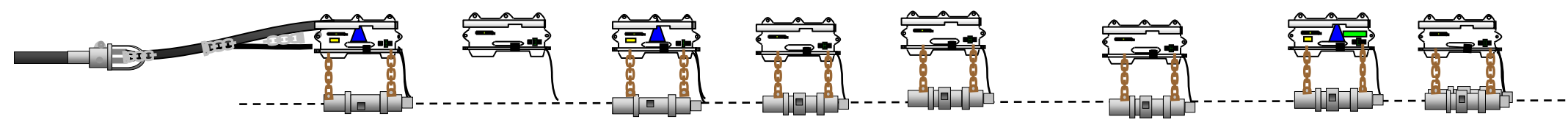
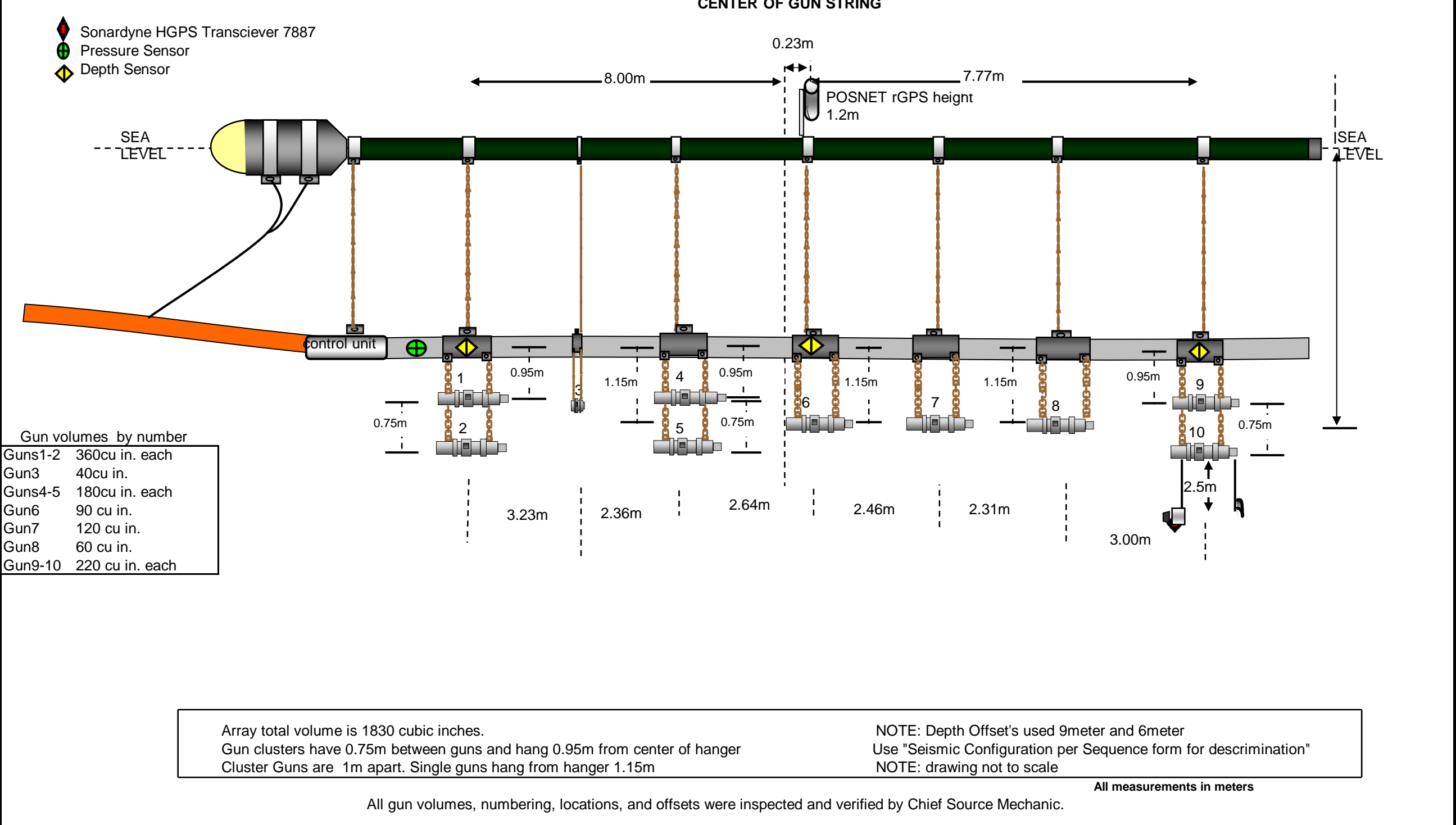
NOT to Scale



