

H2O QC Report: PRIA 2015

The file used in this QC routine is: ESD_NCRMP_H2O_2015_PRIA.csv

QC run at: 2021-03-09 15:40:17 HST

Number of samples in data file: 115

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	-0.3892417	16.7634269
LONGITUDE_DEC	-176.6239	-159.9750
TIMESTAMP_UTC	2015-01-26 23:19:00	2015-04-28 23:00:00
YEAR_UTC	2015	2015
MONTH_UTC	1	4
DAY_UTC	4	29
TIME_UTC	00:00:00	23:59:00
YEARDAY_UTC	26.97	118.96
DEPTH_METER	0.9	19.8
PRESSURE_DB_CTD	1.00500	20.03163
PRESSURE_DB_CALCULATED	NA	NA
TEMPERATURE_ITS90_CTD	25.51470	29.43495
TEMPERATURE_ITS90_SCS	NA	NA
TEMPERATURE_ITS90_BEST	25.51470	29.43495
SALINITY_PSS78_CTD	34.0213	35.3998
SALINITY_PSS78_BOTTLE	NA	NA
SALINITY_PSS78_SCS	NA	NA
SALINITY_PSS78_BEST	34.0213	35.3998
DIC_UMOL_KG	1897.7	2182.2
TALK_UMOL_KG	2219.8	2341.1
PH_TS_CALCULATED	7.686236	8.115351
PCO2_UATM_CALCULATED	324.7501	1059.0626
ARAGONITE_SAT	1.971990	4.355493

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

LOCATIONCODE	CRUISE_ID	EXPCODE	NO.SAMPLES	TIMESTAMP_UTC.range
BAK	HA1501_PHOENIX	33HL20150120	10	2015-02-08 23:40:00, 2015-02-12 00:37:00
HOW	HA1501_PHOENIX	33HL20150120	9	2015-02-04 21:14:00, 2015-02-07 20:39:00
JAR	HA1501_LINE	33HL20150331	30	2015-04-09 00:37:00, 2015-04-13 20:24:00
JOH	HA1501_PHOENIX	33HL20150120	11	2015-01-26 23:19:00, 2015-01-29 02:05:00

(continued)

LOCATIONCODE	CRUISE_ID	EXPOCODE	NO.SAMPLES	TIMESTAMP_UTC.range
KIN	HA1501_LINE	33HL20150331	27	2015-04-24 15:55:00, 2015-04-28 23:00:00
PAL	HA1501_LINE	33HL20150331	28	2015-04-15 20:50:00, 2015-04-22 13:38:00

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	No
SALINITY_PSS78_BEST_ORIGIN	No
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	No
PRESSURE_DB_CALCULATED	Yes
TEMPERATURE_ITS90_CTD	No
TEMPERATURE_ITS90_CTD_FLAG	No
TEMPERATURE_ITS90_SCS	Yes

