

H2O QC Report: PRIA 2017

The file used in this QC routine is: ESD_NCRMP_H2O_2017_PRIA.csv

QC run at: 2021-03-10 07:47:02 HST

Number of samples in data file: 65

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	-0.5544667	19.5009427
LONGITUDE_DEC	166.5954	-159.7949
TIMESTAMP_UTC	2017-04-02 23:00:00	2017-04-22 09:27:00
YEAR_UTC	2017	2017
MONTH_UTC	4	4
DAY_UTC	2	22
TIME_UTC	00:08:00	23:11:00
YEARDAY_UTC	92.96	112.39
DEPTH_METER	0.9	16.8
PRESSURE_DB_CTD	0.90000	16.62259
PRESSURE_DB_CALCULATED	NA	NA
TEMPERATURE_ITS90_CTD	26.29494	27.69070
TEMPERATURE_ITS90_SCS	26.8178	28.1105
TEMPERATURE_ITS90_BEST	26.29494	28.11050
SALINITY_PSS78_CTD	34.6174	35.4160
SALINITY_PSS78_BOTTLE	NA	NA
SALINITY_PSS78_SCS	34.6820	35.1347
SALINITY_PSS78_BEST	34.6174	35.4160
DIC_UMOL_KG	1938.7	2060.3
TALK_UMOL_KG	2238.9	2321.8
PH_TS_CALCULATED	7.846323	8.088486
PCO2_UATM_CALCULATED	348.7918	665.8852
ARAGONITE_SAT	2.530922	3.992555

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

LOCATIONCODE	CRUISE_ID	EXPOCODE	NO.SAMPLES	TIMESTAMP_UTC.range
BAK	HA1701_PRIA	33HL20170326	7	2017-04-10 21:50:00, 2017-04-11 07:37:00
HOW	HA1701_PRIA	33HL20170326	7	2017-04-11 21:59:00, 2017-04-12 08:21:00
JAR	HA1701_PRIA	33HL20170326	35	2017-04-02 23:00:00, 2017-04-05 23:00:00
WAK	HA1701_PRIA	33HL20170326	16	2017-04-19 00:50:00, 2017-04-22 09:27:00

(continued)

LOCATIONCODE	CRUISE_ID	EXPOCODE	NO.SAMPLES	TIMESTAMP_UTC.range
--------------	-----------	----------	------------	---------------------

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	Yes
TEMPERATURE_ITS90_CTD_FLAG	Yes
TEMPERATURE_ITS90_SCS	Yes
SALINITY_PSS78_CTD	Yes
SALINITY_PSS78_CTD_FLAG	Yes

