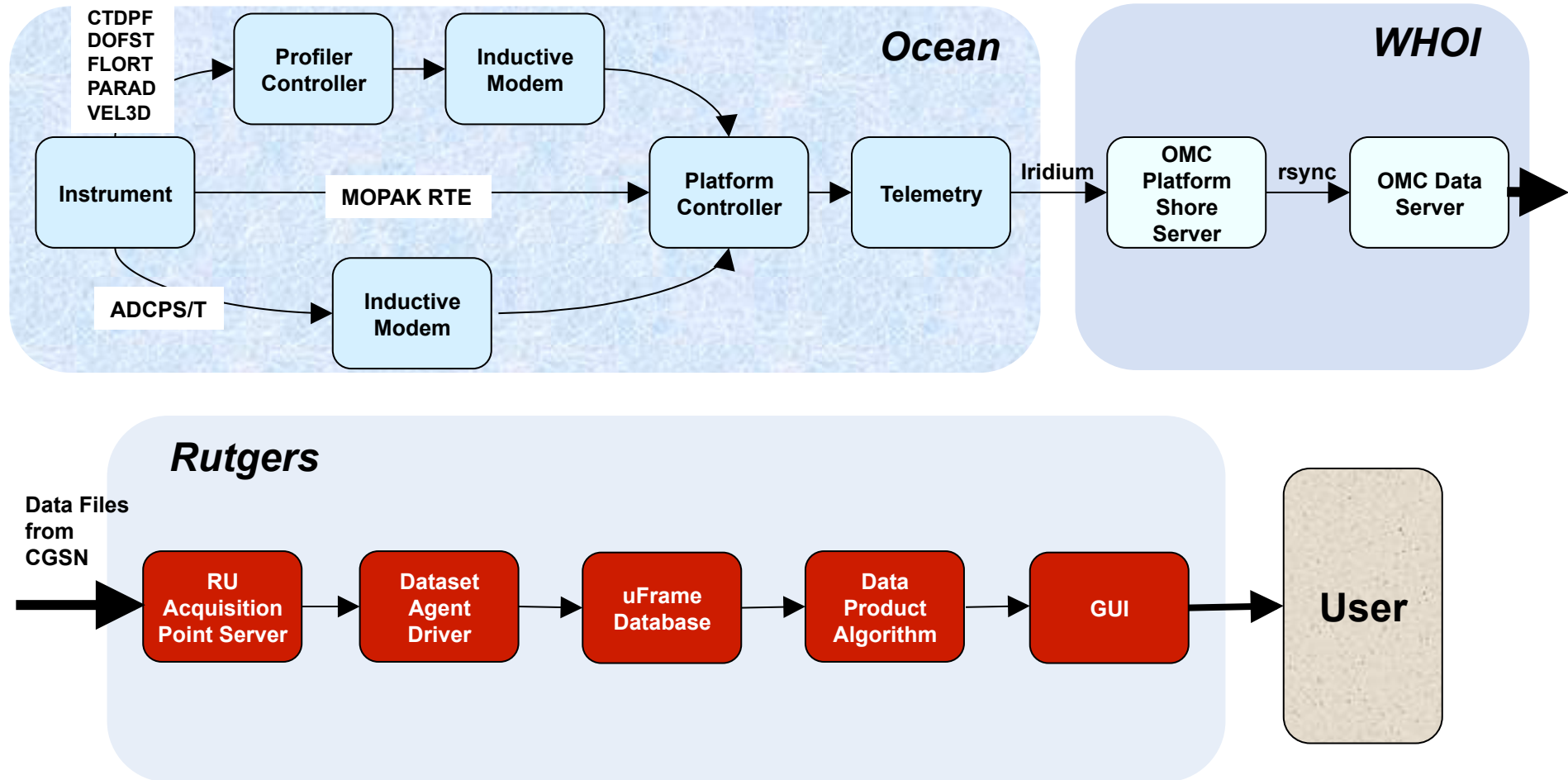


Overview

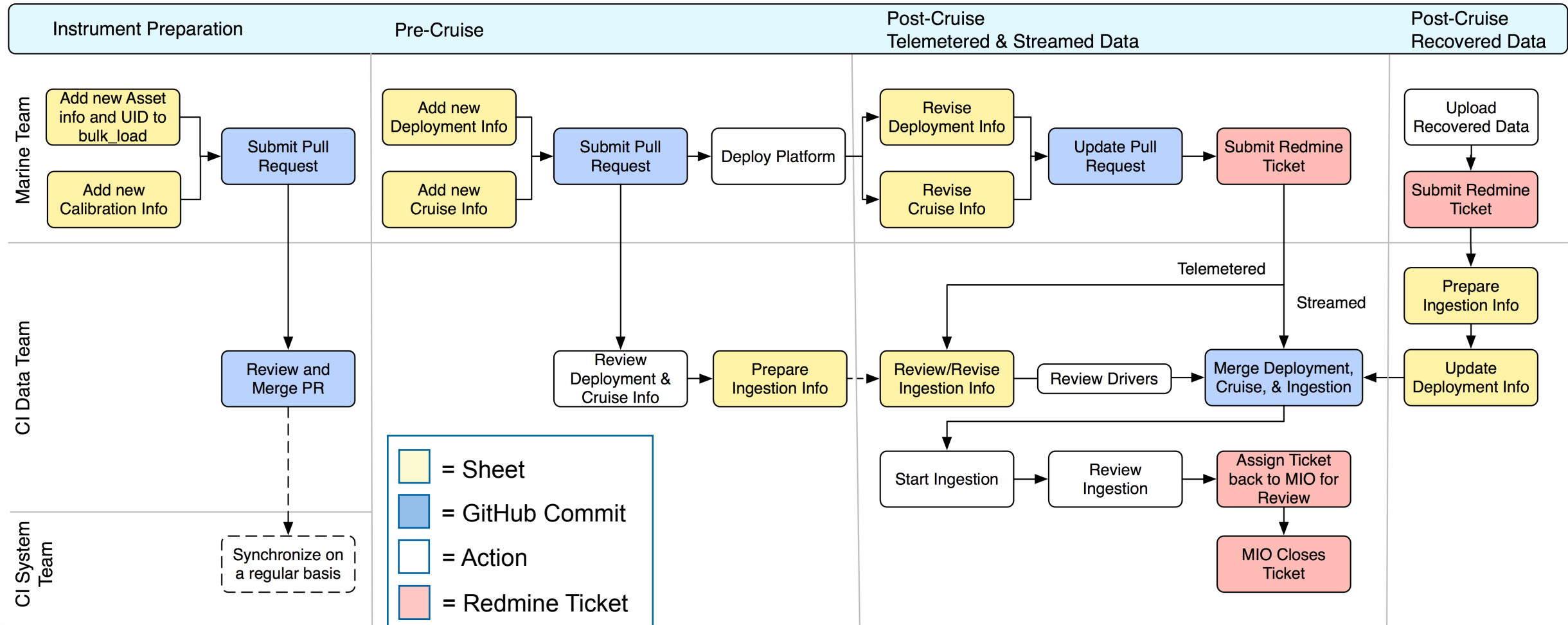
1. Team Structure & Responsibilities
2. Data Flow & Products
3. Data Review
4. Communications
5. Improvements
6. Conclusions



Data Flow Example: Pioneer Profiler



Current Data Processing Flow



OOI Data Sheets (Preload, Bulk Load)

Preload Database (streams, parameters, units, etc.)