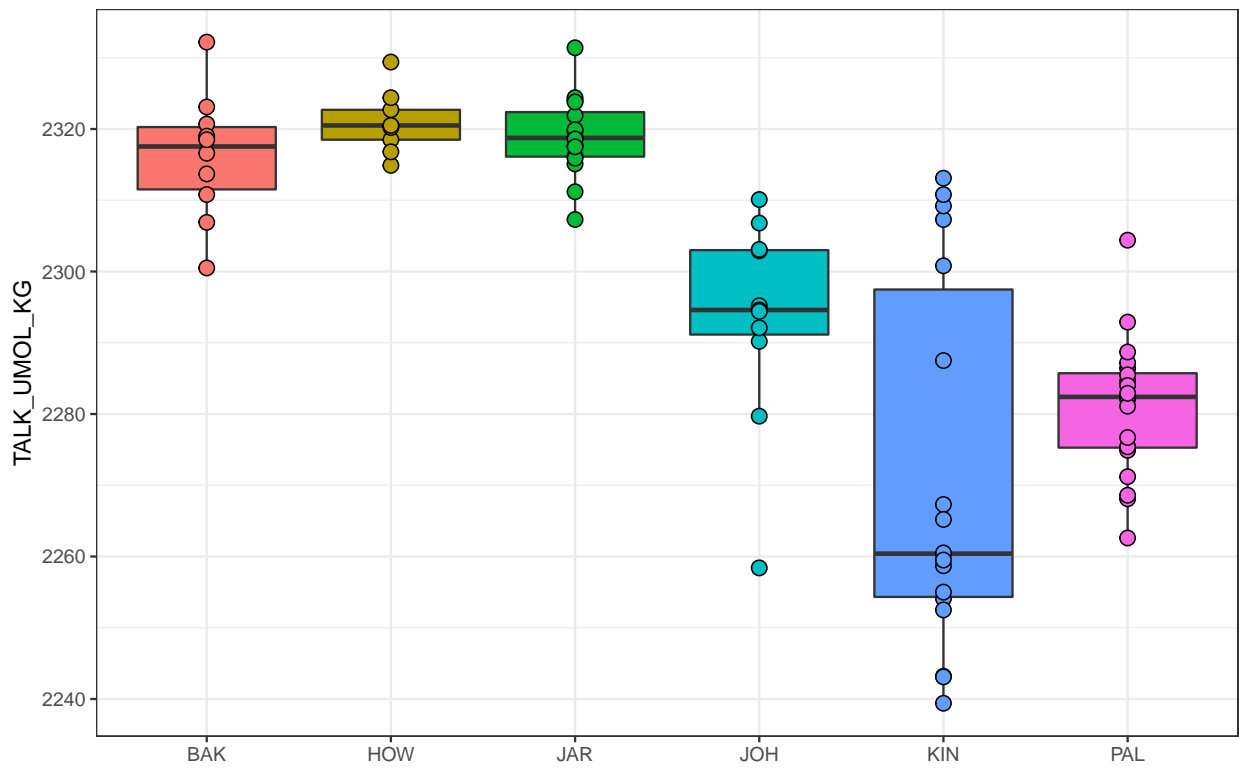
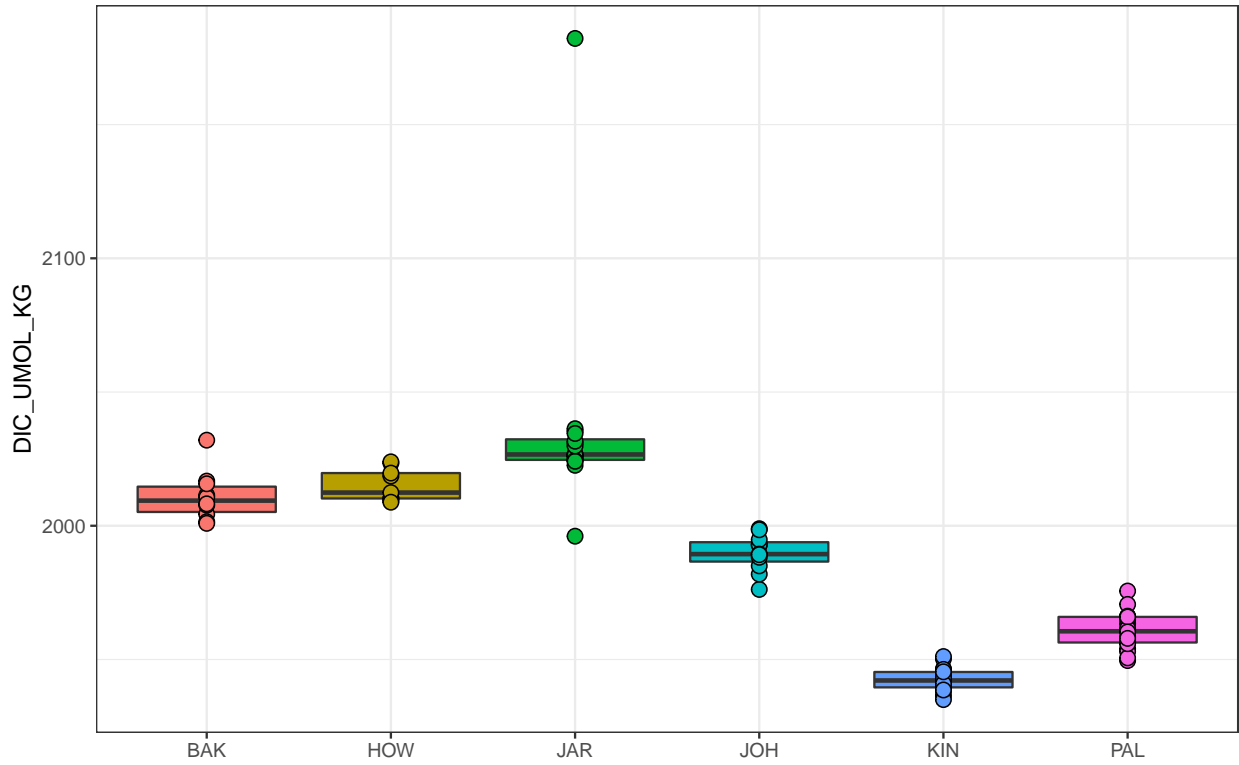
(continued)

