

H2O QC Report: American Samoa 2015

The file used in this QC routine is: ESD_NCRMP_H2O_2015_AMSM.csv

QC run at: 2021-03-22 14:07:31 HST

Number of samples in data file: 123

Check the data ranges

Fields with NA values for min and max do not contain any data for this data set.

	Min	Max
LATITUDE_DEC	-14.55962	-11.04571
LONGITUDE_DEC	-171.1007	-168.1449
TIMESTAMP_UTC	2015-02-15 22:56:00	2015-03-29 23:00:00
YEAR_UTC	2015	2015
MONTH_UTC	2	3
DAY_UTC	1	29
TIME_UTC	00:09:00	23:58:00
YEARDAY_UTC	46.96	88.96
DEPTH_METER	0.9	17.1
PRESSURE_DB_CTD	1.005	17.098
PRESSURE_DB_CALCULATED	14.08834	14.08834
TEMPERATURE_ITS90_CTD	29.0640	30.7368
TEMPERATURE_ITS90_SCS	NA	NA
TEMPERATURE_ITS90_BEST	29.0640	30.7368
SALINITY_PSS78_CTD	34.1687	35.0716
SALINITY_PSS78_BOTTLE	NA	NA
SALINITY_PSS78_SCS	NA	NA
SALINITY_PSS78_BEST	34.1687	35.0716
DIC_UMOL_KG	1901.3	1994.9
TALK_UMOL_KG	2250.1	2301.7
PH_TS_CALCULATED	7.955649	8.066880
PCO2_UATM_CALCULATED	361.6195	503.0076
ARAGONITE_SAT	3.365909	4.091696

Check the missions, dates, and number of samples associated with each island.

LOCATIONCODE	CRUISE_ID	EXPOCODE	NO.SAMPLES	TIMESTAMP_UTC.range
OFU	HA1501_SAMOA	33HL20150213	17	2015-03-13 22:15:00, 2015-03-26 23:55:00
ROS	HA1501_SAMOA	33HL20150213	14	2015-03-16 19:34:00, 2015-03-19 22:15:00
SWA	HA1501_SAMOA	33HL20150213	12	2015-02-15 22:56:00, 2015-02-20 23:57:00
TAU	HA1501_SAMOA	33HL20150213	15	2015-03-15 21:27:00, 2015-03-24 22:08:00

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LOCATIONCODE	CRUISE_ID	EXPOCODE	NO.SAMPLES	TIMESTAMP_UTC.range
TUT	HA1501_SAMOA	33HL20150213	65	2015-02-17 20:59:00, 2015-03-29 23:00:00

Check for NULLs in all metadata fields

“No” signifies that no NULL data exist. “Yes” signifies that NULL values are present.

	Contains NULLs?
EXPOCODE	No
CRUISE_ID	No
STATION_ID	No
CAST_NUMBER	No
SAMPLE_ID	No
YEAR_UTC	No
MONTH_UTC	No
DAY_UTC	No
TIME_UTC	No
YEARDAY_UTC	No
LATITUDE_DEC	No
LONGITUDE_DEC	No
DEPTH_METER	No
CTDCASTID_ESD	No
ASSOC_OCC_SITEID	Yes
REGION	No
REGIONCODE	No
LOCATION	No
LOCATIONCODE	No
SURVEY_DESIGN	No
SAMPLE_FREQUENCY	No
TEMPERATURE_ITS90_BEST_ORIGIN	Yes
SALINITY_PSS78_BEST_ORIGIN	Yes
TIMESTAMP_UTC	No

