

RONMAC - Data Collection

<u>Parameter</u>	<u>Sensor</u>	<u>Log Int.</u>	<u>Units</u>	<u>Processing</u>
Sea Level	Bartex 4100 Acoustic	6 min.	mm	Avg 181 – 1 second samples w/std. Dev. & outliers
Backup water-level	Druck 0-15 psi pressure sensor	30 min.	mm	1 second sample
Wind	RM Young Wind Monitor	1 hour	M/sec Deg	*see note
Water temp	YSI thermistor	1 hour	°C	Avg of 60 – 1 sec samples
Air temp	Vaisala thermistor	1 hour	°C	Avg of 60 – 1 sec samples
RH	Vaisala HMP45A	1 hour	0-100%	Avg of 180 – 1 sec samples
Baro	RM Young 61201	1 hour	mB	Avg of 60 – 1 sec samples
Rainfall	Hydro Sciences	Event	0.01 in.	Per tip
Solar Radiation	LiCor Pyranometer	1 hour	W/m ²	Avg of 60 – 1 sec samples

* Wind processing note

- Scalar wind speed and vectored wind direction are logged once an hour and transmitted to GOES. They are measured for six minutes prior to the log time using 5-second sample intervals.
- Gusts are measured over the full hour for 5 seconds every five seconds (not sliding 5 second window) and logged and transmitted to GOES.
- Scalar wind speed, vectored wind direction, and wind gust are serially reported every 6 minutes. Wind speed, direction and gust are measured over a 5 second period every five seconds. This applies to the data that is sent out for the “remote screen” data report and the marine VHF voice data.
- Wind direction is reported ranging from 0 degrees to 359 degrees.