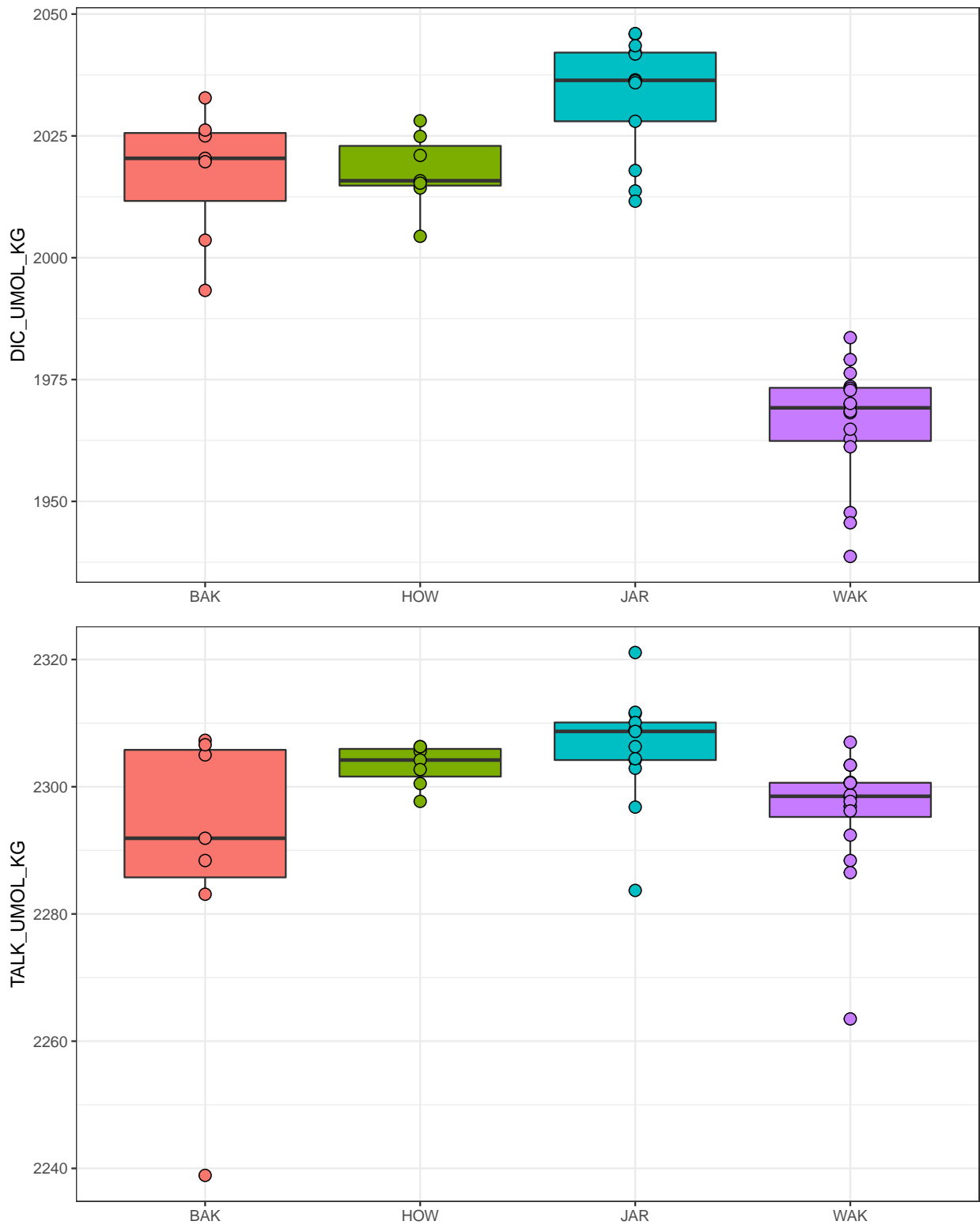
(continued)

