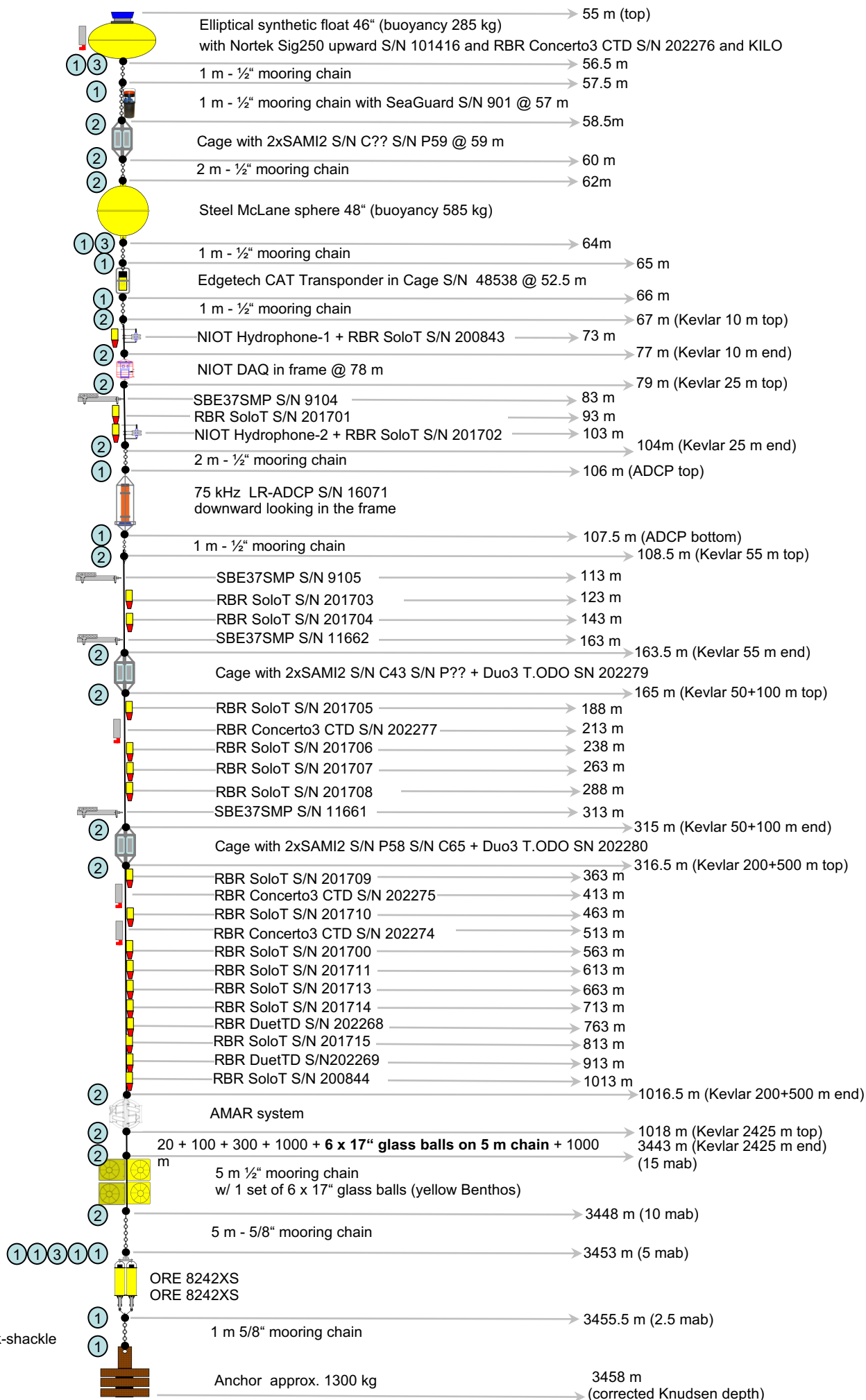