Branch master • preload-database / csv / ParameterDefs.csv

fredrichkuth

Changed units from meters to m and seconds to s

4 contributors



45w39s 6 days ago

3885 lines (3874 sloc) 913 KB

Raw

Blame

History





We can't make this file *beautiful* and searchable because it's too large.

```
1  scenario_confidence_name,jid,hid,conflict,parameter_type,dimensions,value_encoding,code_set,unit_of_measure,fill_value,display_name,precision,
2  DOC:Definition,,System internal name of the parameter.
3
4  Parameter are allowed to have the same name, as long as the attributes are different. The HID and ID columns determine uniqueness.,"Para
5
6  This is the "global" identifier for a parameter. It should be UNIQUE and STATIC among all parameters as it will be used to identify ty
7
8  CALCULATED from the following attributes of a parameter: Name, Parameter Type, Value Encoding, and Unit of Measure
9
10 Intended for rapid comparison of parameters by a human. NOT utilized programmatically for comparison. May be used to calculate the ID.
11
12 Must be unique - if not, will be indicated in the Conflict column,"Formula to detect duplication of a parameter (HID) within this spread
13
14 If the Parameter Type is "category", the value encoding should match the encoding of the KEY","If the Parameter Type is "category", this
15
16 "Code Set" is the general term for an Enumeration
17
18 Remember to have the fill value as a category,"From UDUNITs vocabulary,"A value used to represent missing or undefined data. Please ensure
19
20 If a precision is not known, leave it blank (it will still use the default). If the default is to be used (currently precision of 5 dec
21 DOC:HARDWARE,,2copyload loads the BASE scenario from CSV files located in ion-definitions/res/preload/r2_loc and NOT from this document or t
22 DOC:Namespace,,ION::Name,,internal-only,,internal-only,ION::ParameterType,,ION::Value Encoding,ION::Code Set,ION::Unit of Measure,ION::Fill
23 DOC:Vocabulary,,,"http://pcmdl.llnl.gov/documents/cf-standard-names/standard-name-table/28/cf-standard-name-table.html",
24 DOC:Required,no,yes,yes,"","","yes,yes,yes If Parameter Type == category,yes,yes,yes,"","not,yet,not,yet,"","no,no,no,no,"",
25 DOC:CI_Acquire,,Name,,Parameter,,Name,[X],[X],[X] Parameter-parameter_type,,Parameter-value_encoding,[into_code_report]Parameter-units,Pa
26 BASE,,conductivity,P01,conductivity_quantity,float32_s_m_1,quantity,float32,S m-1,9999999,Seawater Conductivity,6,,,,CONDAT,sea_wat_e
27 "BASE,VEL,P,pressure,P02,pressure_quantity,float32_bar,0,quantity,float32,bar,-9999999,Seawater Pressure,,,,PRESMAT,sea_wat_e
28 BASE,salinity,P03,salinity_quantity,float32_1,0,quantity,float32,1,9999999,Practical Salinity,3,,,,PRACSA,sea_wat_e
29 BASE,density,P05,density_quantity,float32_kg_m_3,quantity,float32,kg m-3,9999999,Seawater Density,,,,DENSITY,sea_wat_e
30 BASE,temp,P06,temp_quantity,float32_deg_c,0,quantity,float32,deg_C,-9999999,Seawater Temperature,4,,,,TEMPAL,sea_wat_e
31 BASE,time,P07,time_quantity,float32_degrees_north,0,quantity,float32,degrees_north,-9999999,latitude,FALSE,,,,latitude,,,,time
32 BASE,lat,P08,lat_quantity,float32_degrees_east,0,quantity,float32,degrees_east,-9999999,longitude,FALSE,,,,longitude,,,,time
33 BASE,lon,P09,lon_quantity,float32_degrees_east,0,quantity,float32,degrees_east,-9999999,longitude,FALSE,,,,longitude,,,,time
34 BASE,prof_time_stamp,P010,prof_time_stamp_quantity,float64_seconds_since_1900_01_01,quantity,float64,seconds_since_1900-01-01,9999999,
35 BASE,driver_time_stamp,P011,driver_time_stamp_quantity,float64_seconds_since_1900_01_01,quantity,float64,seconds_since_1900-01-01,9999
36 BASE,internal_time_stamp,P012,internal_time_stamp_quantity,float64_seconds_since_1900_01_01,quantity,float64,seconds_since_1900-01-01,9999
37 VOID,counts,P014,counts_quantity,uint64_counts,0,quantity,uint64,counts,0,0,,,,,,,,,,,,,
38 "BASE,PASAD_A_Z,PASAD,checksum,P015,checksum_quantity,int32_1,0,quantity,int32,1,9999999,Checksum,0,,,,,Checksum,,,,,
39 BASE,preferrd_time_stamp,P016,preferrd_time_stamp_quantity,string,1,0,quantity,string,1,empty,Preferred TimeStamp,FALSE,,,,,Timesta
40 VOID,quality_flag,P017,quality_flag_array,,0,array,,,,,
41 VOID,viz_time_stamp,P018,viz_time_stamp_quantity,float64_seconds_since_1900_01_01,quantity,float64,seconds_since_1900-01-01,9999999,T
42 BASE,,viz_product_type,P019,viz_product_type_array,,0,array,,,,,
43 BASE,,image_obj,P020,image_obj_array,,0,array,,,,,Image Object,0,,,,,
44 BASE,,image_name,P021,image_name_array,,0,array,,,,,Image Name,0,,,,,
45 BASE,,content_type,P022,content_type_array,,0,array,,,,,Content Type,,,,,
46 BASE,,google_dz_components,P023,google_dz_components_record,,0,record,,,,,
47 BASE,,wp1_graph,P024,wp1_graph_record,,0,record,,,,,
48 VOID,dummy,P025,dummy_quantity,int64_0,quantity,int64,0,0,,,,,,,,,,,,,
49 VOID,,raw,P026,,raw_quantity,,none,1,0,array,,,,,,"None, unfornated data directly from instrument",
50 VOID,,input_voltage,P027,input_voltage_quantity,float64_volts,0,quantity,float64,volts,-1,Input Voltage,,,,,
51 "BASE,PASAD_A_Z,PASAD,elapsed_time,P028,elapsed_time_quantity,float64_s,0,quantity,float64,s,-1,Time Since Reset,,,,,
52 BASE,presure_temp,P029,presure_temp_quantity,float32_deg_c,0,quantity,float32,deg_C,-9999,Pressure Sensor Internal Temperature,,,"
```

