

Overview

- 1. Team Structure & Responsibilities
- 2. Data Flow & Products
- 3. Data Review
- 4. Communications
- 5. Improvements
- 6. Conclusions









Data Flow Example: Pioneer Profiler









Current Data Processing Flow









OOI Data Sheets (Preload, Bulk Load)

frie	drichknuth Changed units from meters to m and seconds to s 45e0396 6 days ago
contr	ibutors 🎬 🖨 🗶 🖉
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We ca	n't make this file beautiful and searchable because it's too large.
	scenario confluence name id hid hidconflict narametertyne dimensions valueencoding codeset unitofmeasure fillvalue displayname precision vi-
2	DOC:Definition, "System internal name of the parameter.
4	Parameter are allowed to have the same name, as long as the attributes are different. The HID and ID columns determine uniqueness.", "Param
6	This is the ""global"" identifier for the parameter. It should be UNIQUE and STATIC among all parameters as it will be used to identify th
0	CALLULATED THOM THE TOILOWING ATTRIBUTES OF A parameter: Name, Parameter Type, Value Encoding, and Unit of Measure
10	Intended for rapid comparison of parameters by a human. NOT utilized programmatically for comparison. Naw he used to calculate the TD.
	MUST be unique - if not, will be indicated in the Conflict column", "Formula to detect duplication of a parameter (HID) within this spreadsh
14	If the Parameter Type is 'category', the value encoding should match the encoding of the KEY","If the Parameter Type is ""category"", this
	""Code Set"" is the general term for an Enumeration
18	Remember to have the fill value as a category", From UDURIIS vocabulary, "A value used to represent missing or undefined data. Please ensure '
20	The a manision is not known leave it black (it will still use the default). If the default is to be used (currently provision of 5 decima'
	at a precision is not known, take at thank (it will statuse the default). It has been the default is to be the def
	DOCING AND
	DOC: Vocabularyhttp://cf-pcmdi.llnl.gov/documents/cf-standard-names/standard-name-table/20/cf-standard-name-table.html,
24	DOC: Required,no,yes,yes,',',yes,,yes,yes if ParameterType == category,yes,yes,yes,yes,,not yet,not yet,,no,no,no,no,,,,no,,,
	DOC:CI_Attribute_Name,,Parameter.name,[X],[X],[X],Parameter.parameter_type,,Parameter.value_encoding,[into code_report],Parameter.units,Parameter.value_encoding,[into code_report],Parameter.units,Parameter.value_encoding,[into code_report],Parameter.value_encoding,[into code_report],Pa
26	BASE,,conductivity,PD1,conductivity_quantity_float32_S_m_1,0,quantity,,float32,,S m-1,-9999999,Seawater Conductivity,6,,,,,CONDWAT,sea_water
	"BASE, VELPT_D",, pressure, PD2, pressure_quantity_float32_dbar,0, quantity,, float32,, dbar,-9999999, Seawater Pressure, 3,,,,, PRESWAT, sea_water_pri
28	BASE,,salinity,PD3,salinity_quantity_float32_1,0,quantity,,float32,,1,-9999999,Practical Salinity,3,,,,,PRACSAL,sea_water_practical_salinit;
	BASE,,density,PDS,density_quantity_float32_kg_m_3,0,quantity,,float32,kg m-3,-9999999,Seawater Density,3,,,,DENSITY,sea_water_density,DEN:
	BADE, temp.PDD.temp_quantity_rloats/_deg_c.usquantity,rloats/_deg_c.y8999999.Seawater Temperature, 4,,,,,EHDNAT,sea_water_temperature,TEHD BADE, temp.PDD.temp_quantity_rloats/_deg_c.usquantity,rloats/,deg_c.y8999999.Seawater Temperature, 4,,,,,EHDNAT,sea_water_temperature,TEHD BADE temp.PDD.temp_quantity_rloats/_deg_c.usquantity.rloats/,deg_c.y8999999.Seawater Temperature, 4,,,,, EADE temperature, 5,, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
	once, time, rev, time_quencity_lowcod_seconds_ince_iveg_u_u,b, quentity, tractors, seconds since iveg-u-u1, 9999999, Time, UCT,,,,,,time Base lat DBS lat quencity_floats2 despendements floats12 despendements.0000000 latitude [ISE] little
	BASE, Ion, PD9. Ion cuantity float2 derree east.0.cuantity, float2, derree east.999999. Longitude. FALSE. Ionsitude
34	BASE, port timestamp.PD10.port timestamm quantity float64 seconds since 1900 01.01,0,quantity, float64, seconds since 1900.01.01,0,quantity, float64.
	BASE,,driver_timestamp,PD11,driver_timestamp_quantity_float64_seconds_since_1900_01_01,0,quantity,,float64,,seconds since 1900-01-01,-99999
	BASE,,internal_timestamp,PD12,internal_timestamp_quantity_float64_seconds_since_1900_01_01,0,quantity,,float64,,seconds_since_1900-01-01,-9
	VOID,,counts,PD14,counts_quantity_uint64_counts,0,quantity,,uint64,,counts,0,,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
38	"BASE,PARAD_A",PARAD,checksum,PD15,checksum_quantity_int32_1,0,quantity,,int32,,1,-9999999,Checksum,0,,,,,,,Checksum,,,,,,,
39	BASE,,preferred_timestamp,PD16,preferred_timestamp_quantity_string_1,0,quantity,,string,,1,empty,Preferred Timestamp,,FALSE,,,,,,,Timestam
40	VOID,,quality_flag,PO17,quality_flag_array_,0,array<>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	VUID, viz timestamp, PUIB, viz timestamp_quantity_float64_seconds_since_1900_01_01,0,quantity,,float64,,seconds since 1900-01-01,-9999999,"Ti
42	Buss_viz_product_type_vizyviz_product_type_array_bjarrayO,
40	Desc, jampg out ji vev jampg out je v v je v v v v v v v v v v v v v v v
45	BASE, content type PD22 content type array .0.array
46	BASE, google_dt_components,PD23,google_dt_components_record_0,record<>,,,,,,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
47	BASE,,mpl_graph,PD24,mpl_graph_record_,0,record<>,,,,,,0,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
48	VOID,,dummy,PD25,dummy_quantity_int64_,0,quantity,,int64,,,0,,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
49	VOID,,raw,PD26,raw_array_quantity_opaque_1,0,array <quantity>,,opaque,,1,,Raw Data,0,,,,,,,,"Raw, unformatted data directly from instrument</quantity>
50	<pre>VOID,,input_voltage,PD27,input_voltage_quantity_float64_volts,0,quantity,,float64,,volts,-1,Input Voltage,,,,,,,,,,,,,,,,,,</pre>
	"BASE,PARAD_A",PARAD,elapsed_time,PD28,elapsed_time_quantity_float64_s,0,quantity,,float64,,s,-1,Time Since Reset,,,,,,,,,,,,,,,,,
	BASE,,pressure_temp,PD29,pressure_temp_quantity_float32_deg_C,0,quantity,,float32,,deg_C,-9999,Pressure Sensor Internal Temperature,,,,,,,,