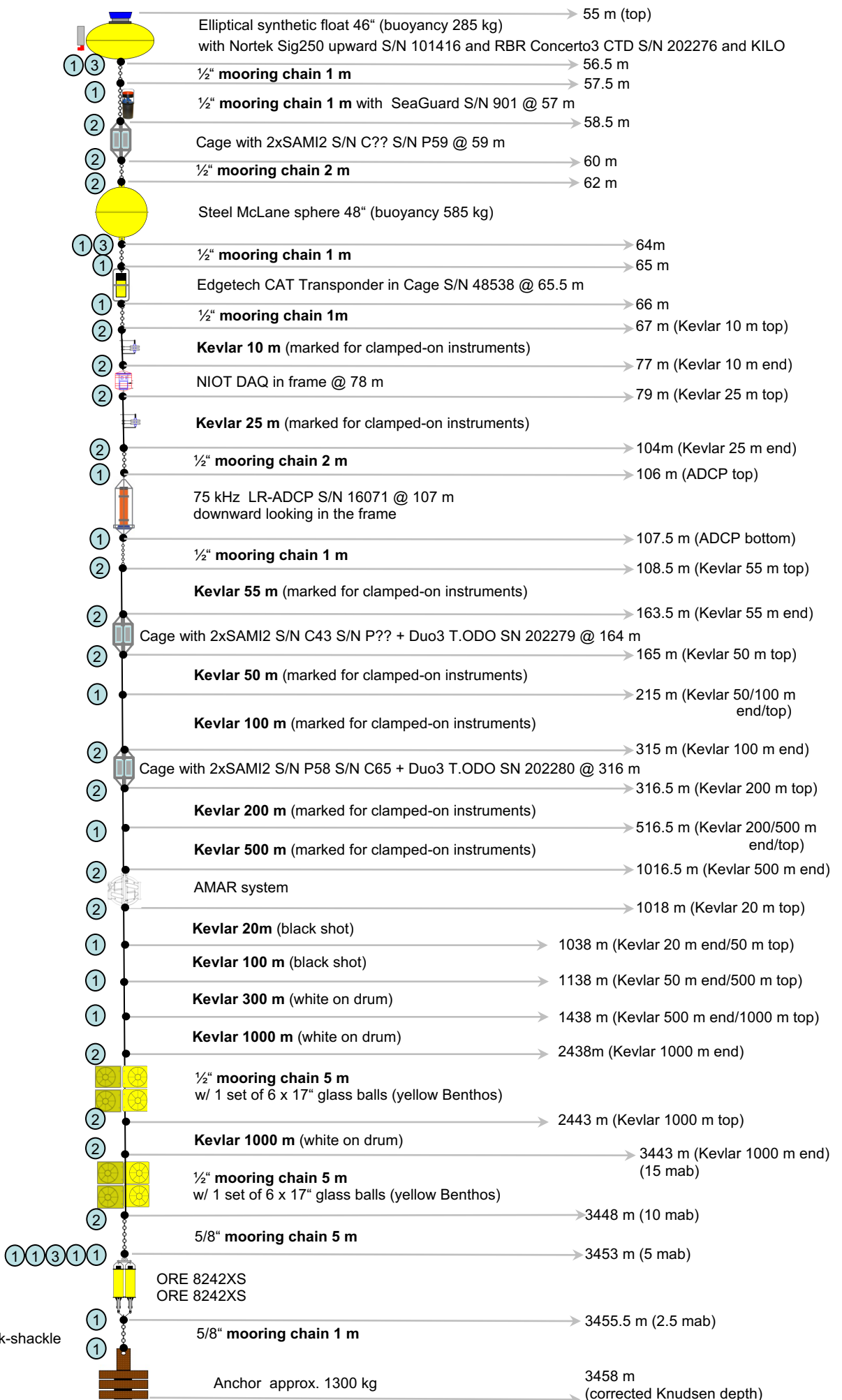