* Offsets used for acquisition *		
offset	Gun Strg3	Gun Strg 4
NRP-Stem	29.5m	29.5m
NRP-COS	83.3m	103.3m
NRP-CNG	310m	310m
COS-CNG	226.7m	206.7m
NRP-CMP	196.65m	206.65m
NRP-MAG	100m	-
NRP-PAM	150m	-

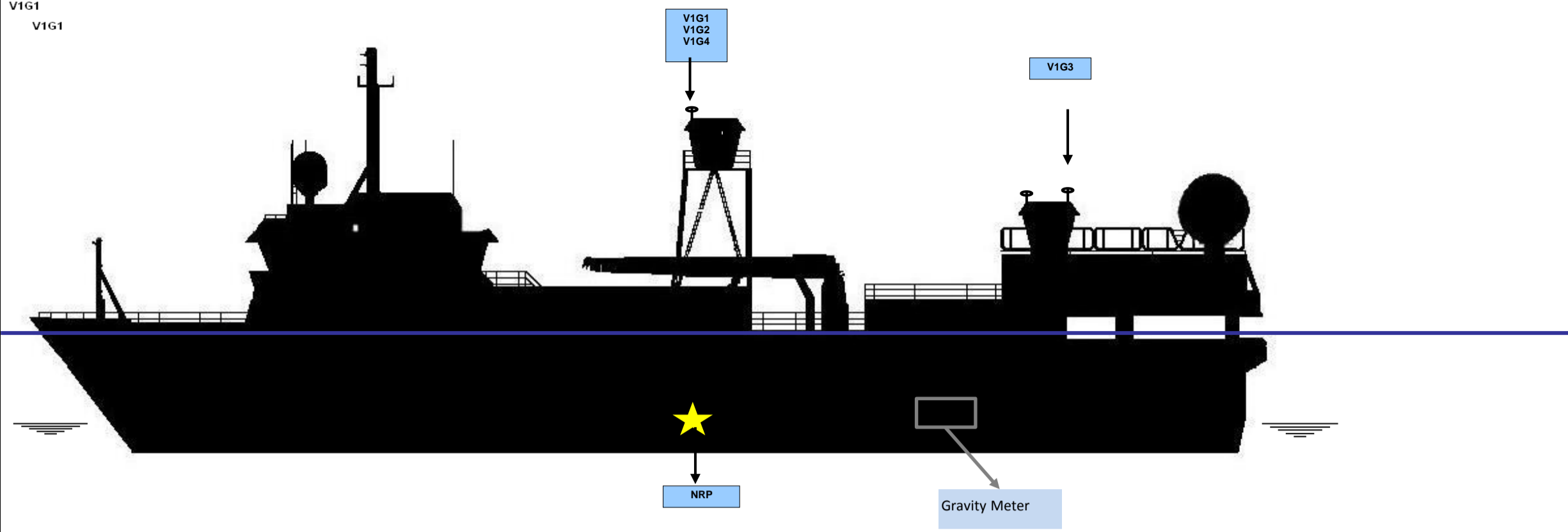
NRP	Nav Reference Point
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R/V Marcus G. Langseth - Gun Array Offsets



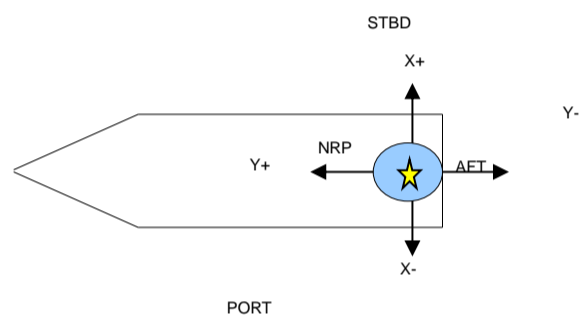
V1G1

V1G1



All measurements in meters

		STBD/PORT (X)	FORE/AFT (Y)	UP/DOWN (Z)	
★	NRP	NAVIGATION REFERENCE POINT	0.00	0.00	0.00
	V1G1	C-Nav 3050	0.00	0.00	-16.90
	V1G2	SeaPath 200	0.00	1.50	-16.90
	V1G3	C-Nav 2000	4.87	-15.27	-14.50
	V1G4	Pos MV	-1.30	1.20	-16.90
	V1R1	PosNet	-1.30	0.00	-16.90
	EM122	Multibeam Transducer Array	0.00	20.20	7.49
	MRU	Seapath MRU	2.30	-14.16	-4.30
□	BGM	Bell Gravity Meter	4.40	-13.10	-3.49