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2 Sea																
	ASSET_UID	LEGACY_ASSET_UID	TYPE	Mobile	DESCRIPTION OF EQUIPMENT											
2	A00023	A00023	Sensor	0	CTDMO SERIES Q (37IM)											
з	A00025.1	A00025.1	Sensor	0	WFP COASTAL REFURBISHED Electronics #1											
.4	A00048	A00048	Sensor	0	VELPT SERIES B (AQUADOPP 3000M											
	A00049	A00049	Sensor	0	VELPT SERIES B (AQUADOPP 3000M											
6	A00050	A00050	Sensor	0	PCO2A SERIES A (PCO2/ATM-50A)											
	A00051	A00051	Sensor	0	PRESF SERIES B (26PLUS)											
8	CGINS-PRESFA-01328	A00052														
9	A00054	A00054	Sensor	0	CTDBP SERIES C (C-16PLUSV2)											
10	A00055	A00055	Sensor	0	ADCP SERIES M (WHS600-500)											
	A00056 A00056 Sensor 0				ADCP SERIES A (WH600-500)											
12	A00057	A00057														
13	A00058	A00058														
14	A00059	A00059	Sensor	0	VEL3D SERIES C (VECTOR)											
	A00060	A00060	Sensor	0	VEL3D SERIES C (VECTOR)											
16	A00061	A00061	Sensor	0	VEL3D SERIES D (VECTOR W/PROLOG)											
	A00062	A00062	Sensor	0	PCO2W SERIES B (SAMI-CO2)											
18	A00063	A00063	Sensor	0	PCO2W SERIES B (SAMI-CO2)											
19	A00064	A00064	Sensor	0	ADCP SERIES I (WHLM75-1500)											
20	A00065	A00065	Sensor	0	NUTNR SERIES B (ISUS)											
	A00066	A00066	Sensor	0	NUTNR SERIES B (ISUS)											
	A00067	A00067														
	A00068	A00068	Sensor	0	ADCP SERIES L (WHLS75-1500-I)											
24	A00069	00069 A00069 Sensor 0 ADCP SERIES L (WHLS75-1500-														
	A00070	A00070	Sensor	0	ADCP SERIES L (WHLS75-1500-I)											
26	A00071	A00071	Sensor	0	ADCP SERIES F (WHS150-1500)											
	A00072	A00072	Sensor	0	ADCP SERIES F (WHS150-1500)											
28	A00073	A00073	Sensor	0	PCO2W SERIES B (SAMI-CO2)											
29	CGINS-PCO2WB-00053	A00074	Sensor	0	PCO2W SERIES B (SAMI-CO2)											