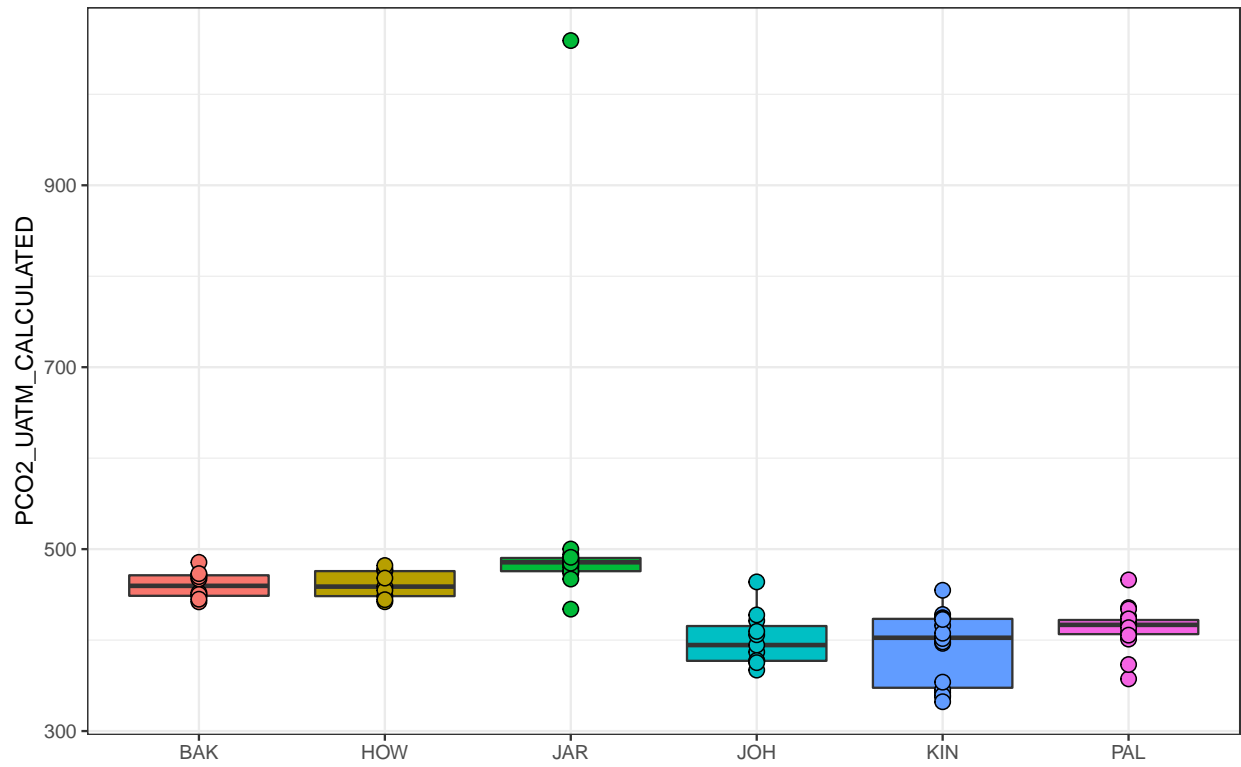
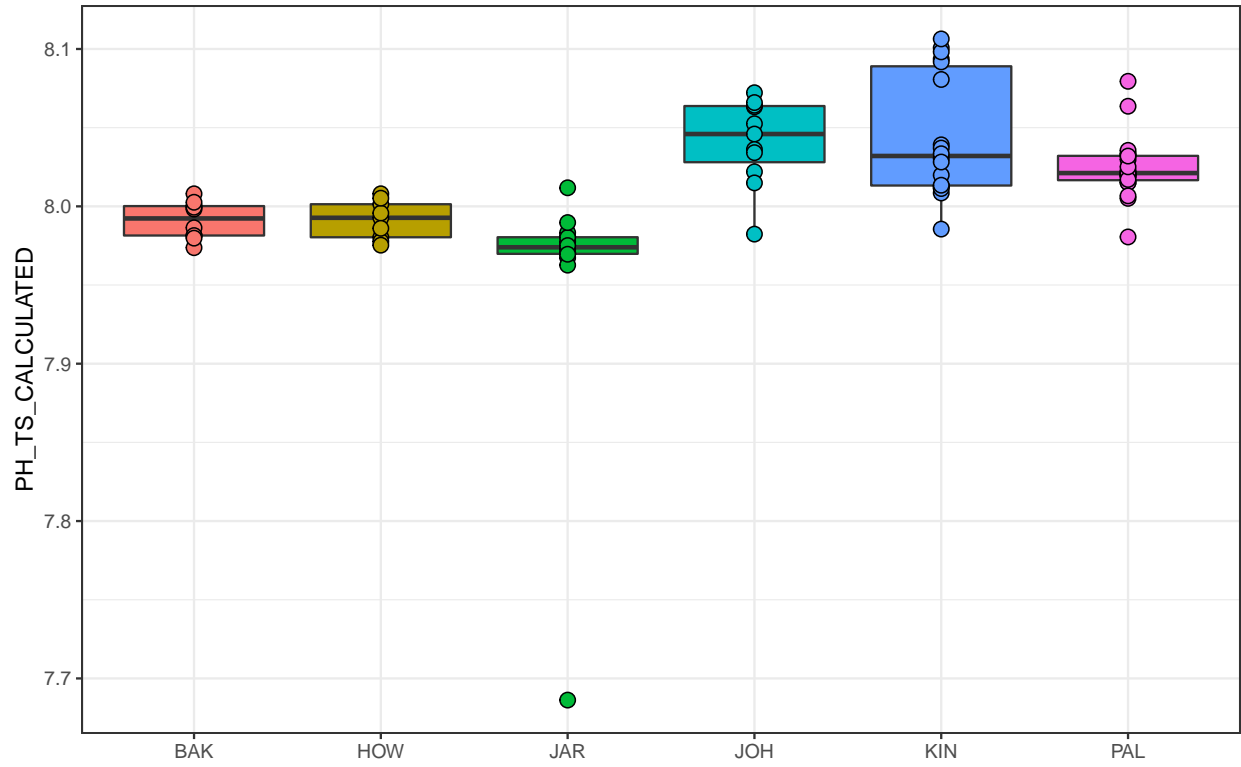
	Contains NULLs?
SALINITY_PSS78_CTD	No
SALINITY_PSS78_CTD_FLAG	No
SALINITY_PSS78_BOTTLE	Yes
SALINITY_PSS78_BOTTLE_FLAG	Yes
SALINITY_PSS78_SCS	Yes
DIC_UMOL_KG	Yes
DIC_UMOL_KG_FLAG	Yes
TALK_UMOL_KG	No
TALK_UMOL_KG_FLAG	No
TEMPERATURE_ITS90_BEST	No
SALINITY_PSS78_BEST	No
PH_TS_CALCULATED	Yes
PCO2_UATM_CALCULATED	Yes
ARAGONITE_SAT	Yes