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

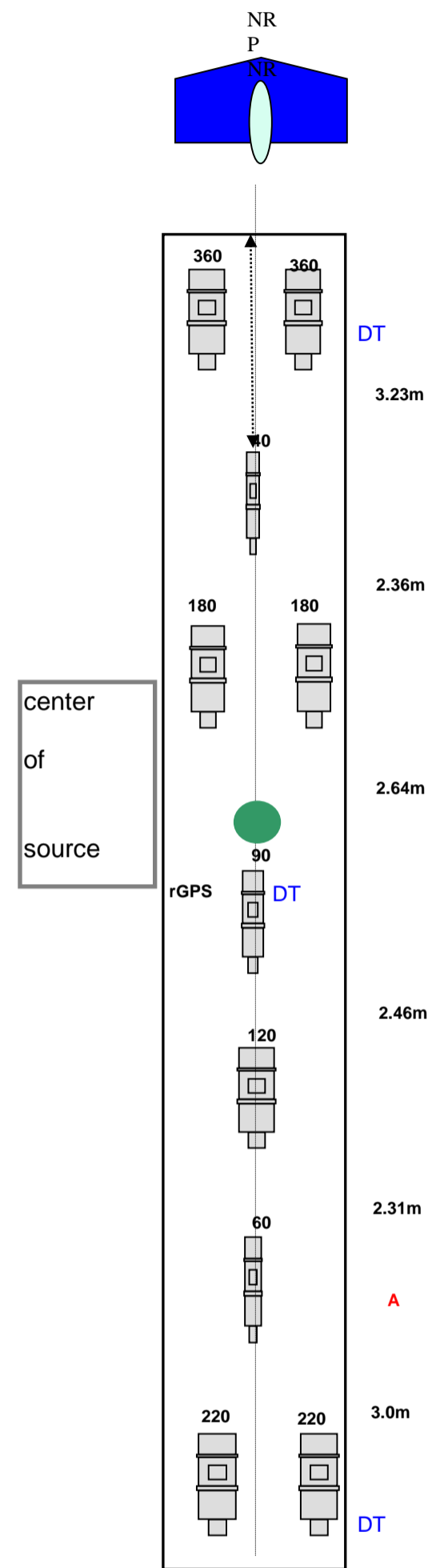
r/v Marcus G. Langseth - Gun Configuration

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

 Center of Source

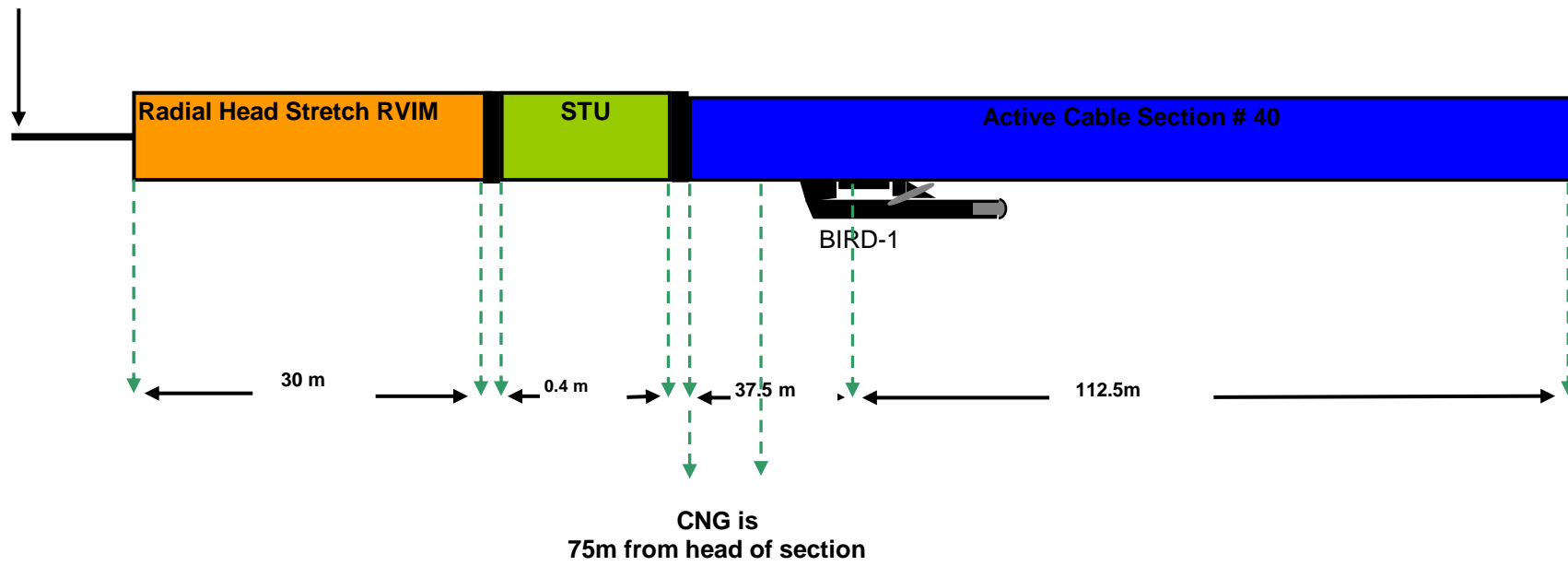
Cluster Guns are mounted 1m apart
 Strings 3 & 4 all clusters mounted
 vertically.

