NCAR/EOL Data Management Services for WINTRE-MIX

Linda Cully and Summer Stafford
WINTRE-MIX

February 1, 2022 to March 15, 2022
Project Location:
Northern New York and Southern Quebec, with a focus on the Saint Lawrence River Valley and Lake Champlain Valley

What’s New?:
- WINTRE-MIX Planning Meeting - 13/14 December 2021 - SUNY Albany
- ADVANCEGeo training - Required Code of Conduct Training (Virtual) - 14 Dec 2021
- Northeast Regional Operational Workshop 22 (NROW22) Presentation - 9 November 2021 - Albany, NY
- Internal Winter Weather Workshop Presentation - 5 November 2021 - NWS Burlington, Vermont (BVT)

Project Description:

DATA ACCESS
Data Access
Field Catalog

DATA DOCUMENTATION
WINTRE-MIX Data Policy
WINTRE-MIX Data Management Plan
Dataset Documentation (“Readme”) Requirements
DOI Guidance to Authors
EOL FDA Data Submission Instructions - Post Field Phase

SAFETY & CODES OF CONDUCT
WINTRE-MIX COVID Safety Protocols
WINTRE-MIX Code of Conduct
NSF Important Notice No. 144: Harassment
UCAR/NCAR Codes of Conduct

MEETINGS AND PRESENTATIONS
WINTRE-MIX Planning Meeting Presentations - 13/14 Dec 2021
Northeast Regional Operational Workshop 22 (NROW22) Presentation -
## NCAR/EOL WINTRE-MIX Data Archive

### SNOWIE Data Sets

<table>
<thead>
<tr>
<th>Data Set Name (Responsible Group/PIs shown in parentheses)</th>
<th>Date Posted</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aircraft</strong></td>
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<tr>
<td>Aircraft Meteorological Data Reports (AMDAR) and Aircraft Communications Addressing and Reporting System (ACARS) Data (ESRL-GSRL)</td>
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<tr>
<td>UW King Air (UWKA) Flight Level Data (1 Hz, 25 Hz, and 2D Images) [UWKA Facility]</td>
<td>2017-09-21</td>
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<tr>
<td>UW King Air Hydrometeor Size Spectra [French, Jeff; Adam Makowski; UW]</td>
<td>2017-12-22</td>
<td></td>
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<tr>
<td>UW King Air Manually Corrected Nwczorr Liquid/Total Ice Water Content [French, Jeffrey R; Dalton Reinhart; UW]</td>
<td>2021-06-02</td>
<td></td>
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<tr>
<td>UW King Air Wyoming Cloud LIDAR (WCL) Data (Level 1) [UWKA Facility]</td>
<td>2017-09-21</td>
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<tr>
<td>UW King Air Wyoming Cloud Radar (WCR) Data (Level 1 and Level 2) [UWKA Facility]</td>
<td>2017-09-21</td>
<td></td>
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<tr>
<td>WCR L2 Up-Down Merged with Vertical Velocity Estimate Improved using Scanning Winds [Gentel, Earl; Adam Triepke; Day of WV]</td>
<td>Updated 2017-06-23</td>
<td></td>
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<tr>
<td>WMI/HPC, Seeding Aircraft Flight Level Data (1 Hz) [Weeks, Courtney; Rootof; NCAR, NCAG]</td>
<td>2018-11-20</td>
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<tr>
<td><strong>Ancillary</strong></td>
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<tr>
<td>NRCS/NWCC Precipitation, Snowpack and Reservoir Basin Data Reports [NRCS NWCC]</td>
<td>2017-03-16</td>
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<tr>
<td>SNOTEL Week Site</td>
<td>2017-03-16</td>
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<tr>
<td>SNOWIE Chat Logs [NCAR-EOL]</td>
<td>2017-09-21</td>
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<tr>
<td>SNOWIE Field Catalog [NCAR-EOL]</td>
<td>2017-03-16</td>
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<tr>
<td>USDA Natural Resources Conservation Service Idaho Snow Survey Program (USDA)</td>
<td>2017-03-16</td>
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<tr>
<td><strong>Hydrology</strong></td>
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<tr>
<td>NOAA/ESRL/GSRL MADIS Hydrological Data [netCDF format] [NOAA-ESRL]</td>
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<tr>
<td><strong>Hydrology: Precipitation</strong></td>
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<tr>
<td>CU Disdrometer Data at Packer John Site [Friedrich, Intia; CU]</td>
<td>2017-09-05</td>
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- **Comprehensive list of all WINTRE-MIX Datasets:**
  - Field Collected Dataset
  - Links to Accompanying Archives (e.g., NRC, NYS Mesonet)
  - Supporting Operational Datasets

- **Long-Term Data Archive with Dataset Versioning, Password Protection, DOI Assignment.**

- **All NSF supported WINTRE-MIX datasets to be archive in the NCAR/EOL archive.**
WINTRE-MIX Data Policy

• Final QC’d Data due to NCAR/EOL WINTRE-MIX Data Archive (or to an archive as specified in the WINTRE-MIX Data Management Plan) within 6 months after the End of WINTRE-MIX Field Phase (16 Sep 2022).

• For an additional 6 months, data may be restricted to WINTRE-MIX PIs/ Participants use (until 16 Mar 2023).

• Data becomes Public Domain at 12 Months following End of WINTRE-MIX Field Phase (after 16 Mar 2023).

• All data shall be promptly provided to other WINTER-MIX investigators upon request.

• During 1 year restricted period, investigators who collected data MUST be notified first of intent to use data. At any time, proper acknowledgment should be given, including use of dataset Digital Object Identifiers (DOIs).

• Final datasets within the NCAR/EOL Field Data Archive will be assigned DOIs. Preliminary datasets are not assigned DOIs.
Summary of WINTRE-MIX Data Management at NCAR/EOL

• NCAR/EOL WINTRE-MIX Project Page
  • Plans, Policies, Data Access, Field Catalog, Codes of Conduct, Covid Protocols, Contacts, Publications, and more.

• WINTRE-MIX Google Mailing List (~60 members): wintre-mix@ucar.edu
  • Submissions are Monitored and Approved.
  • Anyone else need to be added?

• Long-Term Field Data Archive for NSF-Funded PI Instrument Datasets

• Upper Air Sounding Data Composite
  • Will include all provided field collected and operational soundings (e.g., High Resolution ASOS).
  
  • Soundings will be converted common format with common Quality Assurance and Quality Control process applied. **

• What operational sounding datasets should be included in the Data Archive? We need to know well in advance any that require Real-time data collection. Please sent requests to cully@ucar.edu

Summary

• NCAR/EOL WINTRE-MIX Project Page at https://www.eol.ucar.edu/field_projects/wintre-mix

• Send questions/comments to:
  • Linda Cully cully@ucar.edu & Summer Stafford summers@ucar.edu