

CTD QC Report: PRIAs 2014

The file used in this QC routine is: ESD_NCRMP_CTD_2014_PRIA.csv

QC run at: 2021-03-03 08:22:27 HST

Number of rows in data file: 277

Number of casts in data file: 16

Check the location and time ranges

	Min	Max
LATITUDE	19.27069	19.32551
LONGITUDE	166.5888	166.6618
UTCDATETIME	2014-03-16 01:18:00	2014-03-19 21:47:00

Check the cruises, dates, and number of casts associated with each island.

LOCATION	CRUISE	NO.CASTS	UTCDATETIME.range
Wake Atoll	HA1401_LegI	16	2014-03-16 01:18:00, 2014-03-19 21:47:00

Check for NULLs in all metadata fields

“No” signifies that no NULL data exist. “Yes” signifies that NULL values are present. NULL values are only ok if present in the ASSOC_OCC_SITEID field (not every cast is associated with an OCC site).

	NULLs?
SHALLOWCTDID	No
CTDCASTID	No
REGIONCODE	No
CASTYEAR	No
CRUISE	No
LOCATION	No
LATITUDE	No
LONGITUDE	No
UTCDATETIME	No
WATERSAMPLE	No
ASSOC_OCC_SITEID	Yes
ASSOC_REA_SITE	No
OFFSHORE_YN	No
SURVEY_DESIGN	No

Check for NULLs in all data fields

“No” signifies that no NULL data exist. “Yes” signifies that NULL values are present. NULL values may be present in data fields if there were bad or missing data in a cast.

	NULLs?
PRESSURE_DB	No
DEPTH_M	No
TEMP_DEGC	Yes
COND_S_PER_M	No
SALN_PSU	Yes
DENSITY_SIGMAT	Yes

[1] “The following casts are missing at least one temperature value:”

Casts missing temperature values
HA1401_LegI_WAK_SN4818_005
HA1401_LegI_WAK_SN4818_007
HA1401_LegI_WAK_SN4818_009

[1] “The following casts are missing at least one salinity value:”

Casts missing salinity values
HA1401_LegI_WAK_SN4818_005
HA1401_LegI_WAK_SN4818_007
HA1401_LegI_WAK_SN4818_009

Check for data values out of expected ranges

Make sure that the CTD data values are within a reasonable range. Parameters with “Yes” flags are outside a general expected range (but may not necessarily be incorrect).

	Min	Max	Flag
PRESSURE_DB	1.006	27.169	No
DEPTH_M	1	27	No
TEMP_DEGC	25.8339	26.3656	No
COND_S_PER_M	5.341317	5.503033	No
SALN_PSU	34.5499	35.4756	No
DENSITY_SIGMAT	22.7174	23.3671	No

Summary of casts

SHALLOWCTDID	LATITUDE	LONGITUDE	UTCDATETIME	ASSOC_OCC_SITEID	ASSOC_REA_SITE	SURVEY_DESIGN	MIN_DEPTH	MAX_DEPTH
HA1401_LegI_WAK_SN4282_001	19.27633	166.6392	2014-03-16 03:13:00	NA	WAK-430	Stratified_Random	1	15
HA1401_LegI_WAK_SN4282_002	19.30471	166.5945	2014-03-17 00:04:00	NA	WAK-412	Stratified_Random	1	15
HA1401_LegI_WAK_SN4282_003	19.31886	166.6236	2014-03-18 00:03:00	NA	WAK-369	Stratified_Random	1	13
HA1401_LegI_WAK_SN4282_004	19.28386	166.6567	2014-03-18 22:42:00	NA	WAK-429	Stratified_Random	1	15
HA1401_LegI_WAK_SN4818_002	19.28064	166.6278	2014-03-16 02:49:00	OCC-WAK-008	WAK-01	Permanent	1	16
HA1401_LegI_WAK_SN4818_003	19.27243	166.6214	2014-03-16 01:18:00	NA	WAK-2044	Random	1	24
HA1401_LegI_WAK_SN4818_004	19.29182	166.6073	2014-03-16 22:36:00	OCC-WAK-011	WAK-06	Permanent	1	16
HA1401_LegI_WAK_SN4818_005	19.31625	166.5982	2014-03-17 01:09:00	OCC-WAK-013	WAK-08	Permanent	1	11
HA1401_LegI_WAK_SN4818_006	19.31625	166.5982	2014-03-17 01:09:00	OCC-WAK-013	WAK-08	Permanent	1	17
HA1401_LegI_WAK_SN4818_007	19.32135	166.5888	2014-03-17 02:24:00	NA	WAK-2045	Random	1	27
HA1401_LegI_WAK_SN4818_008	19.31602	166.6272	2014-03-17 22:52:00	OCC-WAK-002	WAK-23	Permanent	1	14
HA1401_LegI_WAK_SN4818_009	19.32551	166.6319	2014-03-18 00:04:00	NA	WAK-2046	Random	1	27
HA1401_LegI_WAK_SN4818_010	19.30616	166.6511	2014-03-18 02:17:00	OCC-WAK-005	WAK-24	Permanent	1	12
HA1401_LegI_WAK_SN4818_011	19.30652	166.6618	2014-03-18 04:43:00	NA	WAK-2047	Random	1	27
HA1401_LegI_WAK_SN4818_012	19.27069	166.6515	2014-03-19 01:27:00	OCC-WAK-029	WAK-09	Permanent	1	14
HA1401_LegI_WAK_SN4818_013	19.31539	166.6434	2014-03-19 21:47:00	OCC-WAK-030	WAK-13	Permanent	1	14