Check for NULLs in all data fields

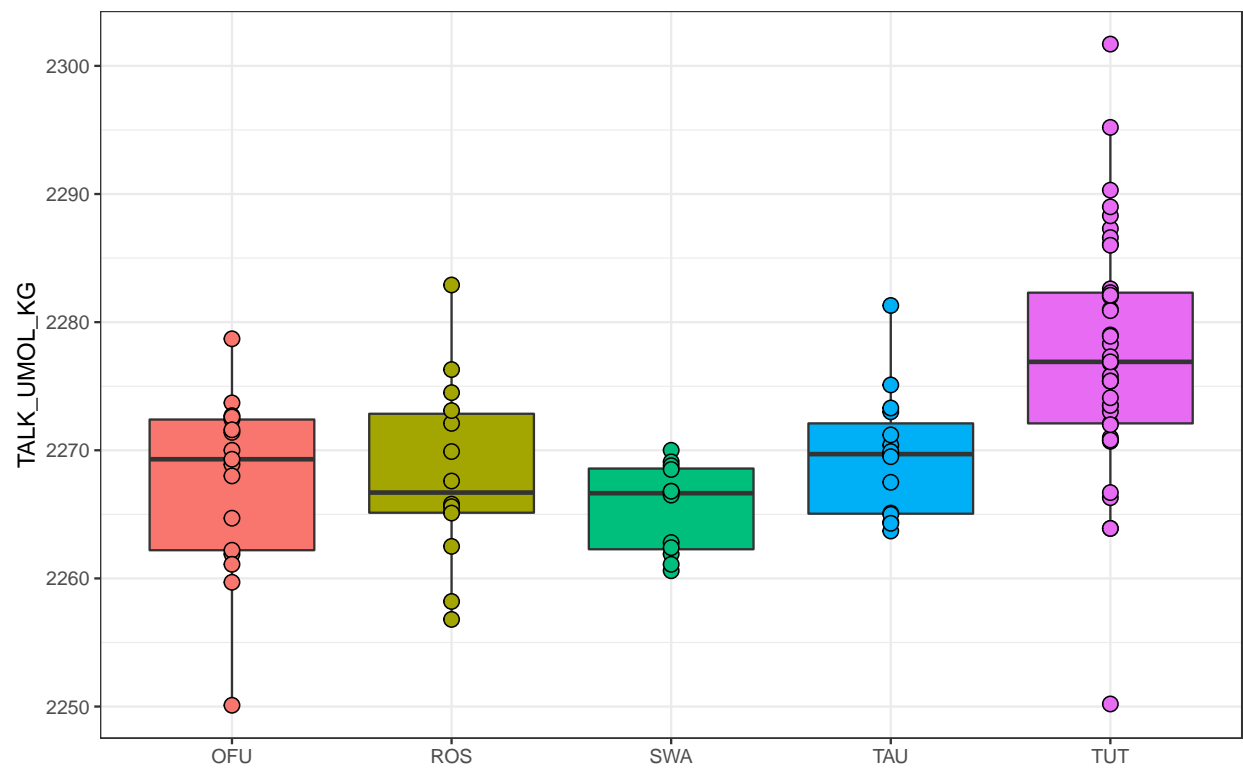
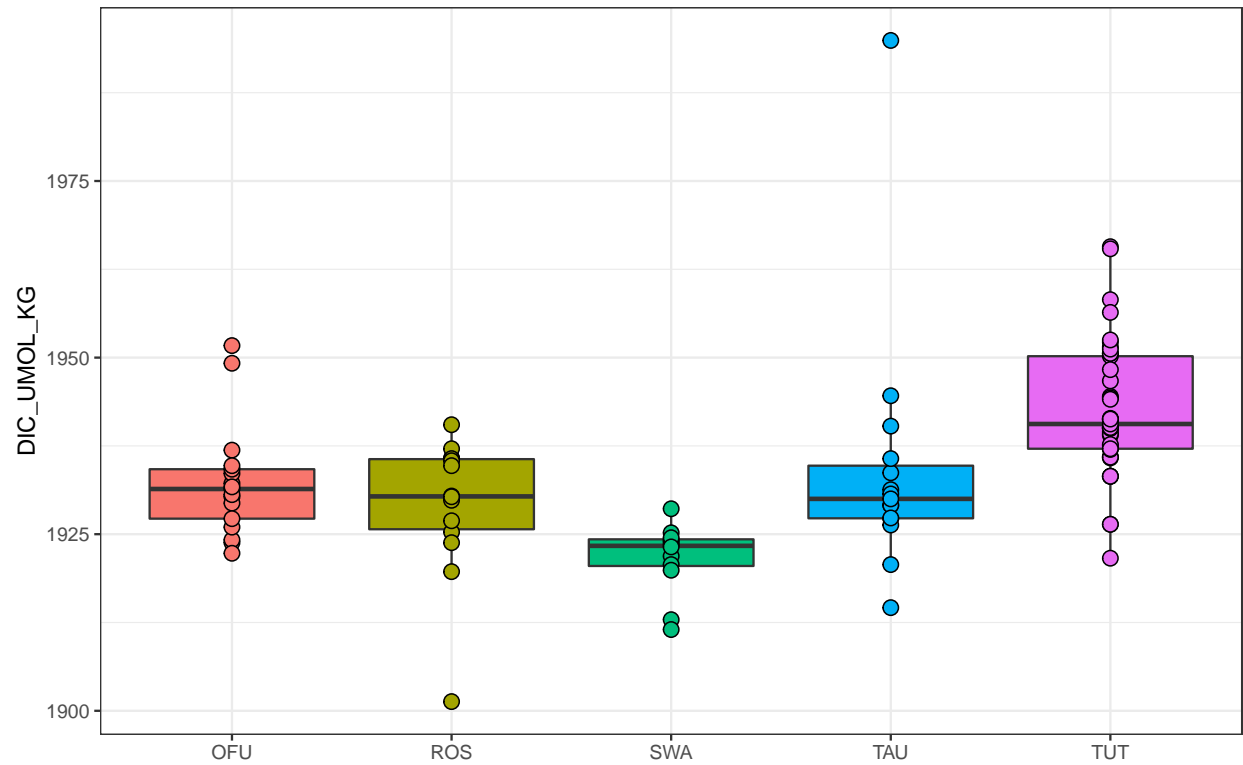
“No” signifies that no NULL data exist. “Yes” signifies that NULL values are present. NULL values may be present in TA or DIC if the sample was unable to be analyzed for either parameter, or in any of the temperature or salinity fields if these variables were not measured using the method specified in the field name. Any sample missing TA and/or DIC will not have values for pH, pCO₂, and ARAGONITE_SAT.

