



# ACTIVATE Data Team

- Field Data Repository: [www-air.larc.nasa.gov/missions/activate](http://www-air.larc.nasa.gov/missions/activate)
  - Michael Shook ([michael.shook@nasa.gov](mailto:michael.shook@nasa.gov)) – general archive/data questions
  - Gao Chen ([gao.chen@nasa.gov](mailto:gao.chen@nasa.gov)) – general archive/data questions
  - Morgan Silverman ([morgan.l.silverman@nasa.gov](mailto:morgan.l.silverman@nasa.gov)) – variable standard names
- ASDC Data Repository: <https://asdc.larc.nasa.gov/project/ACTIVATE>
  - Megan Buzanowicz ([megan.e.buzanowicz@nasa.gov](mailto:megan.e.buzanowicz@nasa.gov)) – ASDC questions
  - DOIs: <http://doi.org/10.5067/SUBORBITAL/ACTIVATE/DATA001>



# Data Submission Status

- Publication-quality data deadline: 2023-01-06
- Data submission goal: 2022-11-01
- Still to be updated (as of 2022-11-03):
  - HSRL2 and HSRL2-images
  - King Air nadir camera?
  - TraceGas (CH<sub>4</sub>, CO<sub>2</sub>, CO, O<sub>3</sub>) for 2022-01-11 and 2022-01-12
  - CAS, CIP, FCDP, and 2DS for Summer 2022
  - PILS for Summer 2022
  - LegFlags
  - AMS
  - Cloud water composition



# Time Syncing

- Publication-quality (R0+) data must be time synced to the platform time standard (DLH for Falcon and GPS for King Air)
- Variation of a few seconds is generally acceptable (and can be refined in subsequent revisions)
- No post-submission time alignment is done by the data management team, merge process, or ASDC DAAC



# Merge Update Status

- 2020:
  - Project merge (revision R0) publicly available and updated as of 2021-05-03
    - May not include updates to LegFlags, fast WINDS, 2DS, and a few DLH-20z and TraceGas-CH4 files
  - NetCDF merges created based on ICARTT R0 project merges
  - Online merge tool publicly available
- 2021
  - Project merge (revision RA) not publicly available; updates pending anticipated data revisions
  - NetCDF merges will be generated after new ICARTT project merges are created
  - Online merge tool password-protected
- 2022:
  - No project merge yet
  - NetCDF merges created based on ICARTT R0 project merges
  - Online merge tool password-protected
- All files within a dataID must use the same variable names/variable list



# ACTIVATE 2020 NetCDF Merge files

- Sanja created and archived .nc merge files for 2020 deployments
  - ✓ Converted from .ict merge files
  - ✓ Used CF coordinate system (i.e., time, lat, lon)
  - ✓ Attached data variables to the “time” scale
  - ✓ Used CF global and variable attributes whenever applicable
  - ✓ Included all PI .ict file headers as subgroup attributes
  - ✓ Use standard units for all data variables: <http://codes.wmo.int/wmdr/unit>
  - ✓ Standard names and long names (descriptions) come from the PI files
- Plan to create .nc merge files for 2021 and 2022 deployments
- Need feedback from modeling community