Bulk Load (Asset Management)



Preload

<u>(streams,</u>

units, etc.)

Database

parameters,



OOI Data Sheets (Calibration, Ingestion, Deployment)

Calibration Sheet

oi-	integration / asset-manag	jement	0	Watch - 10 🖈 Star	2	Fork	8
Co	de ① Issues 0	equests o 🔲 Projects o 🚍	Wiki 🧄 Pulse 🔢 Graphs	s 🔅 Settings			
ich	master - asset-managemen	nt / calibration / CTDBPD / A0008	3_20141214.csv		Find file	Сору	path
pe	tercable Archive existing data, gene	rate new CSV, added tooling			ca91ed	is on S	iep 6
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	16P71174-7209	CC_a0	0.001246218				
	16P71174-7209	CC_a1	0.0002767838				
4	16P71174-7209	CC_a2	-1.298569e-06				
	16P71174-7209	CC_a3	1.889486e-07				
6	16P71174-7209	CC_cpcor	-9.57e-08				
	16P71174-7209	CC_ctcor	3.25e-06				
8	16P71174-7209	CC_g	-0.9535724				
	16P71174-7209	CC_h	0.1336248				
0	16P71174-7209	CC_i	-0.0003783545				
	16P71174-7209	CC_j	4.512857e-05				
	16P71174-7209	CC_pa0	0.1201447				
	16P71174-7209	CC_pa1	0.001540765				
4	16P71174-7209	CC_pa2	5.361054e-12				
5	16P71174-7209	CC_ptca0	524771.3				
6	16P71174-7209	CC_ptca1	7.702243				
	16P71174-7209	CC_ptca2	-0.1943513				
8	16P71174-7209	CC_ptcb0	25.106				
	16P71174-7209	CC_ptcb1	-0.0009999999				
0	16P71174-7209	CC_ptcb2	0				
	16P71174-7209	CC_ptempa0	-60.5807				
	16P71174-7209	CC_ptempa1	52.93258				
	16P71174-7209	CC_ptempa2	-0.3302614				