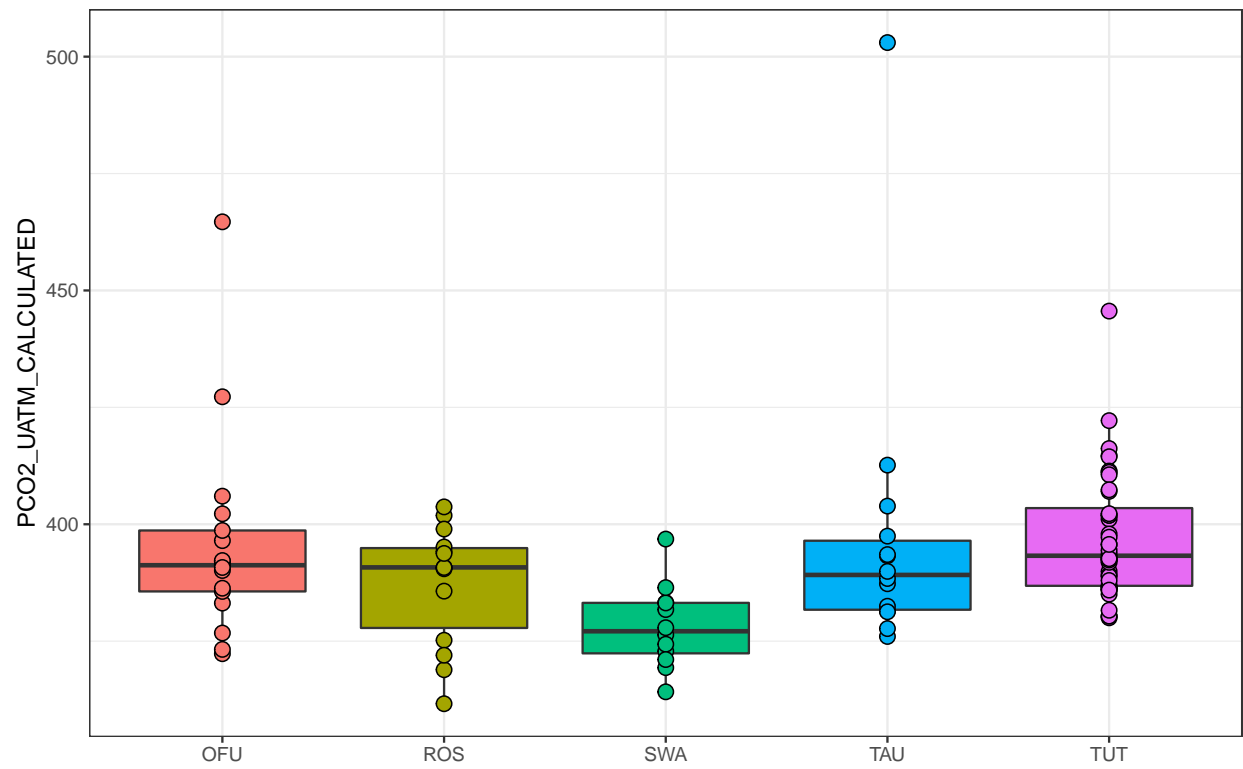
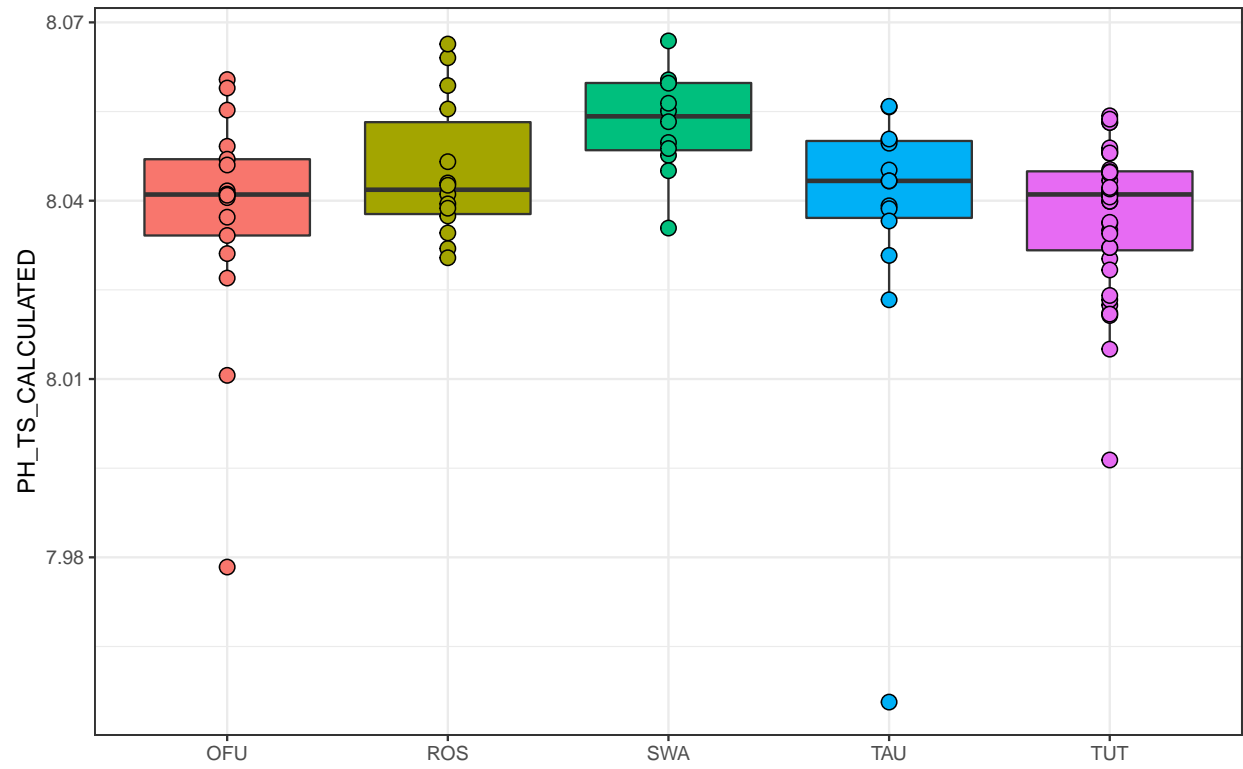
	Contains NULLs?
PRESSURE_DB_CTD	Yes
PRESSURE_DB_CALCULATED	Yes
TEMPERATURE_ITS90_CTD	Yes
TEMPERATURE_ITS90_CTD_FLAG	Yes
TEMPERATURE_ITS90_SCS	Yes
SALINITY_PSS78_CTD	Yes

