NCAR | EARTH OBSERVING LABORATORY

CFACT

NCAR/EOL ISFS Site Photo Gallery

Prepared by Jacquelyn Witte (NCAR/EOL)

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR)
Earth Observing Laboratory (EOL)
In situ Sensing Facility (ISF)
Integrated Surface Flux System (ISFS)

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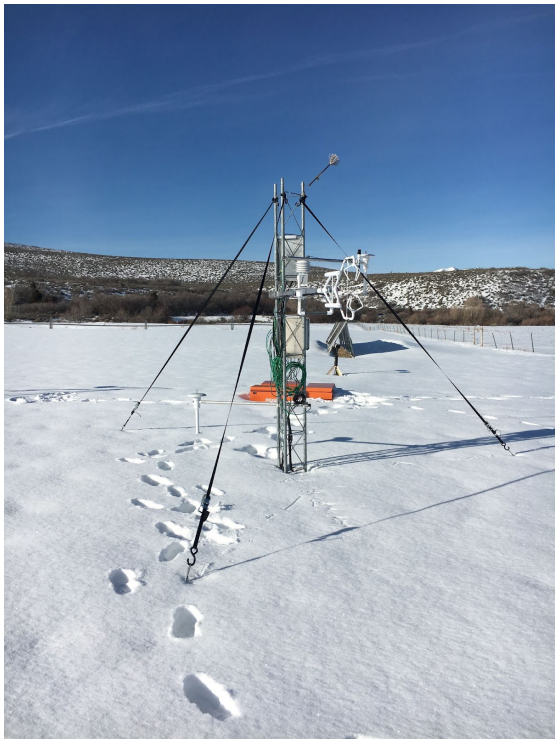

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Technicians: Dan Buonome, Anthony Weise
Data Managers/Associate Scientists: Jacquelyn Witte <jwitte@ucar.edu>, Matthew Paulus

Web References

CFACT Homepage: https://www.eol.ucar.edu/field_projects/cfact
CFACT Field Catalog: https://catalog.eol.ucar.edu/cfact
ISFS Operations during CFACT: https://www.eol.ucar.edu/content/isfs-operations-cfact
ISFS Homepage: https://www.eol.ucar.edu/node/152
Calculation of long-wave radiation:
https://www.eol.ucar.edu/content/calculation-long-wave-radiation

Citations

If these data are used for research resulting in publications or presentations, please acknowledge EOL and NSF by including the following citations, as appropriate:

CFACT Data Sets

- NCAR/EOL ISFS Team. 2022. CFACT: NCAR/EOL ISFS **5-minute** Surface Meteorology and Flux Products - winds in **theodolite** geographic and tilt corrected coordinates. Version 1.0. UCAR/NCAR - Earth Observing Laboratory. https://doi.org/10.26023/X57X-SY8Y-N50J. Accessed 21 Nov 2022.

- NCAR/EOL ISFS Team. 2022. CFACT: NCAR/EOL ISFS **5-minute** Surface Meteorology and Flux Products - winds in **planar** geographic and tilt corrected coordinates. Version 1.0. UCAR/NCAR - Earth Observing Laboratory. https://doi.org/10.26023/PSTN-4RYP-570G. Accessed 21 Nov 2022.

- NCAR/EOL ISFS Team. 2022. CFACT: NCAR/EOL ISFS **High Rate** Surface Meteorology and Flux Products - winds in **theodolite** geographic and tilt corrected coordinates. Version 1.0. UCAR/NCAR - Earth Observing Laboratory. https://doi.org/10.26023/AAHW-XWQ1-F50J. Accessed 18 Nov 2022.

- NCAR/EOL ISFS Team. 2022. CFACT: NCAR/EOL ISFS **High Rate** Surface Meteorology and Flux Products - winds in **planar** geographic and tilt corrected coordinates. Version 1.0. UCAR/NCAR - Earth Observing Laboratory. https://doi.org/10.26023/V6YS-HG3P-HJ0G. Accessed 18 Nov 2022.

The ISFS Platform

NCAR - Earth Observing Laboratory. (1990). NCAR Integrated Surface Flux System (ISFS). UCAR/NCAR - Earth Observing Laboratory. https://doi.org/10.5065/D6ZC80XJ.

Acknowledgement

Users of EOL data are expected to add the following acknowledgement to all of their publications, reports and conference papers that use those data:

“We would like to acknowledge operational, technical and scientific support provided by NCAR’s Earth Observing Laboratory, sponsored by the National Science Foundation.”

Overview

The Cold Fog Amongst Complex Terrain (CFACT) winter time fog study was conducted in Heber City Valley region, Utah and ran officially from 06 January - 24 February 2022.

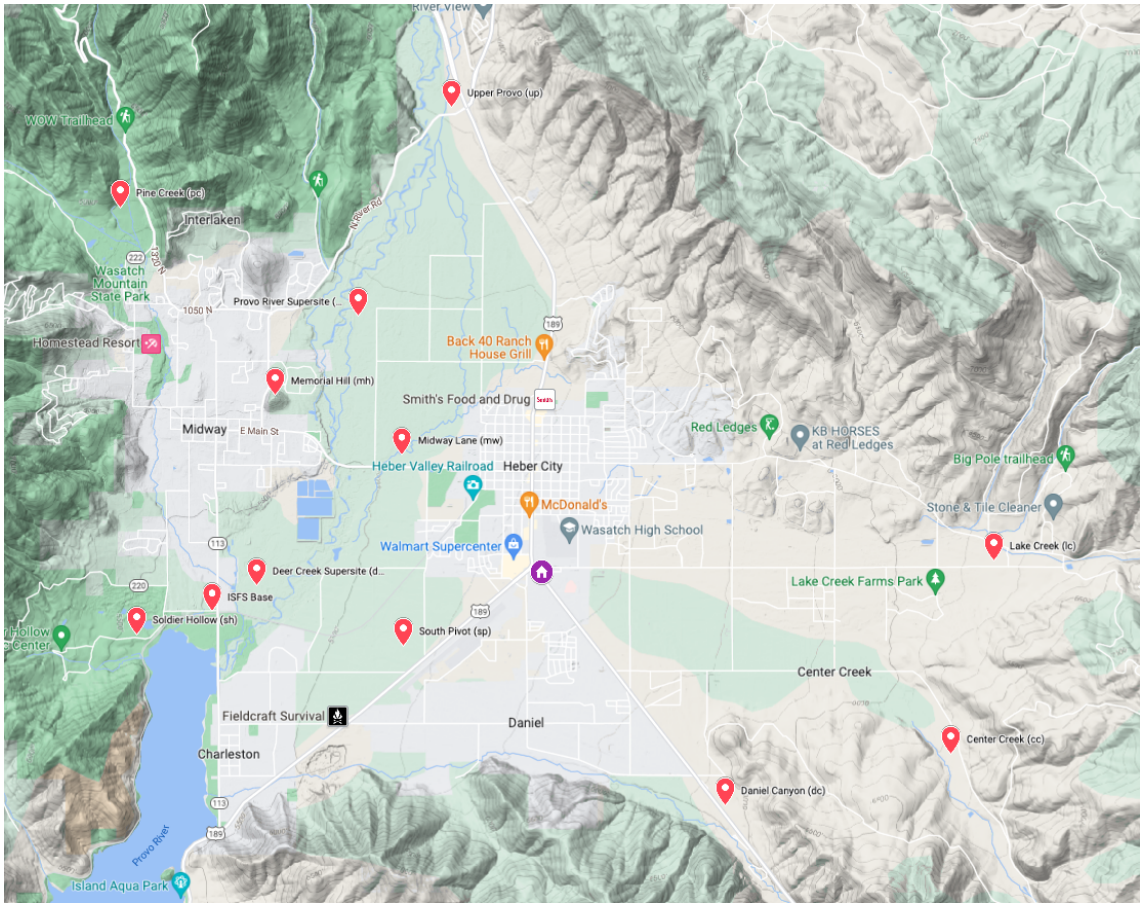
ISFS operated 11 flux towers throughout the Heber City valley region with a full suite of flux surface monitoring sensors. Towers comprised two 30 m multilevel flux profile Rohns, i.e. two supersites, and nine single low-level flux satellite stations. **Figure 1** shows a relief map rendition of the sites deployed around the Heber City valley region.

Document Description

This document is a photo gallery of the 11 towered ISFS sites. All photos were taken by ISFS staffer Isabel Suhr. Where possible the direction of the field-of-view is noted.

This is a companion document to the CFACT ISFS Data Report for the 5-minute and high rate data.

Figure 1. Google Map rendering of site locations is provided below

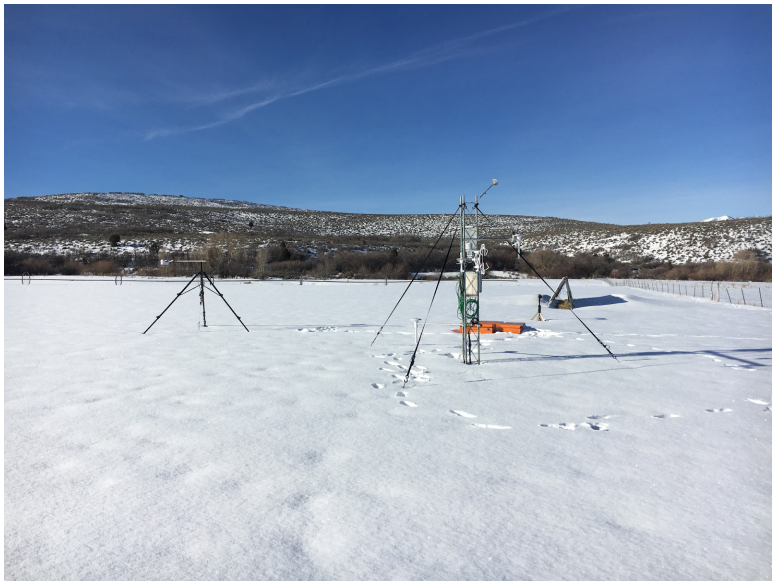


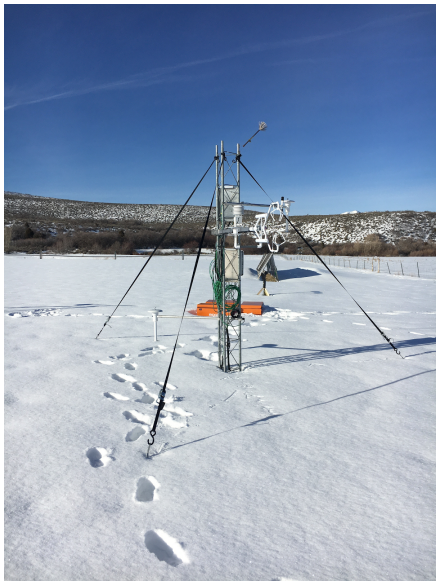
Center Creek

Photos taken 12 Jan 2022. View from the site, clockwise starting from N.

View of soil sampling plot, looking SW

Views of site, looking W



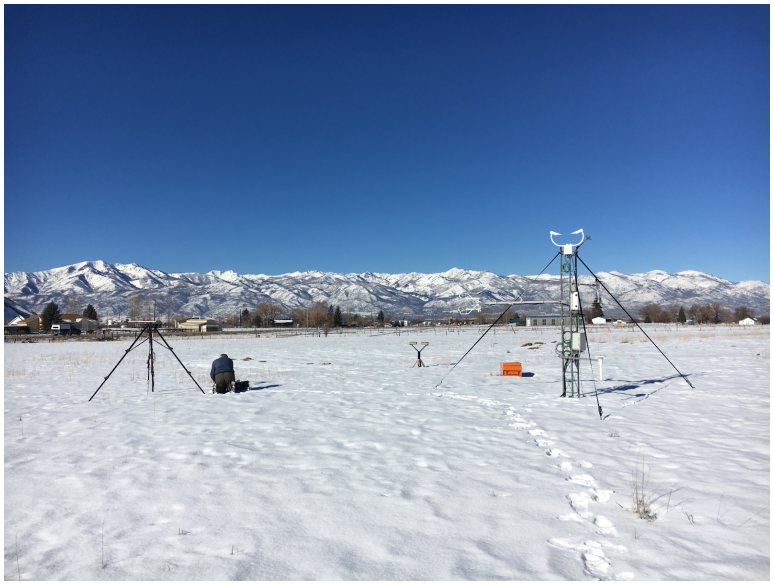


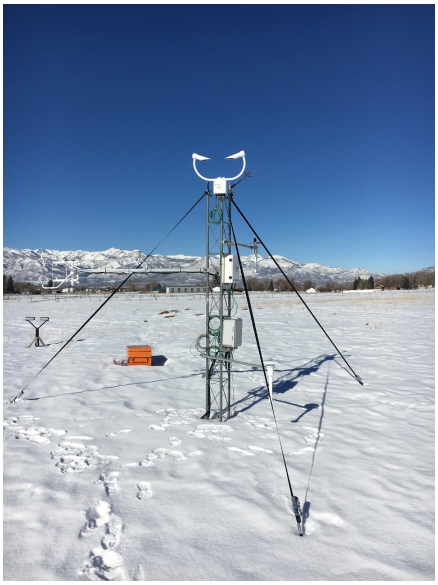
Daniel Creek

Photos taken 14 Jan 2022. View from the site clockwise.

View of soil sampling plot

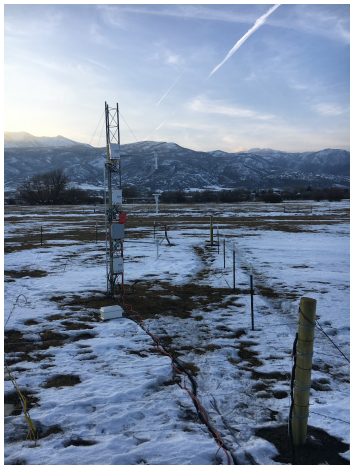
View of site, looking NW





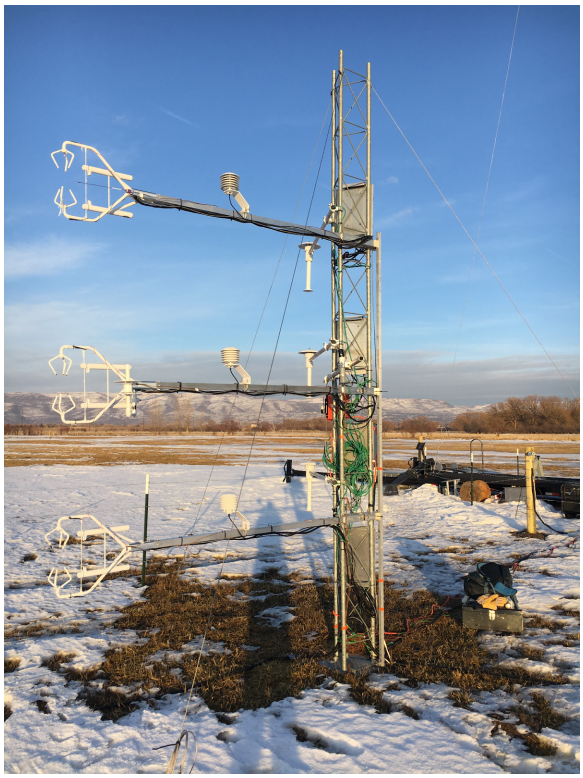
Deer Creek Supersite

Photos taken 20 Jan 2022. View from site, clockwise from N

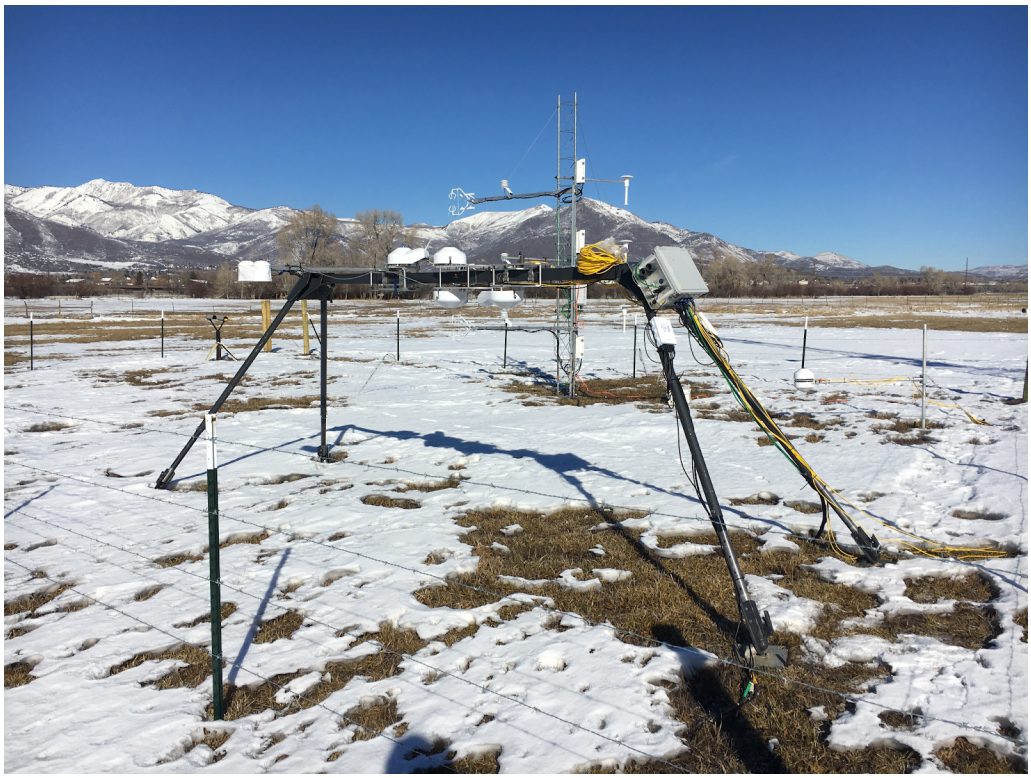


View of soil sampling plot

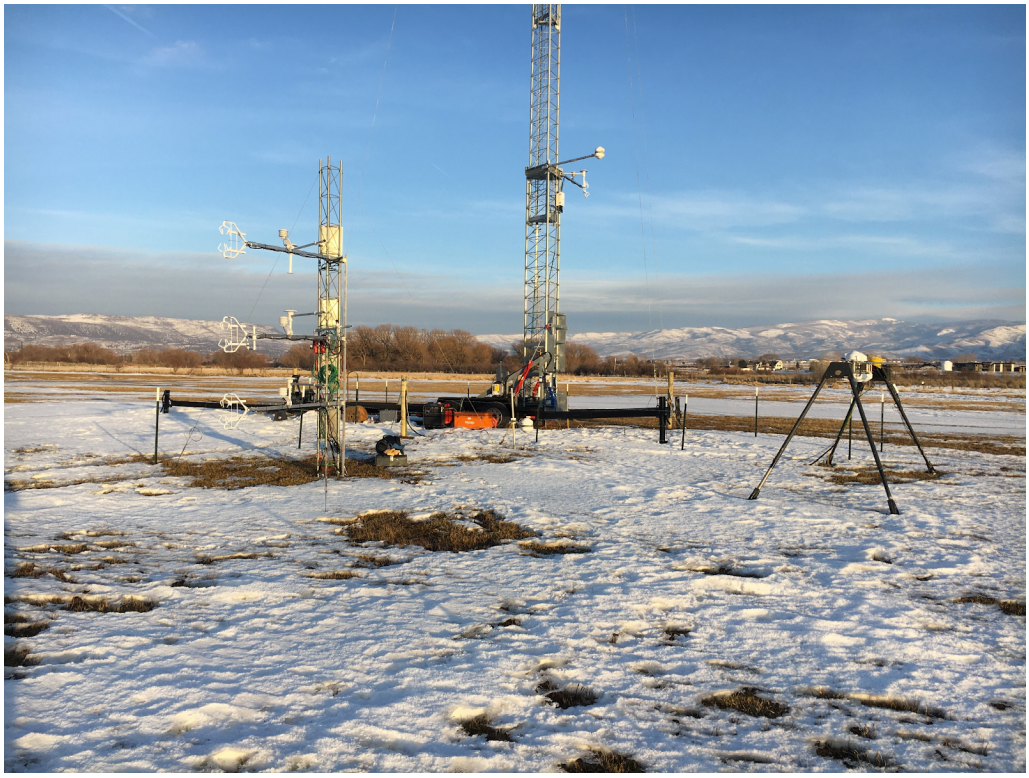
Rohn tower



Radiometer mounted on a darkhorse tripod



Site looking NW



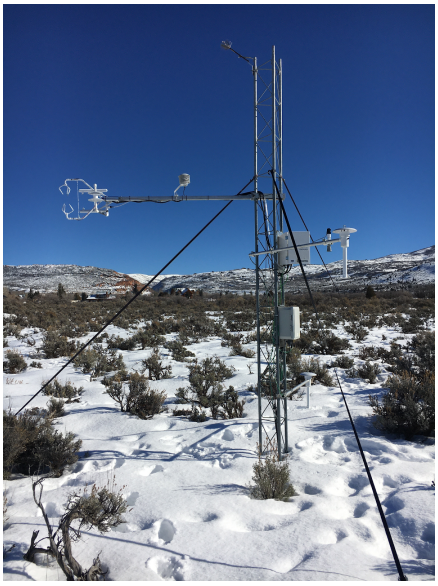
Trailer Tower looking W (photo taken 23 January 2022)

Lake Creek

Photos taken 10 Jan 2022. View from site, clockwise from N

View of soil sampling plot

View of site, looking E



Memorial Hill

Photos taken 10 Jan 2022. View from site, clockwise from N

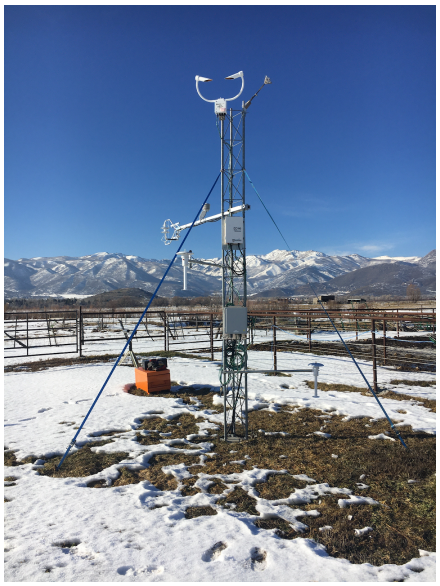
View toward site, looking W

Midway

Photos taken 15 Jan 2022. View from site, clockwise from N

View of soil sampling plot, looking SW

View toward site, looking W



Pine Canyon

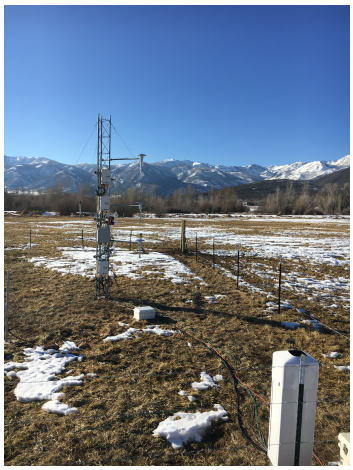
Photos taken 10 Jan 2022. View from site, clockwise from N

View of soil sampling plot, looking SW

View toward site, looking W

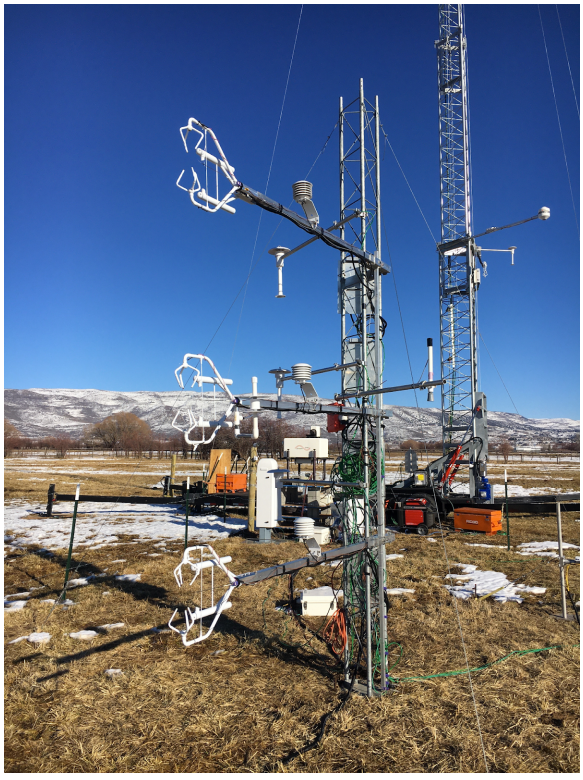
Provo River Supersite

Photos taken 22 Jan 2022. View from site, clockwise from N

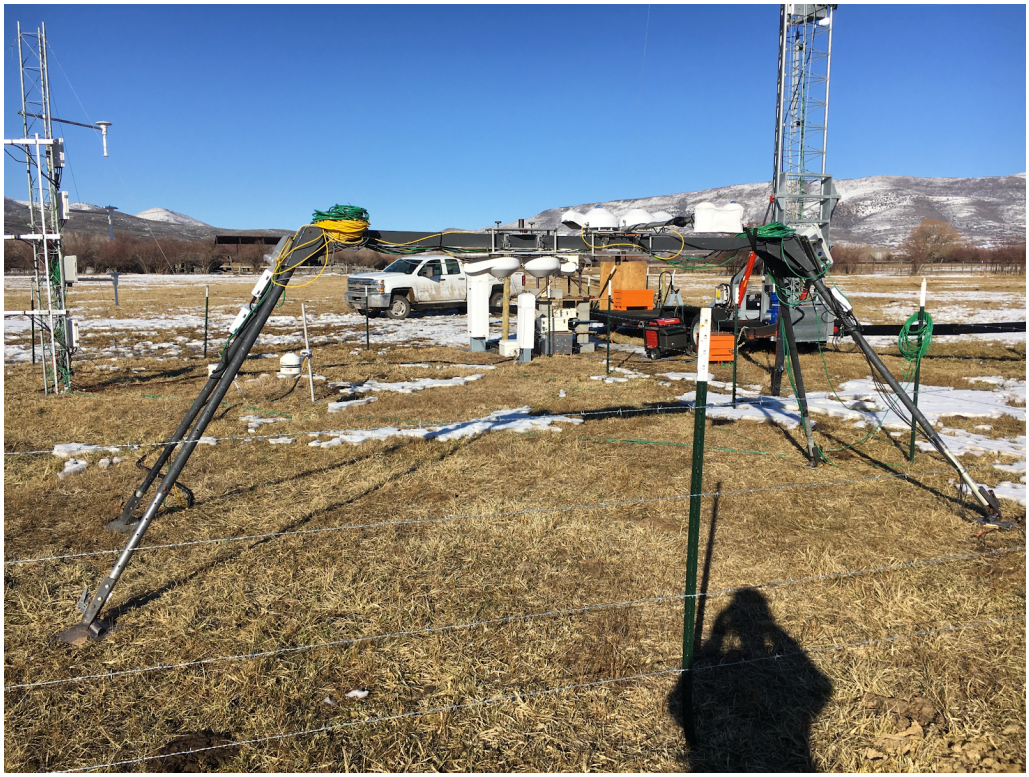


View of tower, looking NW

Rohn tower



Radiometer mounted on a darkhorse tripod



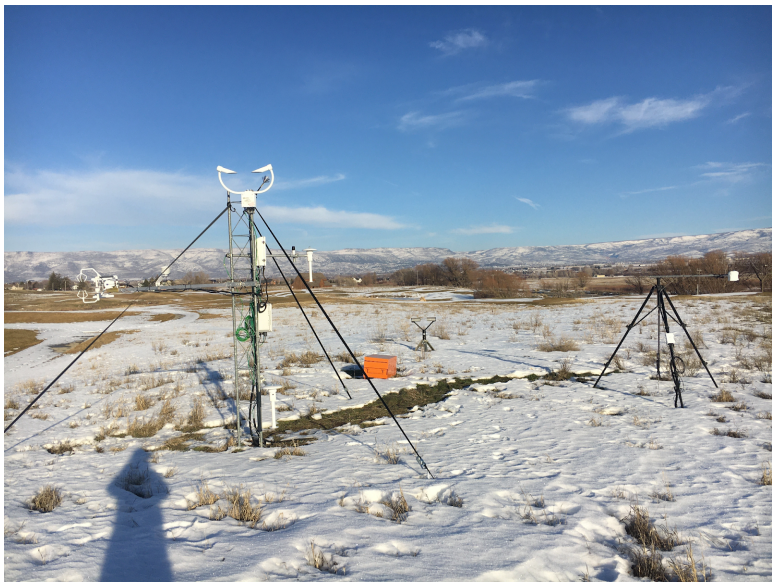
View of soil sampling plot

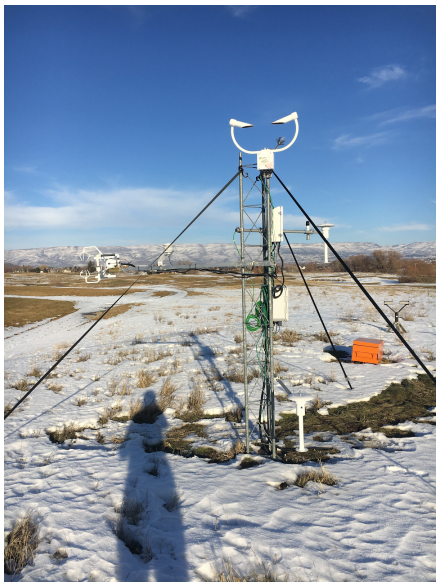
Soldier Hollow

Photos taken 15 Jan 2022. View from site, clockwise from N

View of soil sampling plot, looking SE

View toward site, looking NE



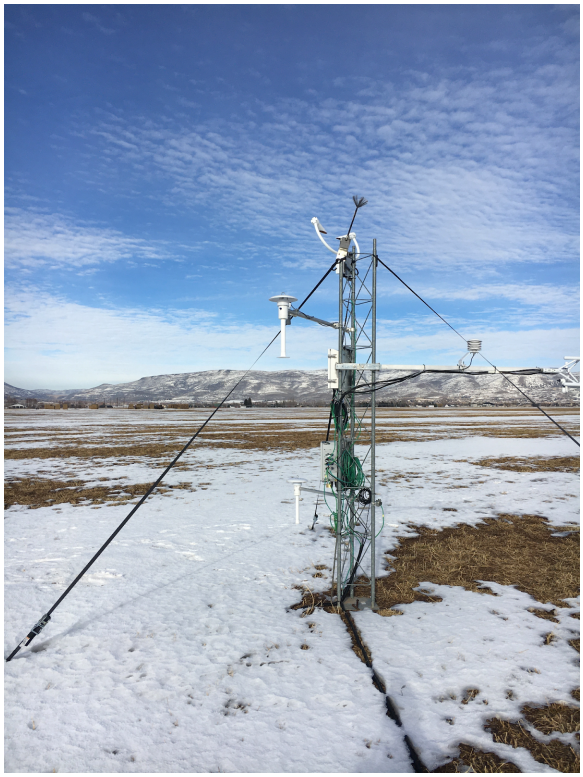


South Pivot

Photos taken 17 Jan 2022. View from site, clockwise from N

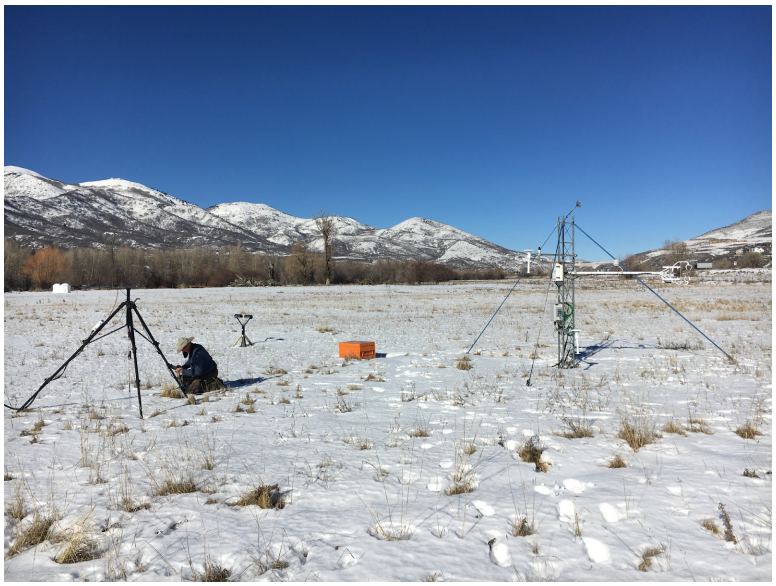
View of soil sampling plot, looking S

View toward site, looking N



Upper Provo

Photos taken 10 Jan 2022. View from site, clockwise from N

View of soil sampling plot, looking S

View toward site, looking N