Ingestion Sheet

ode 🕕 Issues 🕡 👘 Pu	ll requests o 🔲 Projects o 💮 Wiki 🔶 Pulse 📊 Graphs	Settings	
ingestion-csvs	/ CE04OSSM / CE04OSSM_D00003_ingest.csv	Find file	Copy path
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uframe_route	filename_mask	reference_designator	data_sour
Ingest.mopak-o-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl11/mopak/*.mopak.log	CE04OSSM-SBD11-01-MOPAK0000	telemetere
Ingest.hyd-o-dcl_telemetered	/omc_data/whol/OMC/CE04OSSM/D00003/cg_data/dcl11/hyd1/".hyd*.log	CE04OSSM-SBD11-02-HYDGN0000	telemetere
ingest.velpt-ab-dcl_telemetered	/omc_data/whol/OMC/CE04OSSM/D00003/cg_data/dcl11/velpt1/*.velpt*.log	CE04OSSM-S8D11-04-VELPTA000	telemetere
ingest.metbk-a-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl11/metbk/*.metbk.log	CE04OSSM-S8D11-06-METBKA000	telemetere
Ingest.hyd-o-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dtl12/hyd2/*.hyd*.log	CE04OSSM-SBD12+03+HYDGN0000	telemetere
Ingest.pco2a-a-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl12/pco2a/*.pco2a.log	CE040SSM-SBD12-04-PC02AA000	telemetere
Ingest.wavss-a-dcl-full_telemetere	d /omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl12/wavss/".wavss.log	CE04OSSM-SBD12-05-WAVSSA000	telemetere
¢			
Ingest.adcpt-acfgm-dcl-pd0_telen	etered /omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl26/adcpt/*.adcpt.log	CE04OSSM-RID26-01-ADCPTC000	telemetere
Ingest.velpt-ab-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl26/velpt2/*.velpt*.log	CE040SSM-RID26-04-VELPTA000	telemetere
Ingest.phsen-abcdef-dcl_telemete	red /omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl26/phser/*.phsen.log	CE04OSSM-RID26-06-PHSENDD00	telemetere
# Ingest.nutnr-b-dcl-full_telemete	red /omc_data/whoi/DMC/CE04OSSM/D00003/cg_data/dcl26/nutnr/*.nutnr.log	CE01OSSM-RID26-07-NUTNR8000	telemetere
Ingest.spkir-abj-dcl_telemetered	/omc_data/whoi/DMC/CE040SSM/D00003/cg_data/dcl26/spkir/*.spkir.log	CE04OSSM-RID26-08-SPKIRB000	telemetere
*			
Ingest.optaa-dj-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl27/optaa/*.optaa.log	CE04OSSM-RID27-01-OPTAAD000	telemetere
Ingest.flort-dj-dcl_telemetered	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl27/flort/*.flort.log	CE04OSSM-RID27-02-FLORTD000	telemetere
Ingest.ctdbp-cdef-dcl_telemeteres	/omc_data/whoi/OMC/CE04OSSM/D00003/cg_data/dcl27/ctdbp/%.ctdbp.log	CE04OSSM-RID27-03-CTD8PC000	telemetere
Ingest.dosta-abcdjm-dcl_telemete	red /omc_data/whol/DMC/CE04OSSM/D00003/cg_data/dcl27/dosta/*.dosta.log	CE04OSSM-RID27-04-DOSTAD000	telemetere
*			
Ingest.cg-cpm-eng-cpm_telemete	red /omc_data/whoi/DMC/CE04OSSM/D00003/irid2shore/cpm_status*.txt	CE04OSSM-SBC11-00-CPMENG000	telemetere
Ingest.cg-cpm-eng-cpm_telemete	red /omc_data/whoi/DMC/CE04OSSM/D00003/cg_data/cpm2/syslog/cpm_status*.tx	CE04CISSM-RIC21-0D-CPMENG000	telemetere
Ingest.cg-dcl-eng-dcl_telemetered	/omc_data/whoi/DMC/CE04OSSM/D00003/cg_data/dcl11/syslog/*.syslog.log	CE04OSSM-SBD11-00-DCLENG000	telemetere
Ingest.cg-dcl-eng-dcl_telemetered	/omc_data/whoi/DMC/CE04OSSM/D00003/cg_data/dcl12/syslog/*.syslog.log	CE04OSSM-SBD12-00-DCLENG000	telemetere
Ingest.cg-dcl-eng-dcl_telemetered	/omc_data/whoi/DMC/CE04OSSM/D00003/cg_data/dcl26/syslog/*.syslog.log	CE04OSSM-RID26-00-DCLENG000	telemetere
	toms data tuboj (PART (CD4/05734) (P00003 See data idd 127 Jan Jan // outline Jan	CEMOSSM-RID27-00-DCI ENG000	telemetere