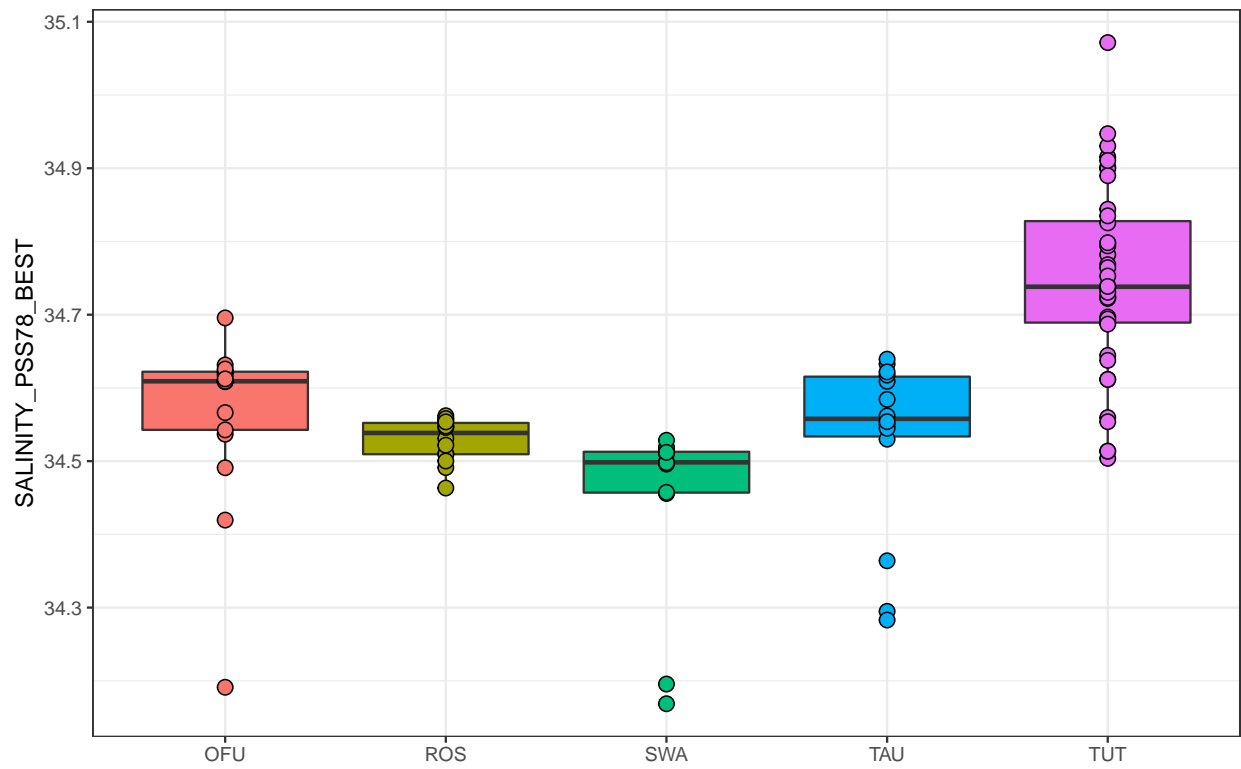
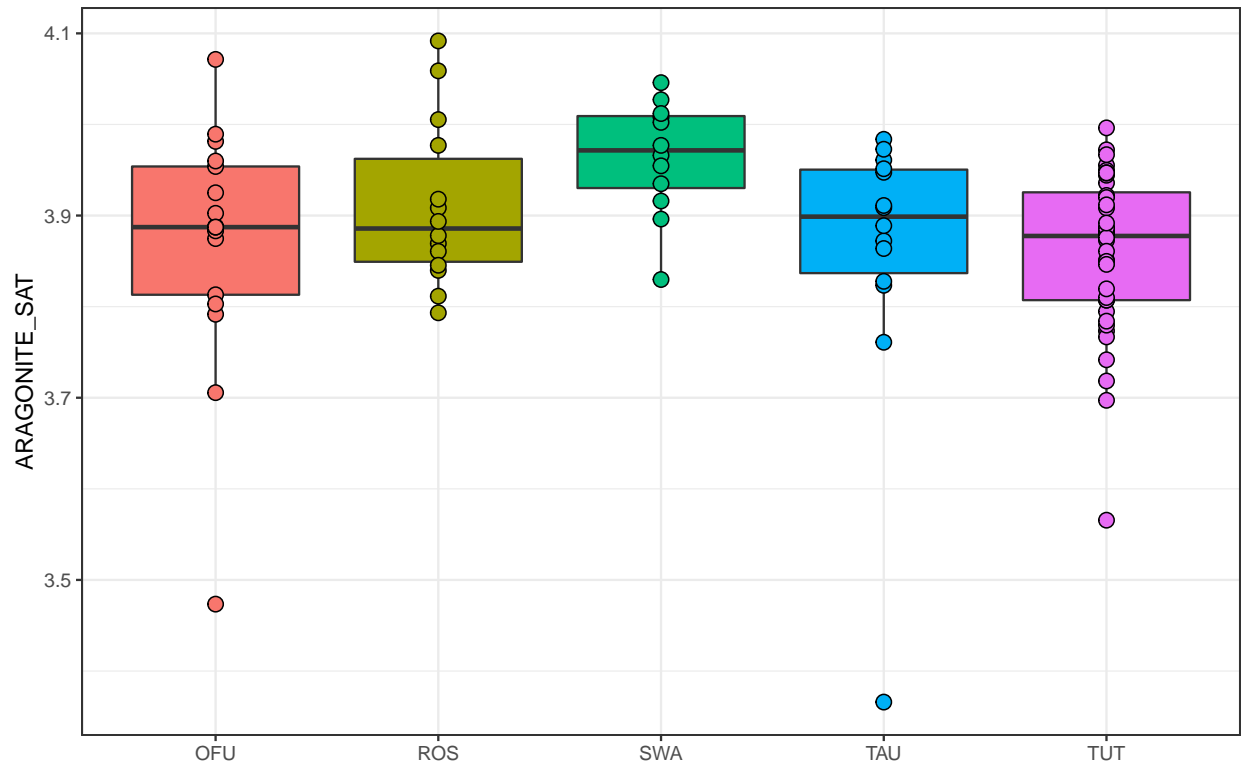
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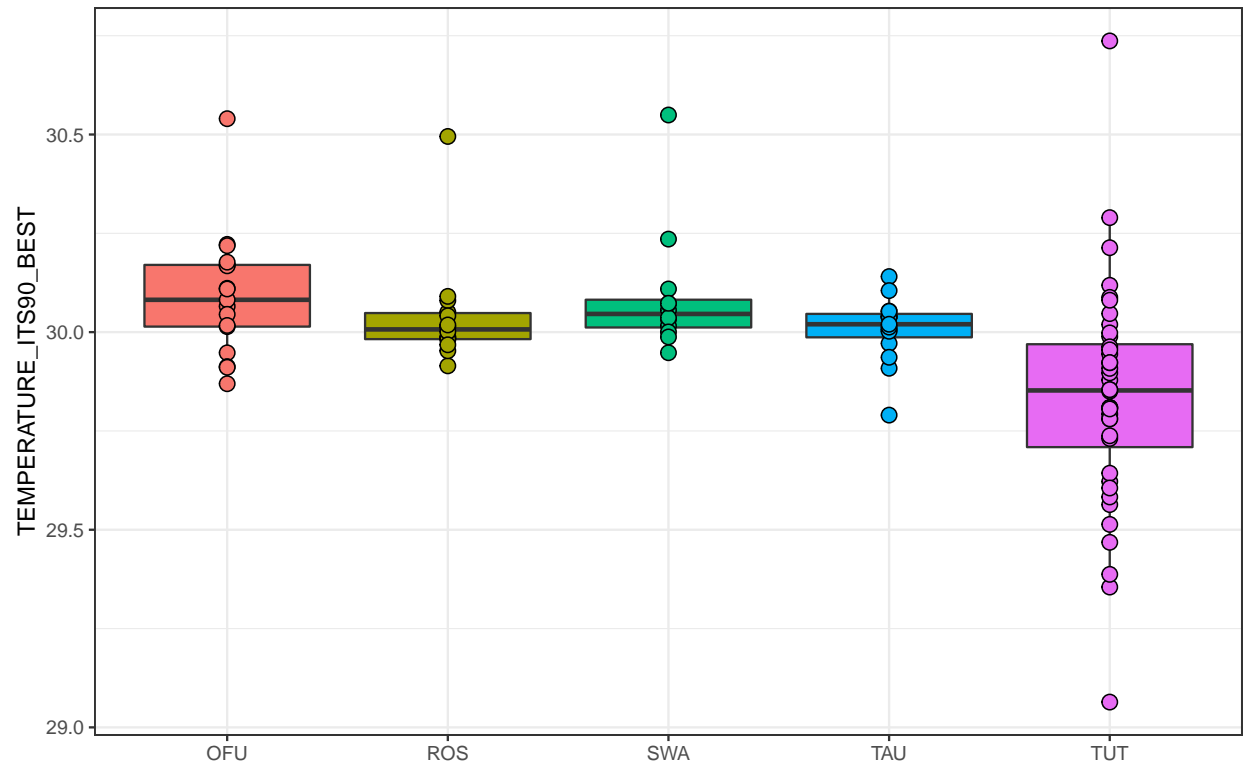
	Contains NULLs?
SALINITY_PSS78_CTD_FLAG	Yes
SALINITY_PSS78_BOTTLE	Yes
SALINITY_PSS78_BOTTLE_FLAG	Yes
SALINITY_PSS78_SCS	Yes
DIC_UMOL_KG	No
DIC_UMOL_KG_FLAG	No
TALK_UMOL_KG	No
TALK_UMOL_KG_FLAG	No
TEMPERATURE_ITS90_BEST	Yes
SALINITY_PSS78_BEST	Yes
PH_TS_CALCULATED	Yes
PCO2_UATM_CALCULATED	Yes
ARAGONITE_SAT	Yes

Sample data by island:









Diel suite plots:

