Toolik 2016 Met Station Update

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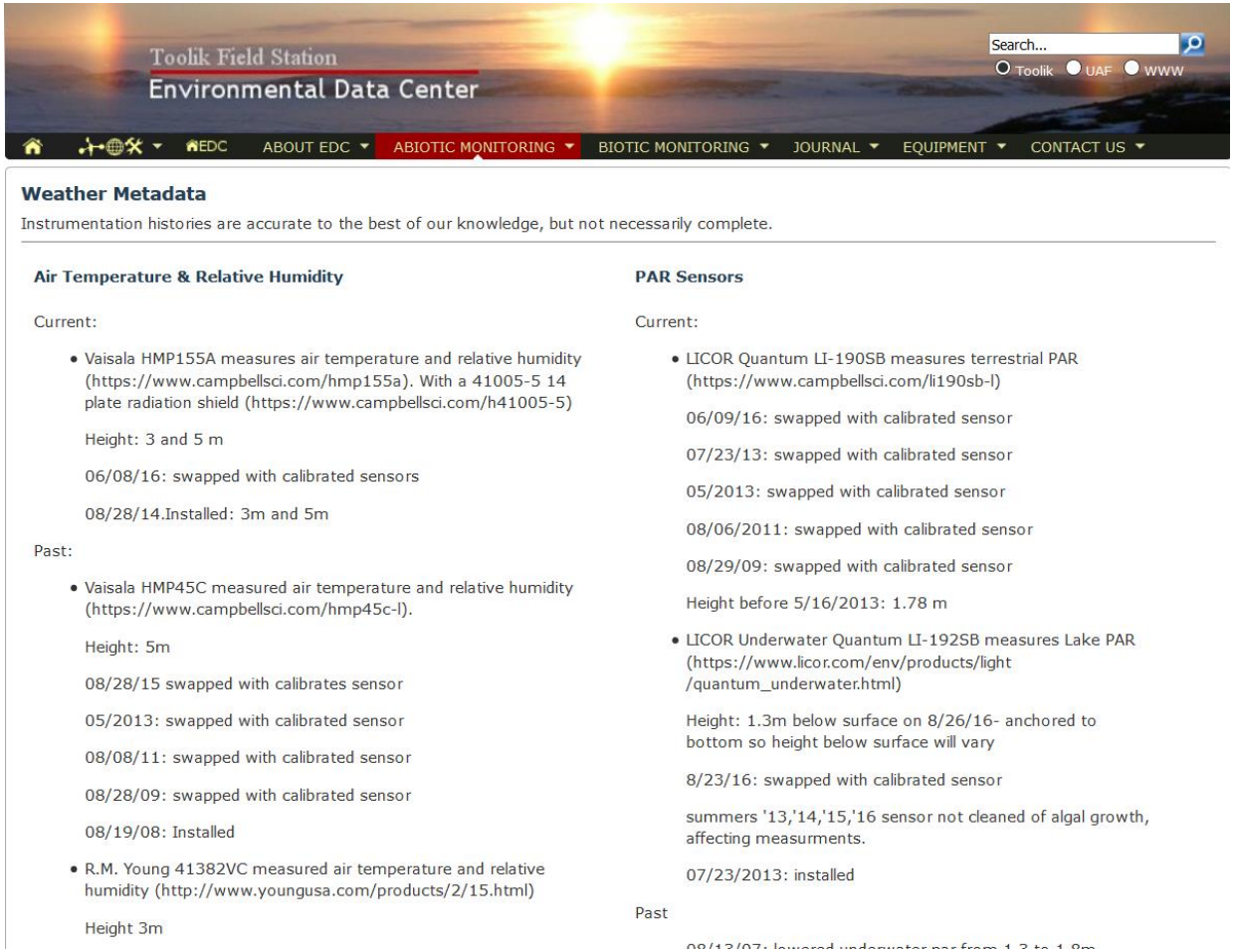
Met Station Team Goals

- Provide the best possible meteorological data in a timely manner
- Provide consistent data through instrument changes, upgrades, and maintenance
- Use best data management practices
- Follow best field practices
- Create value added products

Instrumentation Metadata

- Available on website
- When user downloads data from website, metadata is also downloaded
- Continuing project



Snow depth data

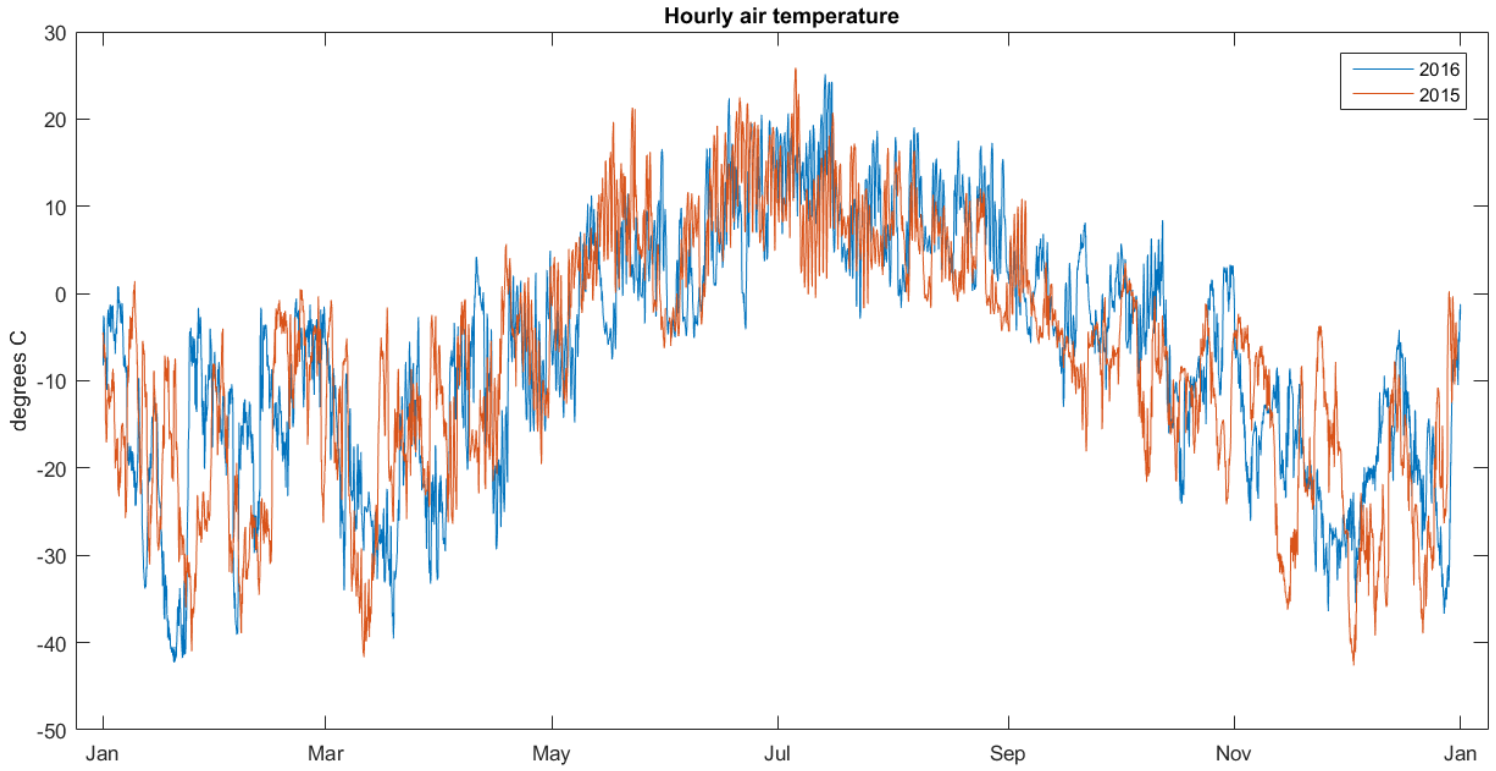
- **Data available on website starting in November 2014**
- **Instrument is a depth sensor attached to main met tower**

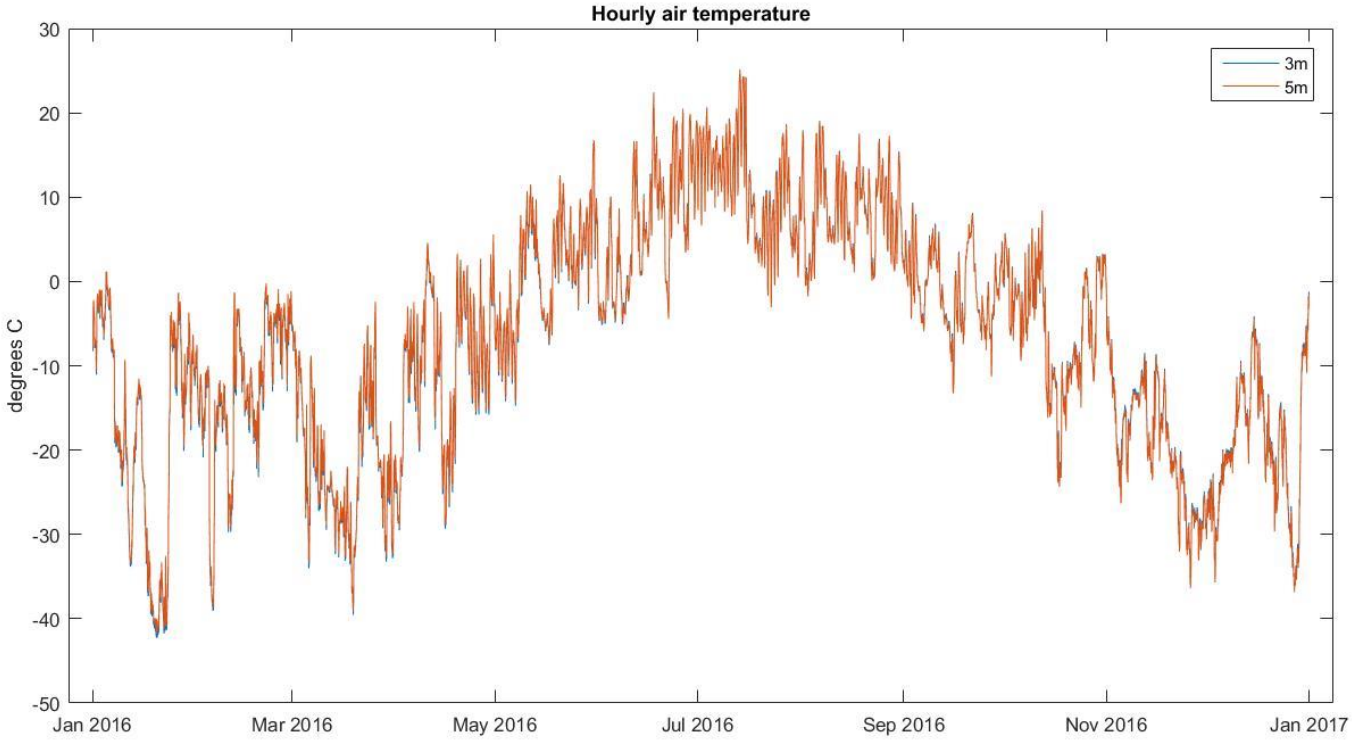
Further 2016 accomplishments

- Evaporation gauge collected data all summer
- Replaced broken barometer
- Swapped many instruments for calibration
- 2016 provisional data provided on request
- Created plan to clean underwater PAR sensor and attached buoy for easier maintenance
- Replaced torn mesh panel on Pluvio wind shield
- Calibrated both precipitation gauges
- Updated website with new photos and instrumentation changes
- Ongoing maintenance

Goals for 2017

- Acquire and install BF5 sunshine sensor – diffuse PAR
- Update TFS data on Imiq Hydroclimate Database
- Organize data logger enclosure
- Improve instrumentation metadata




Hourly air temperature
3m
5m
degrees C
30
20
10
0
-10
-20
-30
-40
-50
Jan 2016
Mar 2016
May 2016
Jul 2016
Sep 2016
Nov 2016
Jan 2017