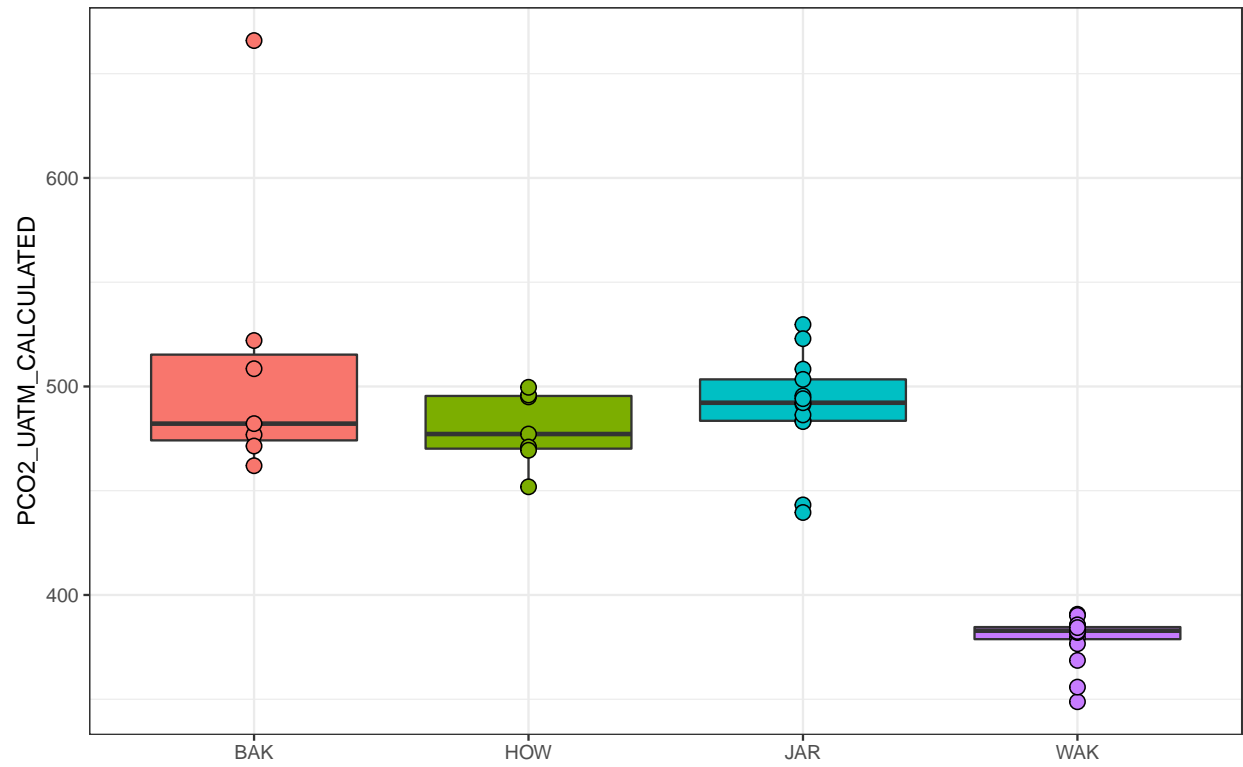
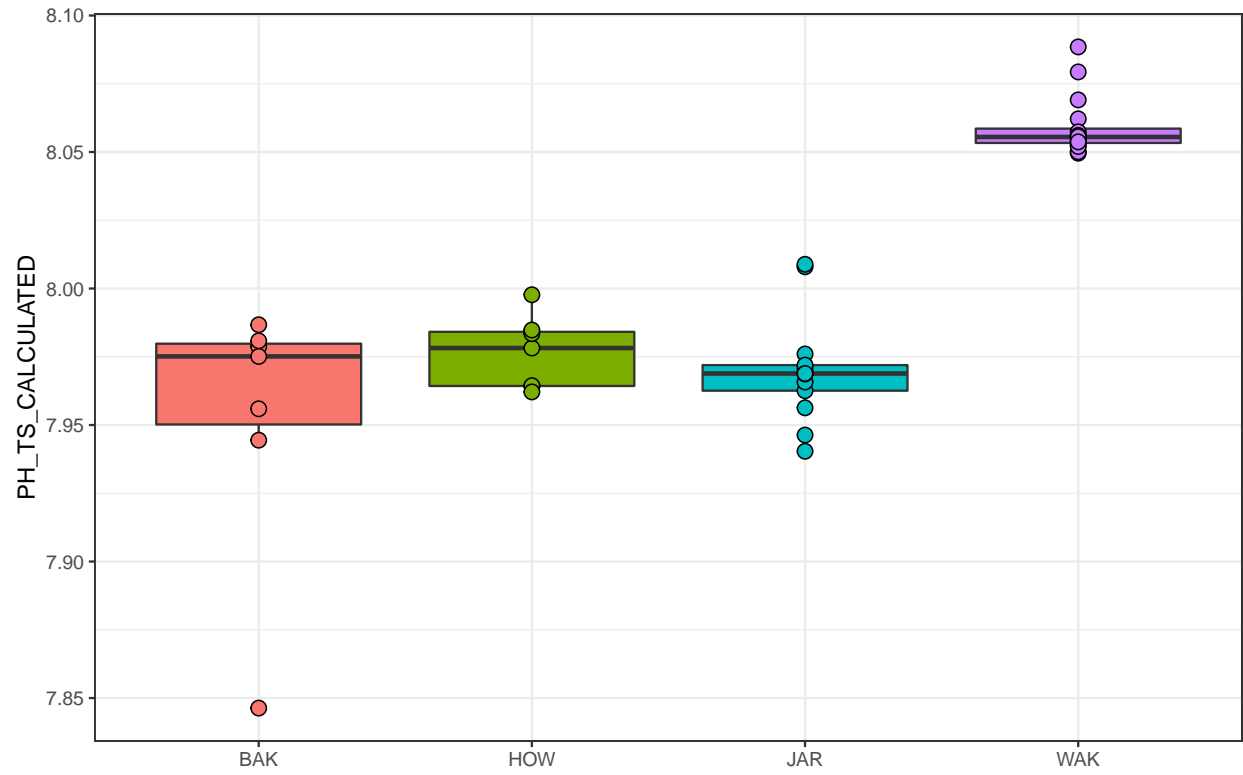
	Contains NULLs?
SALINITY_PSS78_BOTTLE	Yes
SALINITY_PSS78_BOTTLE_FLAG	Yes
SALINITY_PSS78_SCS	Yes
DIC_UMOL_KG	Yes
DIC_UMOL_KG_FLAG	Yes
TALK_UMOL_KG	No
TALK_UMOL_KG_FLAG	No
TEMPERATURE_ITS90_BEST	No
SALINITY_PSS78_BEST	No
PH_TS_CALCULATED	Yes
PCO2_UATM_CALCULATED	Yes
ARAGONITE_SAT	Yes

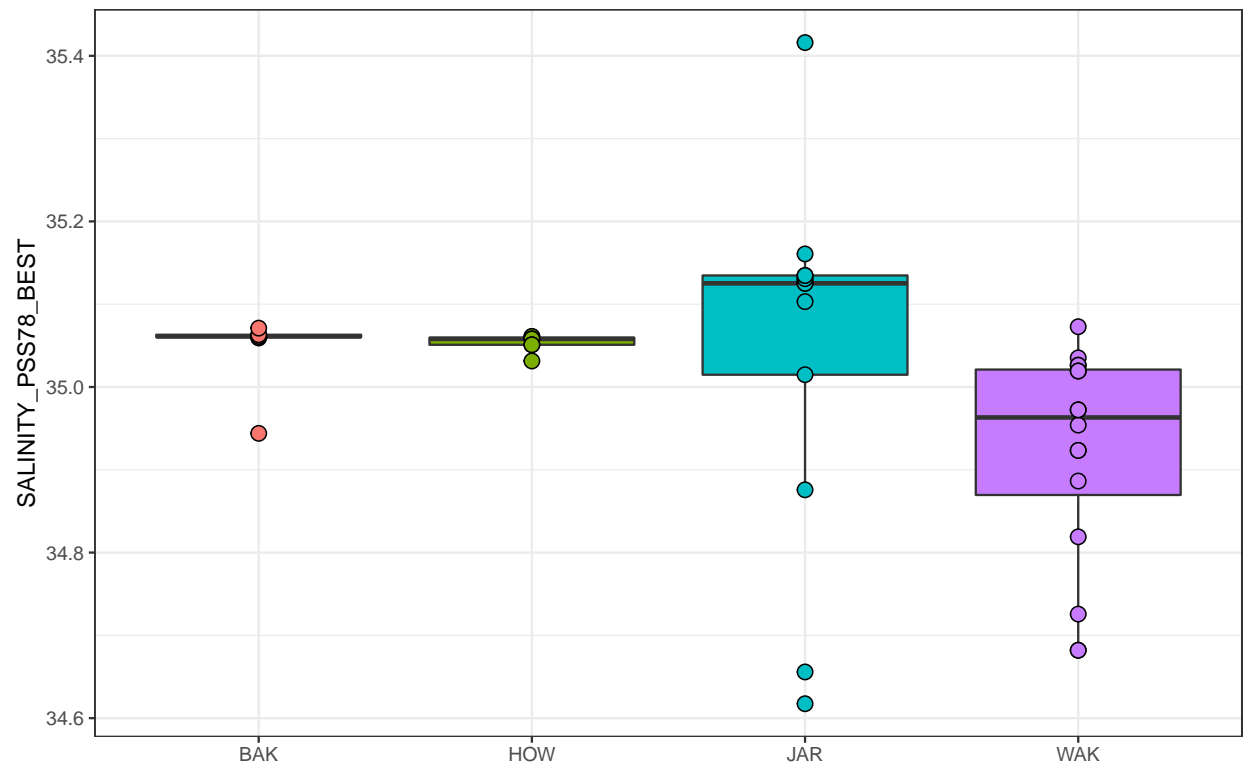
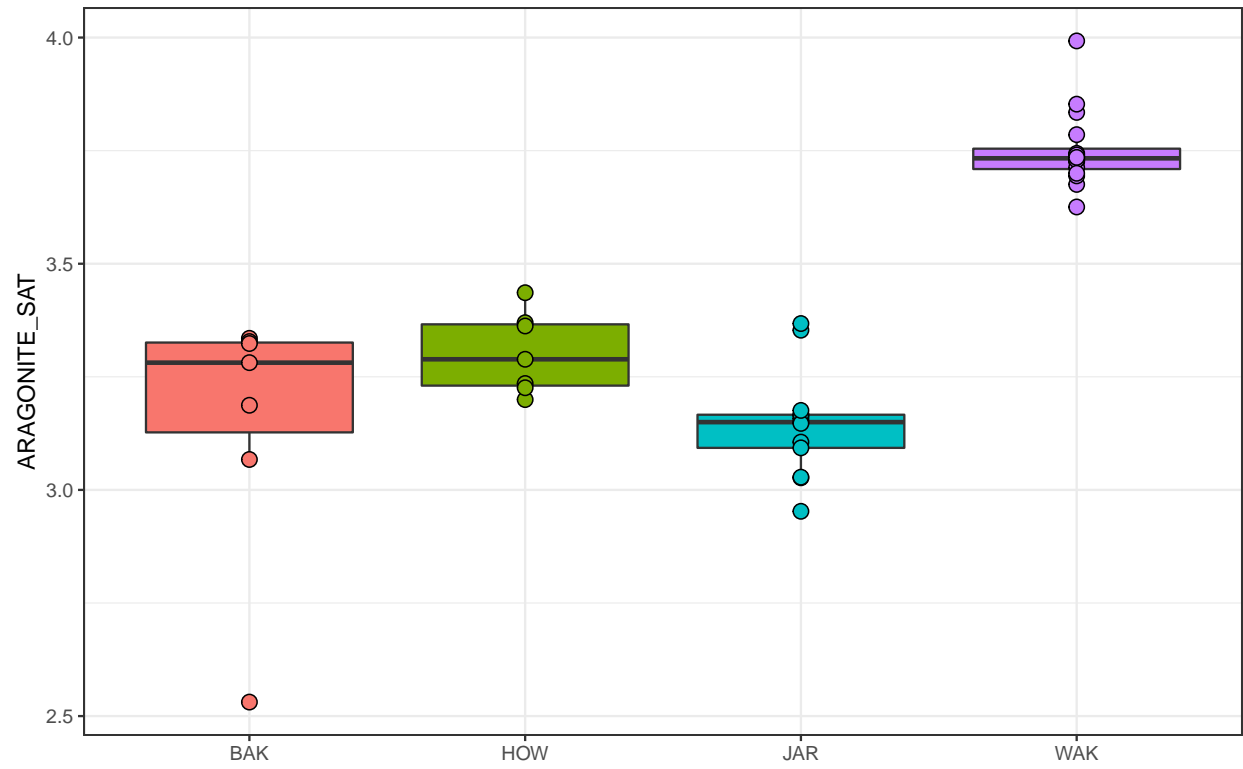
[1] “The following samples are missing DIC, pH, pCO2, and Aragonite_Sat values:”