All measurements in meters

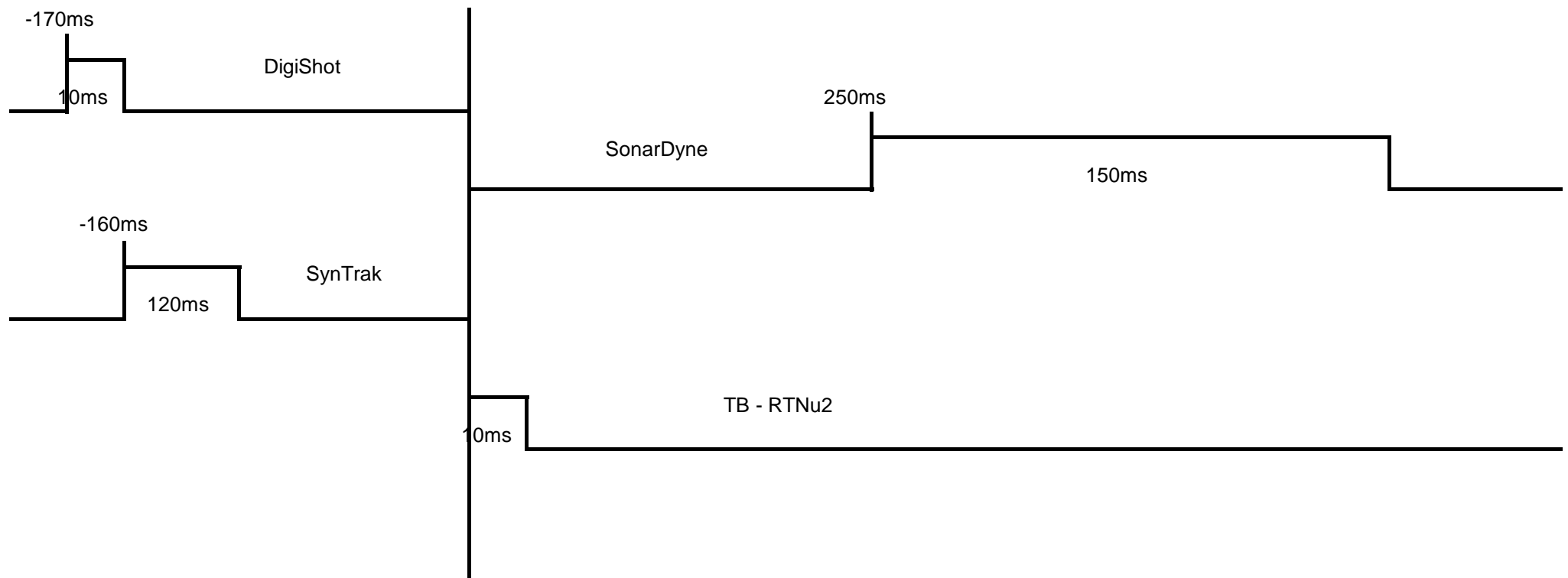


R/V Marcus G. Langseth - Streamer Front End

Lead-in:
Outer = 505m
Inner = 465m



TO Shot Predict



Spectra timing for r/v Marcus G. Langseth