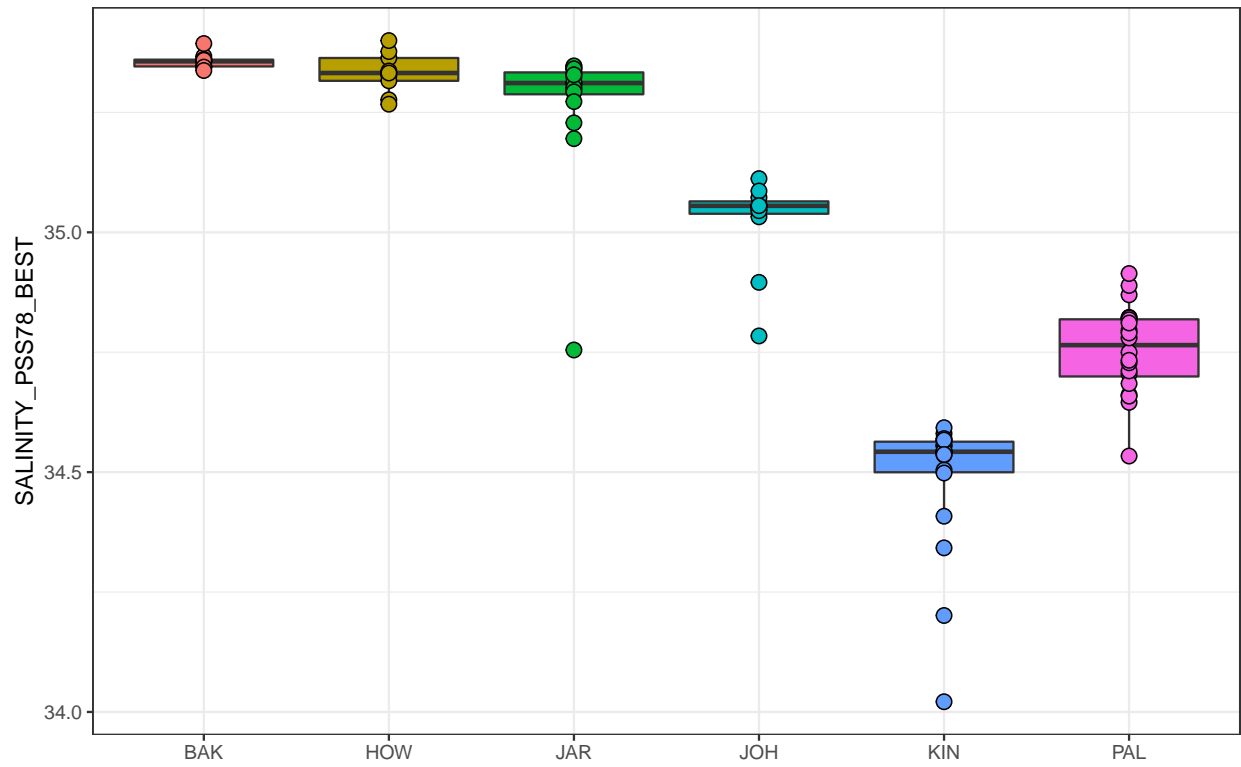
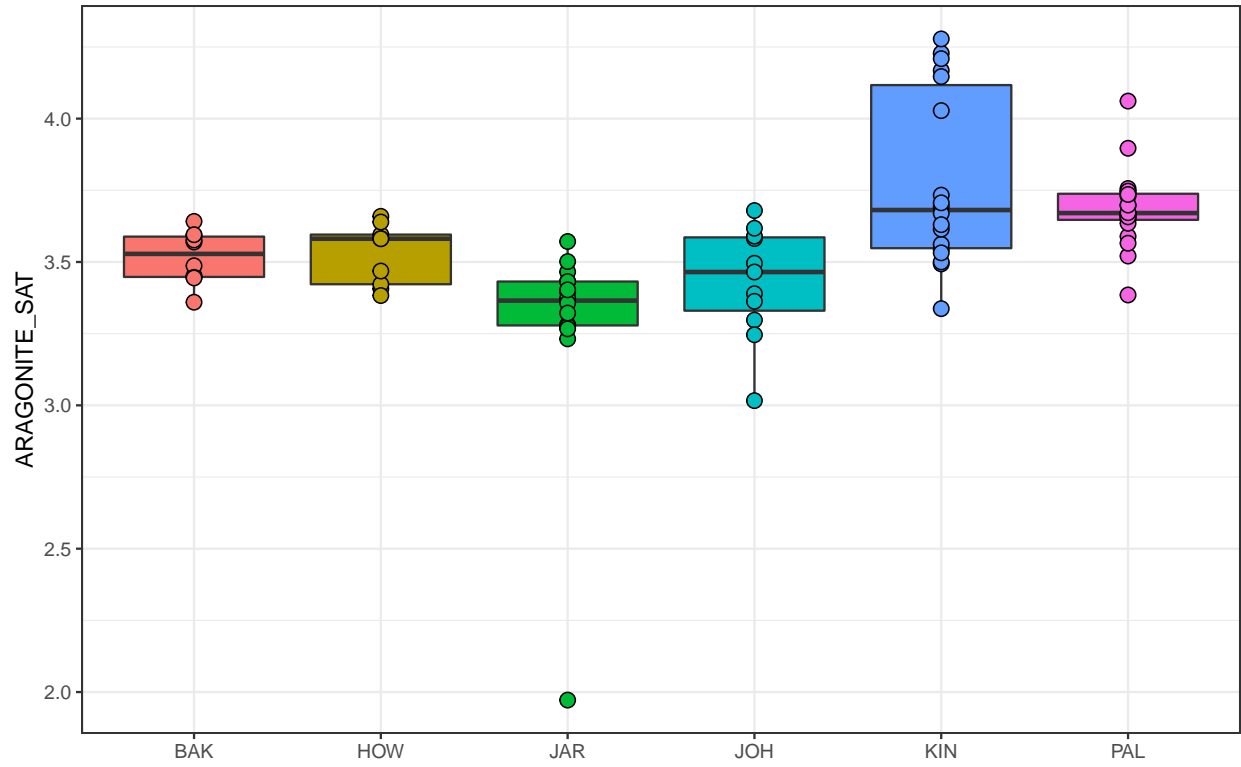
[1] “The following samples are missing DIC, pH, pCO₂, and Aragonite_Sat values:”