Deployment Sheet

loy deplo	yedBy CUID_Recover	recoveredBy Reference Designator	deploymentNumber version	Number startDateTime stop	DateTime mooring.uid	node.uid sensor.uid	lat	lon deployment_d	epth water_e	lepth notes
		CE04OSSM-RIC21-00-CPMENG000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	OL000380	44.3667	-124.945	7	nominal_depti
		CE04OSSM-RID26-00-DCLENG000	1	1 2015-04-07T23:06:00 2010	-05-09T00:00:00 N00212	OL000383	44.3657	-124.945	7	nominal_depti
		CE04OSSM-RID26-01-ADCPTC000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	A00244	44.3667	-124.945	7	nominal_depti
		CE04OSSM-RID26-04-VELPTA000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	CGINS-VELPTA-11787	44.3667	-124.945	7	nominal_depth
		CE04O55M-RID26-06-PHSEND000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	CGINS-PH5END-00124	44.3657	-124.945	7	nominal_depti
		CE04OSSM-RID26-07-NUTNRB000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	A00125	44.3667	-124.945	7	nominal depti
		CE04OSSM-RID26-08-SPKIRB000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	CGINS-SPKIRB-00249	44.3657	-124.945	7	nominal_depti
		CE04OSSM-RID27-00-DCLENG000	1	1 2015-04-07723:06:00 2016	-05-09T00:00:00 N00212	OL000384	44,3667	-124,945	7	nominal depti
		CE04OSSM-RID27-01-OPTAAD000	1	1 2015-04-07723-06-00 2016	-05-09T00-00-00 N00212	A00907	44,3667	-124.945	7	nominal depti
		CEG4O55M-RID27-02-FLORTD000	1	1 2015-04-07723:06:00 2016	-05-09T00:00:00 N00212	CGINS-FLORTD-01151	44.3657	-124.945	7	nominal depti
		CE04OSSM-RID27-03-CTDBPC000	1	1 2015-04-07723-06-00 2014	-05-09T00-00-00 N00212	401033	44 3667	124 945	7	nominal denti
		CE04055M-RID27-04-D05TAD000	1	1 2015-04-07723-06-00 2010	-05-09T00:00:00 N00212	CGINS-DOSTAD-00291	44 3667	-124 945	7	nominal denti
		CEOLOSSM-SEC11-00-CEMENG000	î	1 2015-04-07723-06-00 2014	-05-09T00-00-00 N00212	01000379	44 2667	-124 945	0	nominal denti
		CEOLOSSM-SBD11-00-DCI ENGODO	1	1 2015-04-07722-06-00 2014	-05-09T00-00-00 N00212	01000281	44.2667	124.945	0	nominal_dept
		CE04055M-58011-00-0CLENG000	1	1 2015 04 07123.06.00 2010	AE 00700-00-00 N00212	01000331	44.5007	124.943	0	nominal_dept
		CE04033N-38D11-01-WOPA00000		1 2015-04-07123-06-00 2010	05-05100.00.00 100212	01000370	44.3007	124.943	0	nominal_dept
		CE04055M-58011-02-MTDGN0000	1	1 2015-04-07123:06:00 2010	-05-09100.00.00 N00212	0000377	44.3007	-124.945		nominal_deptr
		CE04035MI-SBD11-04-VELPTA000	1	1 2013-04-07123:06:00 2010	-05-09100:00:00 N00212	C6IN5-VELPTA-11748	44.3007	-124.943	1	nominal_deptr
		CE04OSSM-SBD11-06-METBRA000	1	1 2015-04-07123:06:00 2016	-05-09100:00:00 N00212	N00735	44.3667	-124.945	-3	nominal_dept
		CE04OSSM-SBD12-00-DCLENG000	1	1 2015-04-07123:06:00 2016	-05-09T00:00:00 N00212	OL000382	44.3667	-124.945	0	nominal_dept
		CE04055M-58D12-03-HYDGN0000	1	1 2015-04-07T23:06:00 2010	I-05-09T00:00:00 N00212	OL000378	44.3657	-124.945	0	nominal_dept
		CE04OSSM-SBD12-04-PCO2AA000	1	1 2015-04-07T23:06:00 2016	-05-09T00:00:00 N00212	A01048	44.3667	-124.945	0	nominal_depti
		CE04OSSM-SBD12-05-WAV5SA000	1	1 2015-04-07T23:06:00 2010	-05-09T00:00:00 N00212	CGINS-WAVSSA-05301	44.3667	-124.945	0	nominal_depti
		CE04OSSM-RIC21-00-CPMENG000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	OL000394	44.36485	-124.943	7	nominal_depti
		CE04OSSM-RID26-00-DCLENG000	2	1 2016-05-16T04:48:00 2010	-10-01T15:21:00 OL000385	OL000396	44.36485	-124.943	7	nominal_depti
		CE04OSSM-RID26-01-ADCPTC000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	A01247	44.36485	-124.943	7	nominal_dept
		CE04OSSM-RID26-04-VELPTA000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	A00236	44.36485	-124.943	7	nominal_dept
		CE04OSSM-RID26-06-PHSEND000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	A00550	44.36485	-124.943	7	nominal_dept
		CE04055M-RID26-07-NUTNRB0DD	2	1 2015-05-16TD4:48:00 2016	-10-01T15:21:00 OL000385	A00086	44.36485	-124.943	7	nominal_dept
		CE04OSSM-RID26-08-SPKIRB000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	A01676	44.36485	-124.943	7	nominal dept
		CE04OSSM-RID27-00-DCLENG000	2	1 2016-05-16T04:48:00 2016	-10-01T15:21:00 OL000385	OL000395	44.36485	-124.943	7	nominal_dept
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		CE04OSSM-RID26-01-ADCPTC000	3	1 2016-10-01T00:44:00	CGMCE-040SSM-0000	3 CGINS-ADCPTC-22114	44.38108	-124.956		
		CE04OSSM-RID26-04-VELPTA000	3	1 2015-10-01T00:44:00	CGMCE-04DSSM-0000	3 CGINS-VELPTA-11787	44.38108	-124.955		
		CE04OSSM-RID26-06-PHSEND000	3	1 2016-10-01T00:44:00	CGMCE-040SSM-0000	3 CGINS-PHSEND-00118	44.38108	-124.956		
		CE04OSSM-RID26-08-SPKIRB000	3	1 2016-10-01T00:44:00	CGMCE-040SSM-0000	3 CGINS-SPKIRB-00249	44.38108	-124.956		
		CE04OSSM-RID27-01-OPTAAD000	3	1 2016-10-01T00:44:00	CGMCE-040SSM-0000	3 CGINS-OPTAAD-00258	44.38108	-124.956		
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1 per instrument