CAATEX 2019 deployment of INTAROS Mooring NERSC-4



- ① shackle
- ② shackle-link-shackle
- ③ swivel

CAATEX 2019 deployment of INTAROS Mooring NERSC-4



- ① shackle
- ② shackle-link-shackle
- ③ swivel

Instrument name	SN	Depth	Owner	Attached	Comments
Nortek Signature250	101416	55 m	IOPAN	inline	
RBR Concerto3 CTD	202276	56 m	IOPAN	clamped	
AADI SeaGuard SW	901	57 m	IOPAN	clamped	frame clamped to the chain
2 x SAMI pCO2/pH	C??/P59	59 m	UiB-GFI	inline	with slack line
RBR Solo3 T	200843	72.5 m	IOPAN	clamped	above NIOT Hydrophone-1
NIOT Hydrophone-1	H1	73 m	NIOT	clamped	cabled to NIOT DAQ, cable clamped to Kevlar 11 m
NIOT DAQ system		78 m	NIOT	inline	
SeaBird SBE37SMP	9104	83 m	NERSC	clamped	
RBR Solo3 T	201701	93 m	IOPAN	clamped	
NIOT Hydrophone-2	H2	103 m	NIOT	clamped	cabled to NIOT DAQ, cable clamped to Kevlar 25 m
RBR Solo3 T	201702	103.5 m	IOPAN	clamped	above or below NIOT Hydrophone-2
TRDI ADCP LR 75 Hz	16071	107 m	NERSC	inline	
SeaBird SBE37SMP	9105	113 m	NERSC	clamped	
RBR Solo3 T	201703	123 m	IOPAN	clamped	
RBR Solo3 T	201704	143 m	IOPAN	clamped	
SeaBird SBE37SMP	11662	163 m	IOPAN	clamped	
2 x SAMI pCO2/pH	C43/P??	164 m	UiB-GFI	inline	with slack line
RBR Duo3 T.ODO	202279	164 m	IOPAN	clamped	clamped to SAMI frame
RBR Solo3 T	201705	188 m	IOPAN	clamped	
RBR Concerto3 CTD	202277	213 m	IOPAN	clamped	
RBR Solo3 T	201706	238 m	IOPAN	clamped	
RBR Solo3 T	201707	263 m	IOPAN	clamped	
RBR Solo3 T	201708	288 m	IOPAN	clamped	
SeaBird SBE37SMP	11661	313 m	IOPAN	clamped	
2 x SAMI pCO2/pH	P58/C65	316 m	UiB-GFI	inline	with slack line
RBR Duo3 T.ODO	202280	316 m	IOPAN	clamped	clamped to SAMI frame
RBR Solo3 T	201709	363 m	IOPAN	clamped	
RBR Concerto3 CTD	202275	413 m	IOPAN	clamped	
RBR Solo3 T	201710	463 m	IOPAN	clamped	
RBR Concerto3	202274	513 m	IOPAN	clamped	
RBR Solo3 T	201700	563 m	IOPAN	clamped	
RBR Solo3 T	201711	613 m	IOPAN	clamped	
RBR Solo3 T	201713	663 m	IOPAN	clamped	
RBR Solo3 T	201714	713 m	IOPAN	clamped	
RBR Duet3 TD	202268	763 m	IOPAN	clamped	
RBR Solo3 T	201715	813 m	IOPAN	clamped	
RBR Duet3 TD	202269	913 m	IOPAN	clamped	
RBR Solo3 T	200844	1013 m	IOPAN	clamped	
AMAR PAR system		1017 m	FFI	inline	

Mooring ID	NERSC-4	Latitude	81° 47.094'N
Deployed	5.09.2019 13:15 UTC	Longitude	022° 00.280'E
INTAROS/CAATEX mooring with instruments from different partners		Water depth	3512 m (uncorrected Knudsen) 3458 m (corrected depth)

Deep temperature sensors

Instrument name	SN	Depth	Owner	Attached	Comments
RBR Duet3 TD deep	202272	1437 m	IOPAN	clamped	
RBR Duet3 TD deep	202273	2437 m	IOPAN	clamped	
RBR Solo3 T deep	202267	3442 m	IOPAN	clamped	

Kevlars and chains

Material	Length	Top depth	End depth	Marking – distance from the top
Mooring chain	1 m	56.5 m	57.5 m	-
Mooring chain	1 m	57.5 m	58.5 m	mooring chain with SeaGuard frame
Mooring chain	2 m	60 m	62 m	-
Mooring chain	1 m	64 m	65 m	-
Mooring chain	1 m	66 m	67 m	-
Kevlar (1 shot)	10 m	67 m	77 m	marking for NIOT Hyd1 and RBRs
Kevlar (1 shot)	25 m	79 m	104 m	marking for SBE37, NIOT Hyd2 and RBRs
Mooring chain	2 m	104 m	106 m	-
Mooring chain	1 m	107.5 m	108.5 m	-
Kevlar (1 shot)	55 m	108.5 m	163.5 m	marking for SBE37 and RBRs (see Table)
Kevlar (50 + 100)	150 m	165 m	315 m	marking for SBE37 and RBRs (see Table)
Kevlar (200 + 500)	700 m	316.5 m	1016.5 m	marking for SBE37 and RBRs (see Table)
Kevlar (20 + 100)	120 m	1018 m	1138 m	-
Kevlar (1 shot)	300 m	1138 m	1438 m	RBR Duet3 TD deep at the bottom end
Kevlar (1 shot)	1000 m	1438 m	2438 m	RBR Duet3 TD deep at the bottom end
Chain (for Benthos)	5 m	2438 m	2443 m	-
Kevlar (1 shot)	1000 m	2443 m	3443 m	RBR Solo3 T deep at the bottom end
Chain (for Benthos)	5 m	3443 m	3448 m	-
Anchor chain	1 m	2.5 mab	1.5 mab	-

Buoyancy

Element	Buoyancy	Depth planned	Depth rating	Owner	Comments
MSI elliptical synthetic float 46"	285 kg	56 m	300 m	IOPAN	
McLane steel sphere 48"	585 kg	63 m	564 m	NERSC	
6 x 17" glass balls (Benthos)	150 kg	2438 m	6700 m	NERSC	Between 1000 m shots
6 x 17" glass balls (Benthos)	150 kg	3443 m	6700 m	NERSC	Above the releases