

# CTD QC Report: PRIAs 2017

The file used in this QC routine is: ESD\_NCRMP\_CTD\_2017\_PRIA.csv

QC run at: 2021-02-26 12:18:08 HST

Number of rows in data file: 128

Number of casts in data file: 10

## Check the location and time ranges

	Min	Max
LATITUDE	-0.5544667	19.3162188
LONGITUDE	166.5954	-159.7949
UTCDATETIME	2017-04-03 00:39:00	2017-04-22 03:29:00

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

LOCATION	CRUISE	NO.CASTS	UTCDATETIME.range
Baker Island	HA1701_PRIA	1	2017-04-10 21:50:00, 2017-04-10 21:50:00
Jarvis Island	HA1701_PRIA	7	2017-04-03 00:39:00, 2017-04-05 22:23:00
Wake Atoll	HA1701_PRIA	2	2017-04-20 01:50:00, 2017-04-22 03:29:00

## 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

(continued)

	NULLs?
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	Yes
SALN_PSU	Yes
DENSITY_SIGMAT	Yes

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

Casts missing temperature values
HA1701_PRIA_JAR_SN4818_B001

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

Casts missing salinity values
HA1701_PRIA_JAR_SN3029_001
HA1701_PRIA_JAR_SN3029_001
HA1701_PRIA_JAR_SN3029_003
HA1701_PRIA_JAR_SN3029_005
HA1701_PRIA_JAR_SN3029_006
HA1701_PRIA_JAR_SN3029_006

## 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	1.021	23.09	No
DEPTH_M	1	23	No
TEMP_DEGC	25.8655	28.799	No
COND_S_PER_M	4.730032	5.885916	No
SALN_PSU	31.2484	37.5128	No
DENSITY_SIGMAT	19.0083	25.0084	Yes

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## Summary of casts

SHALLOWCTDID	LATITUDE	LONGITUDE	UTCDATETIME	MAX_DEPTH	ASSOC_OCC_SITEID	ASSOC_REA_SITE	SURVEY_DESIGN
HA1701_PRIA_BAK_SN4818_001	0.2052033	-176.4751	2017-04-10 21:50:00	17	OCC-BAK-003	BAK-14	Permanent
HA1701_PRIA_JAR_SN3029_001	-0.3677067	-159.9788	2017-04-03 00:39:00	7	OCC-JAR-003	JAR-01	Permanent
HA1701_PRIA_JAR_SN3029_003	-0.5544667	-160.0018	2017-04-03 06:35:00	7	NA	JAR-2077	End_member
HA1701_PRIA_JAR_SN3029_004	-0.3741166	-160.1922	2017-04-04 19:30:00	22	NA	JAR-2078	End_member
HA1701_PRIA_JAR_SN3029_005	-0.3823488	-160.0030	2017-04-04 23:11:00	23	OCC-JAR-008	JAR-04	Permanent
HA1701_PRIA_JAR_SN3029_006	-0.3689442	-160.0081	2017-04-05 01:53:00	7	OCC-JAR-013	JAR-11	Permanent
HA1701_PRIA_JAR_SN3029_007	-0.3644818	-159.7949	2017-04-05 07:22:00	17	NA	JAR-2079	End_member
HA1701_PRIA_JAR_SN4818_B001	-0.3727550	-159.9786	2017-04-05 22:23:00	9	NA	JAR-1686	Stratified_Random
HA1701_PRIA_WAK_SN4282_001	19.3017070	166.5954	2017-04-20 01:50:00	18	NA	WAK-679	Stratified_Random
HA1701_PRIA_WAK_SN4282_002	19.3162188	166.6383	2017-04-22 03:29:00	14	NA	WAK-714	Stratified_Random