Bulk Load (Asset Management)

🔍 poi-integration / asset-management /

[📁 Code](#)
[🔖 Issues 0](#)
[🔄 Pull requests 0](#)
[📁 Projects 0](#)
[📄 Wiki](#)
[⚡ Pulse](#)
[📊 Graphs](#)
[⚙️ Settings](#)

Branch: master ▾
asset-management / bulk / sensor_bulk_load-AssetRecord.csv
Find file Copy path

rajascutellatus updated asset_uid in CEO7SHM cal sheets as per redmine #11483 @cfba2f 3 days ago

3 contributors

2798 lines (2798 sloc) | 322 KB

[Raw](#)
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[History](#)

	ASSET_UID	LEGACY_ASSET_UID	TYPE	Mobile	DESCRIPTION OF EQUIPMENT
1	A00023	A00023	Sensor	0	CTDMO SERIES Q (37TM)
2	A00025.1	A00025.1	Sensor	0	WFP COASTAL REFURBISHED Electronics #1
4	A00048	A00048	Sensor	0	VELPT SERIES B (AQUADOPP 3000M
5	A00049	A00049	Sensor	0	VELPT SERIES B (AQUADOPP 3000M
6	A00050	A00050	Sensor	0	PCO2A SERIES A (PCO2(ATM-50A)
7	A00051	A00051	Sensor	0	PRESF SERIES B (26PLUS)
8	CGINS-PRESFA-01328	A00052	Sensor	0	PRESF SERIES A (26 PLUS)
9	A00054	A00054	Sensor	0	CTDBP SERIES C (C-16PLUSV2)
10	A00055	A00055	Sensor	0	ADCP SERIES M (WH-S600-500)
11	A00056	A00056	Sensor	0	ADCP SERIES A (WH600-500)
12	A00057	A00057	Sensor	0	ADCP SERIES B (WHM600-500)
14	A00058	A00058	Sensor	0	ADCP SERIES C (WHS300-500)
15	A00059	A00059	Sensor	0	VEL3D SERIES C (VECTOR)
15	A00060	A00060	Sensor	0	VEL3D SERIES C (VECTOR)
16	A00061	A00061	Sensor	0	VEL3D SERIES D (VECTOR W/PROLOG)
17	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 (JSUS)
21	A00066	A00066	Sensor	0	NUTNR SERIES B (JSUS)
22	A00067	A00067	Sensor	0	ADCP SERIES L (WHLS75-1500-I)
23	A00068	A00068	Sensor	0	ADCP SERIES L (WHLS75-1500-Q)
24	A00069	A00069	Sensor	0	ADCP SERIES L (WHLS75-1500-I)
25	A00070	A00070	Sensor	0	ADCP SERIES L (WHLS75-1500-Q)
26	A00071	A00071	Sensor	0	ADCP SERIES F (WHS150-1500)
27	A00072	A00072	Sensor	0	ADCP SERIES F (WHS150-1500)
28	A00073	A00073	Sensor	0	PCO2W SERIES F (SAMI-CO2)
29	CGINS-PCO2WB-00053	A00074	Sensor	0	PCO2W SERIES B (SAMI-CO2)