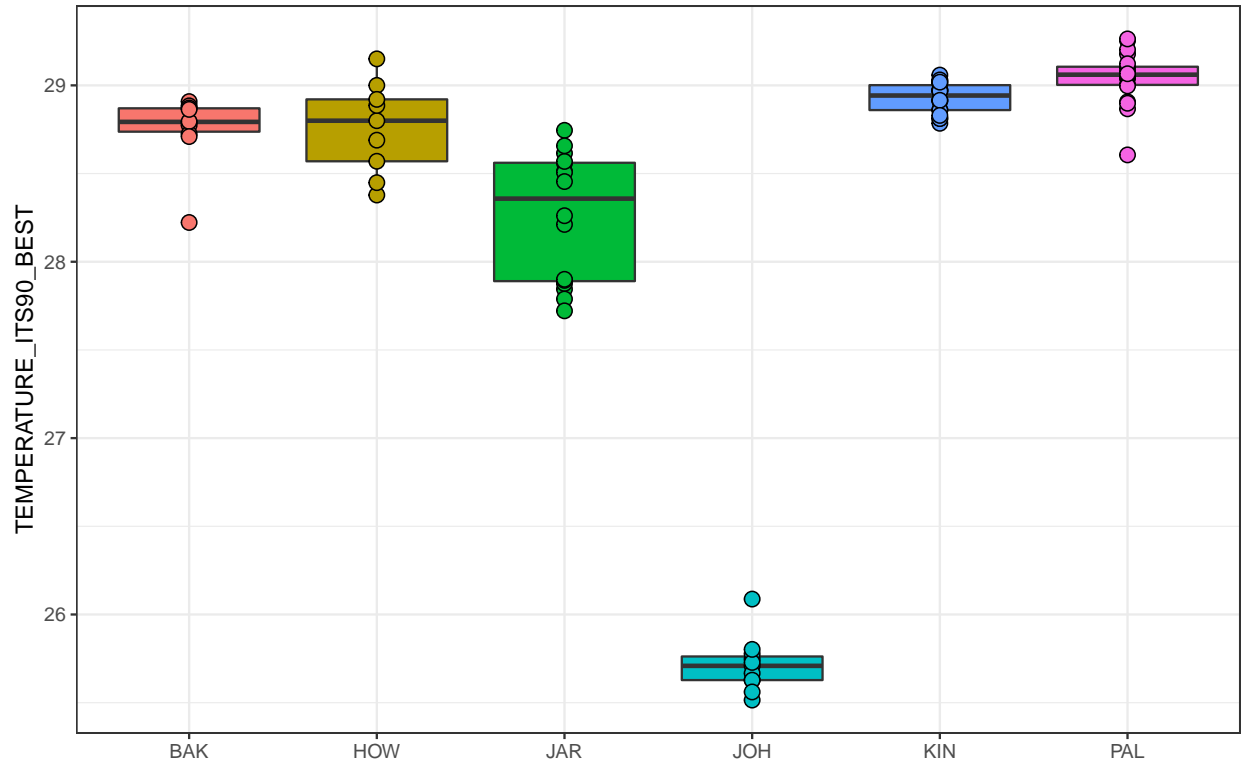
Samples missing DIC_UMOL_KG values
4417

Sample data by island:

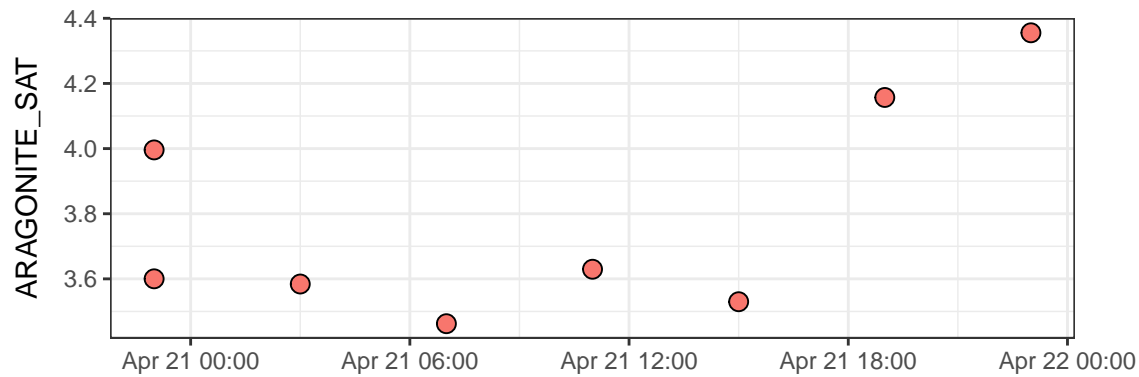
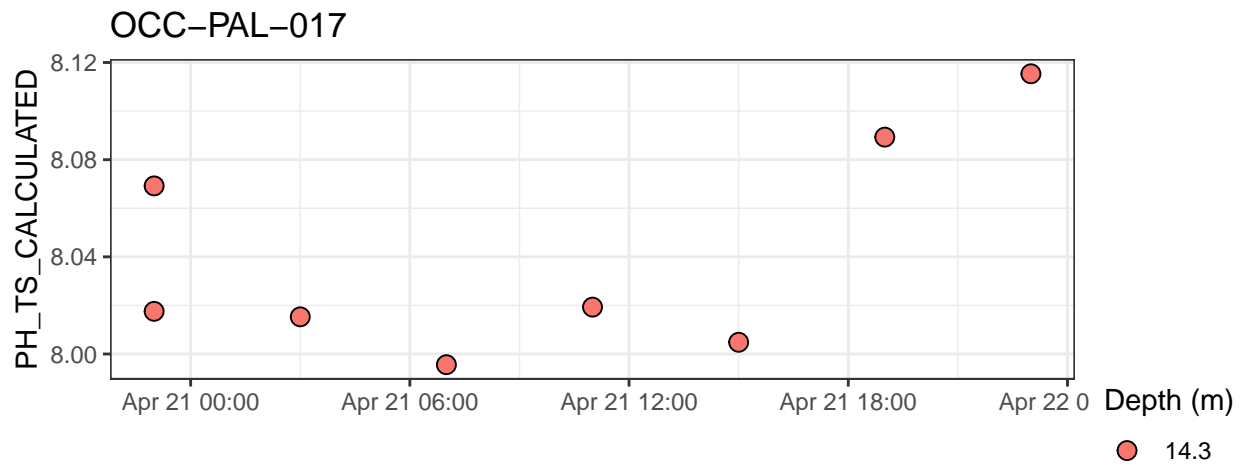
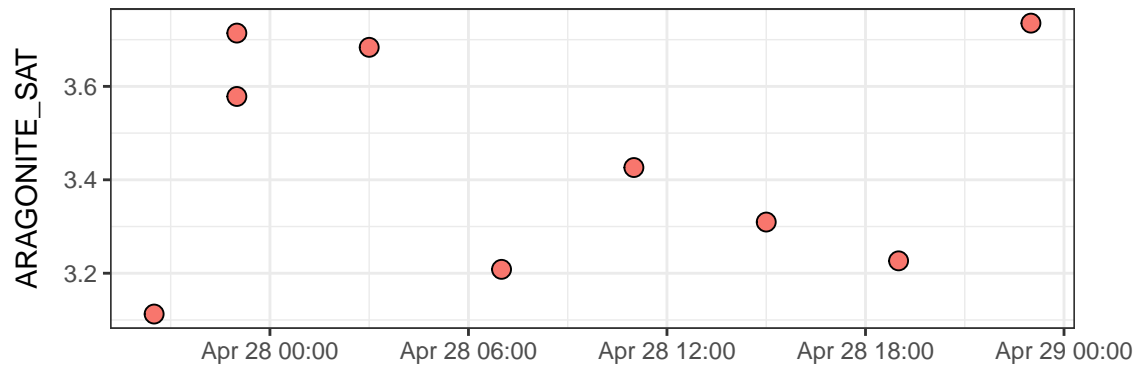
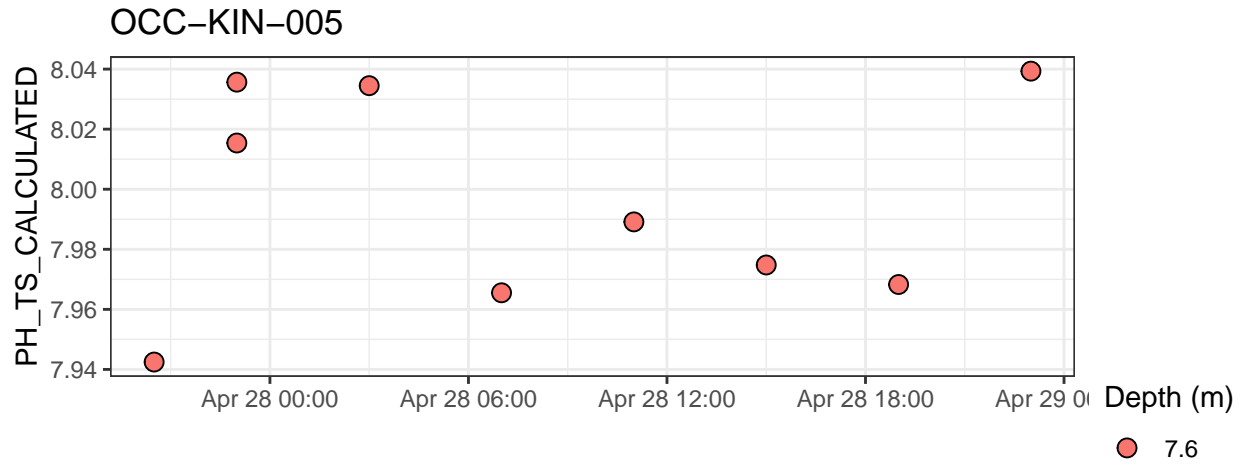