0-2 per platform

1 per deployment

May 2017 OOIFB Meeting



Data Types

- Telemetered Data
 - Data received through a transmission medium over distance (e.g. surface buoy to satellite, glider to satellite, acoustic modem); may be decimated
- Recovered Data
 - \circ Data downloaded directly from a recovered instrument or data logger after the instrument has been recovered.
- Streamed Data
 - Data received via transmission over electro-optical cable. Streaming data are provided at full temporal resolution and near-real time.
- Shipboard Data
 - Shipboard data and water samples collected during OOI expeditions.
- Metadata
 - Info about the data record (e.g., time & location of collection, unique source & record description identifier, instrument serial #, etc.). OOI metadata follows the CF1.6 standard, with additional types and fields specific to OOI as necessary.



OOI Data Product Levels

- Raw data: The datasets as they are received from the instrument
 - o May contain multiple L0, L1, or L2 parameters, data for multiple sensors, and be in native sensor units
 - Always persisted and archived by the OOI
 - o Example: format 0 binary file from an SBE-37IM on a Global Flanking Mooring.
- Level 0 (L0): Unprocessed, parsed data parameter that is in instrument/sensor units and resolution
 - Sensor by sensor (unpacked and/or de-interleaved) and available in OOI supported formats (e.g., NetCDF)
 - $\circ~$ Always persisted and archived by the OOI
 - Example: SBE-37IM Temperature portion of the hex string
- Level 1 (L1): Data parameter that has been calibrated and is in scientific units
 - QC may be applied at this level, utilizing simple automated techniques or human inspection
 - Actions to transform Level 0 to Level 1 data are captured and presented in the metadata of the Level 1 data
 - Example: SBE-37IM Temperature converted from hex to binary and scaled to produce degrees C
- Level 2 (L2): Derived data parameter created via an algorithm that draws on multiple L1 data products
 - Products may come from the same or from separate instruments
 - $\circ~$ Data from all relevant instruments will be provided during download
 - <u>Example</u>: SBE-37IM Density and Salinity



OOI: Web Portals







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