OOI Data Sheets (Calibration, Ingestion, Deployment)

Calibration Sheet

Ingestion Sheet

Deployment Sheet

ooi-integration / asset-management

Code Issues Pull requests Projects Wiki Pulse Graphs Settings

Branch: master asset-management / calibration / CTDBPD / A00083_20141214.csv Find file Copy path

petercable Archive existing data, generate new CSV, added tooling ca91ed8 on Sep 6

1 contributor

24 lines (23 sloc) 759 Bytes Raw Blame History

Search this file...

serial	name	value	notes
1			
2	16P71174-7209	CC_a0	0.001246218
3	16P71174-7209	CC_a1	0.002767838
4	16P71174-7209	CC_a2	-1.29859e-06
5	16P71174-7209	CC_a3	1.889486e-07
6	16P71174-7209	CC_cpccor	-9.57e-08
7	16P71174-7209	CC_ctccor	3.25e-05
8	16P71174-7209	CC_g	-0.9535724
9	16P71174-7209	CC_h	0.1336248
10	16P71174-7209	CC_j	-0.000378345
11	16P71174-7209	CC_k	4.512857e-05
12	16P71174-7209	CC_pa0	0.1201447
13	16P71174-7209	CC_pa1	0.001540765
14	16P71174-7209	CC_pa2	5.361054e-12
15	16P71174-7209	CC_ptcc0	524771.3
16	16P71174-7209	CC_ptcc1	7.702243
17	16P71174-7209	CC_ptcc2	-0.1943513
18	16P71174-7209	CC_ptcc3	25.106
19	16P71174-7209	CC_ptcc4	-0.000999999
20	16P71174-7209	CC_ptcc5	0
21	16P71174-7209	CC_ptemp0	-60.5807
22	16P71174-7209	CC_ptemp1	52.93258
23	16P71174-7209	CC_ptemp2	-0.3302614

1 per instrument

ooi-integration / ingestion csvs

Code Issues Pull requests Projects Wiki Pulse Graphs Settings

Branch: master ingestion-csvs / CE04O5SM / CE04O5SM.D00003_ingest.csv Find file Copy path

najacutellana fixed commented empty rows for C3 deployments #464 on Oct 13

1 contributor

28 lines (27 sloc) 3.16 KB Raw Blame History

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2	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d011/mopak/mopak.log	CE04O5SM-SB011-01-MOPAK0000	telemetered
3	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d012/hydr/hydr.log	CE04O5SM-SB011-02-HYDR0000	telemetered
4	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d013/velpt/velpt.log	CE04O5SM-SB011-03-VELPT0000	telemetered
5	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d014/metba/metba.log	CE04O5SM-SB011-04-METBA0000	telemetered
6	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d015/pos2a/pos2a.log	CE04O5SM-SB011-05-POS2A0000	telemetered
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23	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d032/pos2r/pos2r.log	CE04O5SM-SB011-22-POS2R0000	telemetered
24	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d033/pos2s/pos2s.log	CE04O5SM-SB011-23-POS2S0000	telemetered
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26	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d035/pos2u/pos2u.log	CE04O5SM-SB011-25-POS2U0000	telemetered
27	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d036/pos2v/pos2v.log	CE04O5SM-SB011-26-POS2V0000	telemetered
28	/omc_data/whoi/OMC/CE04O5SM/D00003/rg_data/d037/pos2w/pos2w.log	CE04O5SM-SB011-27-POS2W0000	telemetered

0-2 per platform

CUID	Deployed	DeployedBy	CUID_Restore	RestoredBy	Reference	Designator	deploymentNumber	versionNumber	startDateTime	stopDateTime	mooring	uid	node	uid	sensor	uid	lat	lon	deployment	depth	water	depth	notes
DC15030					CE04O5SM-R121-00-CPMENG000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00380		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-00-DCLENG000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00383		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-01-ADCPTR000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00248		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-04-VELPTA000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-VELPTA-11787		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-06-PHSEND000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-PHEND-00214		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-07-NUTNR000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00125		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R126-08-SPKR000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-SPKR-00249		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R127-00-DCLENG000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00384		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R127-01-FLORTD000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00097		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R127-03-CTDBPC000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-FLORTD-01151		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R127-04-DOSTAD000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00193		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-R127-05-FLORTD000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-DOSTAD-00291		44.3667	-124.945	7	nominal	depth		
DC15030					CE04O5SM-SB011-00-CPMENG000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00379		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-00-DCLENG000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00382		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-01-MOPAK0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00376		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-02-HYDR0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00377		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-04-VELPTA000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-VELPTA-11748		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-06-METBA0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00175		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-08-POS2A0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00382		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-10-POS2B0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				OL00378		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-12-POS2C0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				A00248		44.3667	-124.945	8	nominal	depth		
DC15030					CE04O5SM-SB011-14-POS2D0000		1	1	2015-04-07T23:06:00	2016-05-09T00:00:00	N00212				CGNS-WATSSA-05301		44.3667	-124.945	8	nominal	depth		
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TH-342					CE04O5SM-R126-00-DCLENG000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00396		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R126-01-ADCPTR000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00147		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R126-04-VELPTA000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00218		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R126-06-PHSEND000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00060		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R126-07-NUTNR000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00088		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R126-08-SPKR000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00176		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R127-00-DCLENG000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00395		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R127-01-FLORTD000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00182		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R127-03-CTDBPC000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00281		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R127-04-DOSTAD000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00030		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-R127-05-FLORTD000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00391		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-00-CPMENG000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00392		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-01-MOPAK0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00388		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-02-HYDR0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00386		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-04-VELPTA000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				A00222		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-06-METBA0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00388		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-08-POS2A0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00393		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-10-POS2B0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00387		44.3648	-124.943	7	nominal	depth		
TH-342					CE04O5SM-SB011-12-POS2C0000		2	1	2016-05-18T04:48:00	2016-10-17T15:21:00	OL00085				OL00390		44.3648	-124.943	7	nominal	depth		
AT37-03					CE04O5SM-R126-01-ADCPTR000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-ADCPCT-22114		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R126-04-VELPTA000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-VELPTA-11787		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R126-06-PHSEND000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-PHEND-00218		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R126-08-SPKR000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-SPKTR-00248		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R127-01-FLORTD000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-FLORTD-00258		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R127-03-CTDBPC000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-FLORTD-01151		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-R127-04-DOSTAD000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-DOSTAD-00482		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-01-MOPAK0000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-MOPAK-11838		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-02-HYDR0000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-HYDR0N-49813		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-04-VELPTA000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-VELPTA-12717		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-06-METBA0000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-METBA-00018		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-08-HYDR0000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-HYDR0N-49550		44.3810E	-124.956	7	nominal	depth		
AT37-03					CE04O5SM-SB011-10-POS2A0000		3	1	2016-10-01T07:44:00		CGMC-0403SM-00003				CGNS-POS2A-15256		44.3810E	-124.956	7	nominal	depth		

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**
 - 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
 - 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
 - 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)
 - 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
 - Data from all relevant instruments will be provided during download
 - Example: SBE-37IM Density and Salinity

Main

OOINet

Education

Forum

ERDDAP

Cruises