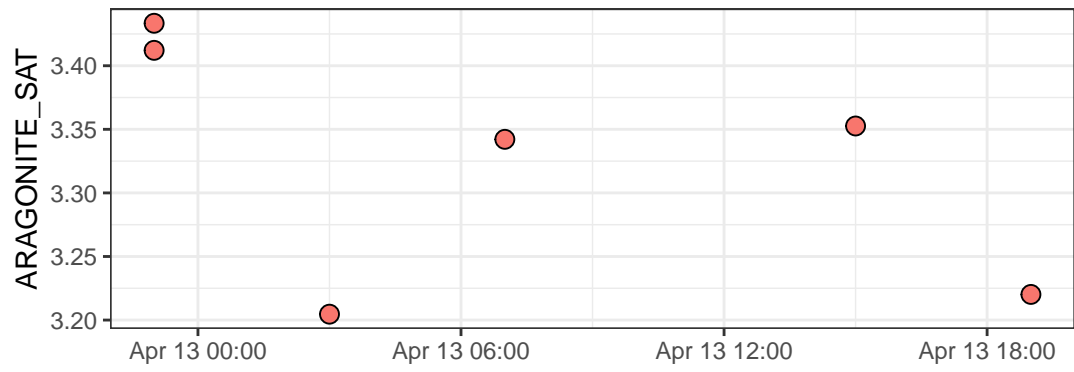
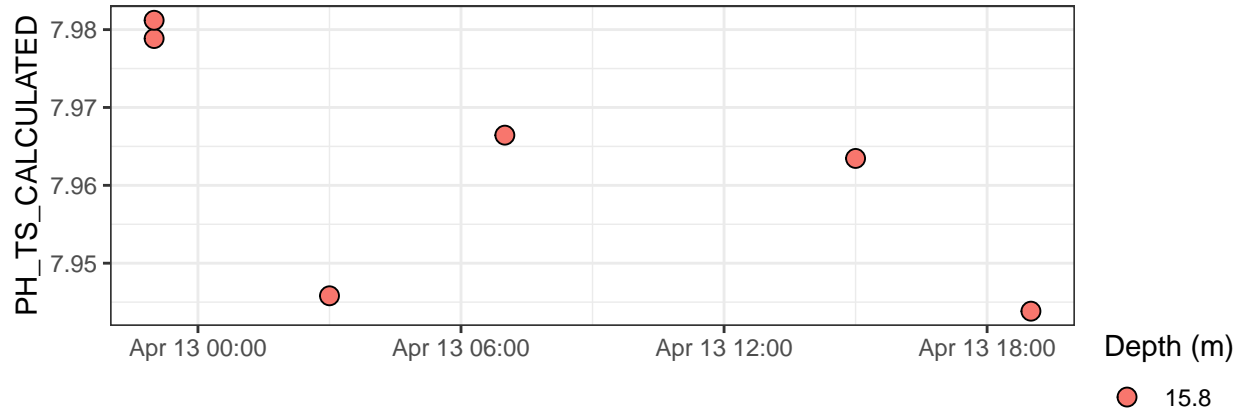




Diel suite plots:



OCC-JAR-003



OCC-JAR-013