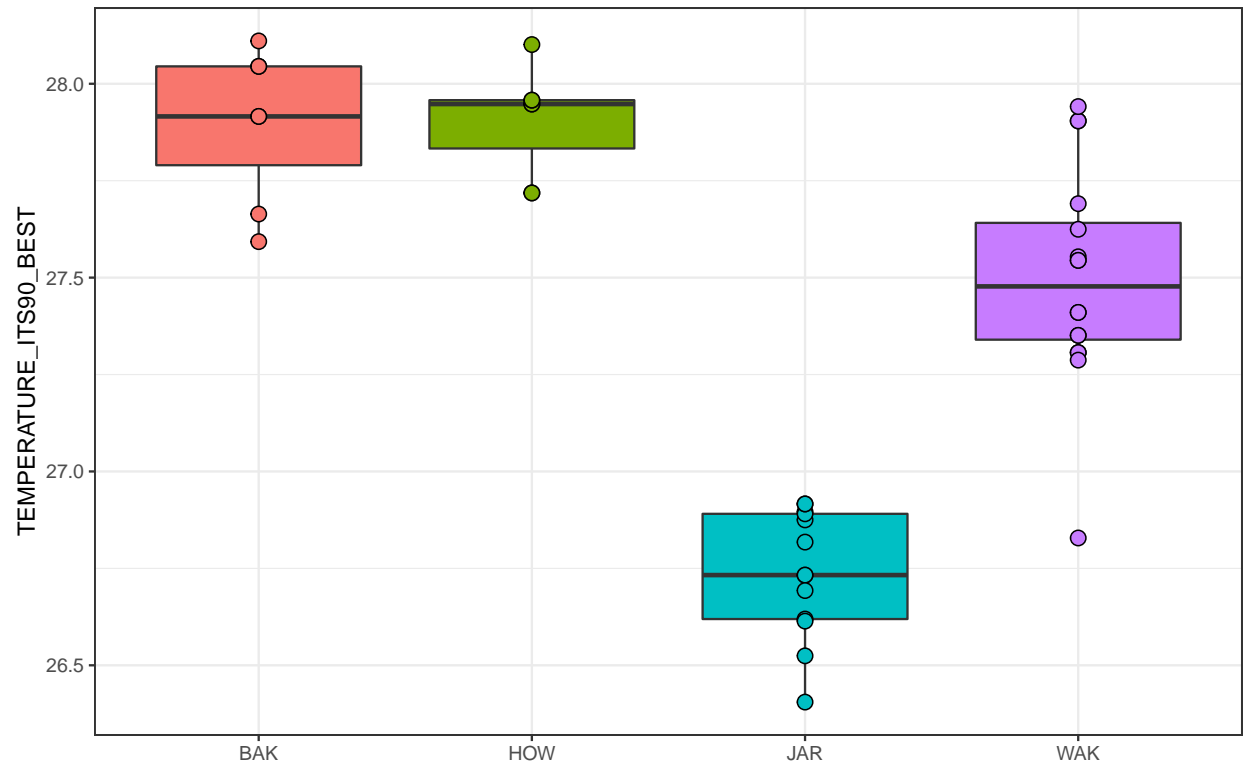
Samples missing DIC_UMOL_KG values
4921
4922
4905
4909
4908

Sample data by island:









Diel suite plots:

