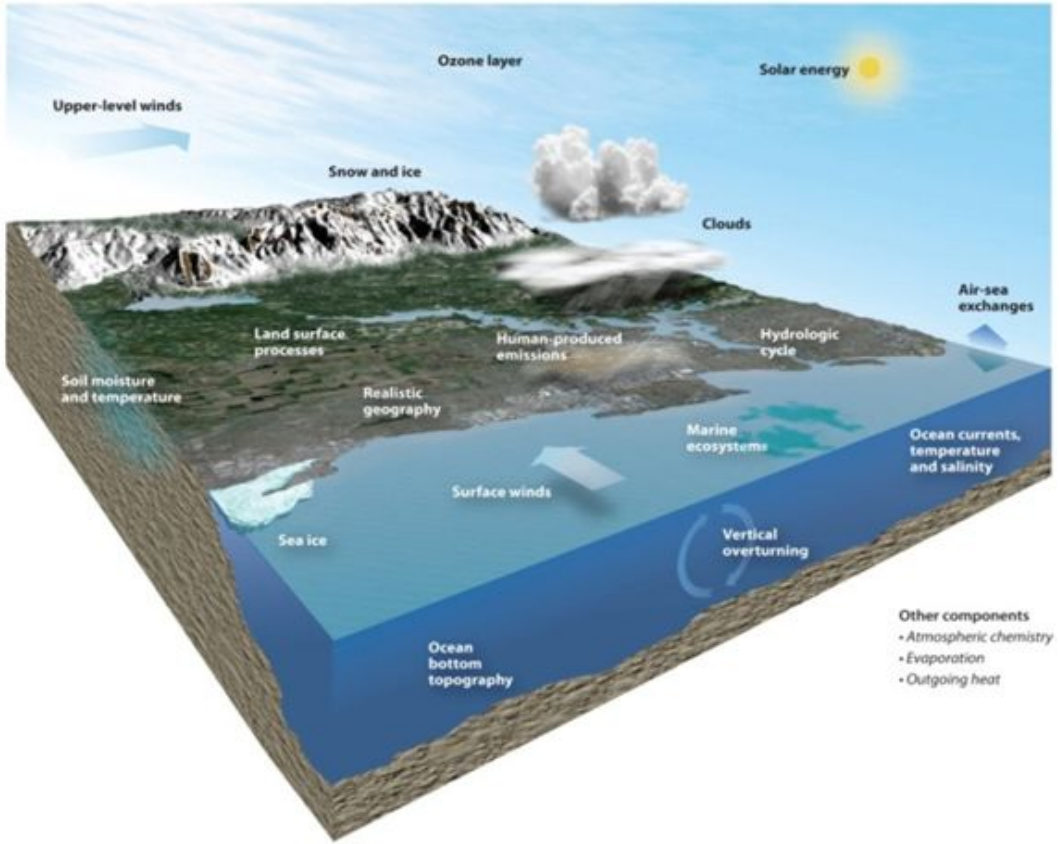
Using Instrument DOIs to Track Citations

Aug. 21, 2024

http://n2t.net/ark:/85065/d7tf02g5

NSF NCAR & UCAR

- NSF NCAR is a Federally Funded Research and Development Center
- UCAR manages NSF NCAR via a Cooperative Agreement with the NSF
- UCAR has 120+ member colleges and universities
- Provide facilities and community coordination, and conduct research
- ~1200 employees



Topics

- DOI assignment
- Connecting instrument DOIs to related literature
- Leveraging citation services

http://n2t.net/ark:/85065/d7qc01pt

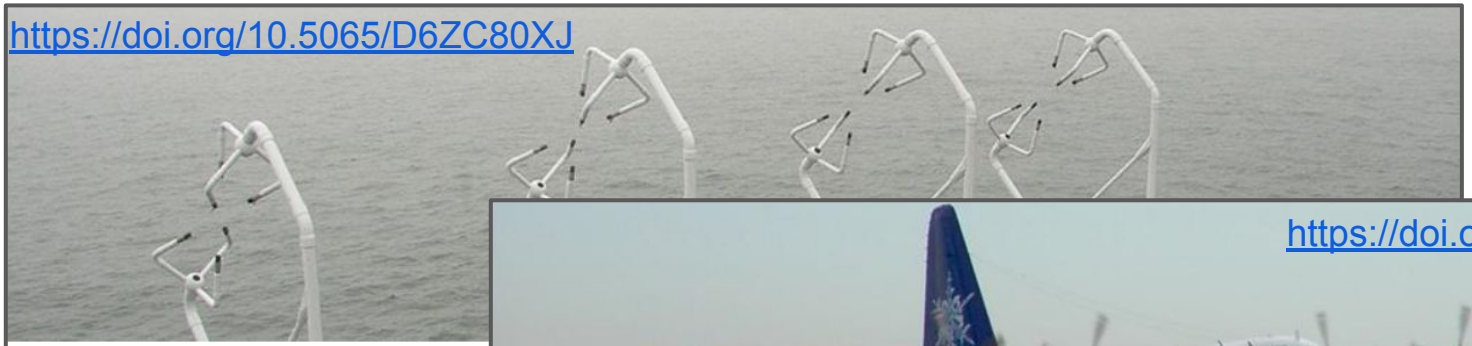
PID Assignment

UCAR has been assigning Digital Object Identifiers (DOIs) since 2012 (numbers as of 8/7/2024)

- Dataset - 10,319
- Text - 1,238
- Software - 43
- **Physical Object - 25**
- **Service - 5**
- Collection - 5
- Model - 2
- Other - 2
- Computational notebook - 1
- Event - 1
- Interactive resource - 1

PIDs for Facilities and Instruments

https://doi.org/10.5065/D6ZC80XJ



Integrated Surface Flux Syste

ISFS DESCRIPTION

https://doi.org/10.5065/D6WM1BG0

NSF/NCAR C-130

Aircraft Overview

The Lockheed C-130 "Hercules" aircraft is a four-engine, medium-size utility aircraft that has proven to be one of the most well-known and versatile aircraft ever built. The NSF/NCAR aircraft is a model EC-130Q, similar to the more common model C-130H model except for electrical and air-conditioning modifications. The aircraft is an all-metal, pressurized, high-wing monoplane powered by four Allison T-56- A-15 turboprop engines. It is equipped with dual-wheel, tricycle landing gear with the main gear wheels arranged in tandem and the nose gear arranged side-by-side. The C-130, maintained and

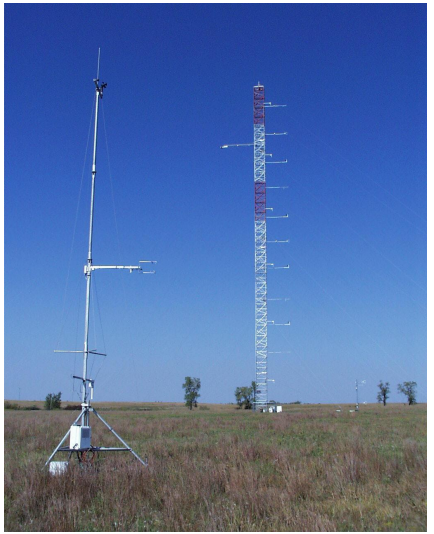
C-130

NSF/NCAR C-130

NSF/NCAR C-130 Investigator Handbook
Airborne Instrumentation
NSF/NCAR C-130 Request Guidance
Aircraft Schedules
Request the NSF/NCAR C-130
Contact RAF

Quasi-Idealized Numerical Simulations of Processes Involved in Orogenic Convection Initiation over the Sierras de Córdoba

Articles -> Related Resources



Linking scientific papers to supporting data sets, software, and other resources

- Can we collect and display linkages to other resources or information?
- How best to make this information useful and understandable for users?
- How to do this in a tractable and sustainable way, e.g. automated as much as possible without much maintenance?

PID Linking - Workflow

- Parse PDFs of papers in Library institutional repository for DOIs
- Query DataCite metadata store to determine which DOIs are for data sets, software, facilities and services
- Add metadata for data sets and/or software to OpenSky records as “Related” information
- Display on paper landing pages

SCALING LAWS FOR THE LONGITUDINAL STRUCTURE FUNCTION IN THE ATMOSPHERIC SURFACE LAYER

File Viewed:
56 times since 2019-01-01

DOWNLOAD PDF

In collections

- Journal Articles

Supporting Service or Object

- NCAR Integrated Surface Flux System (ISFS)

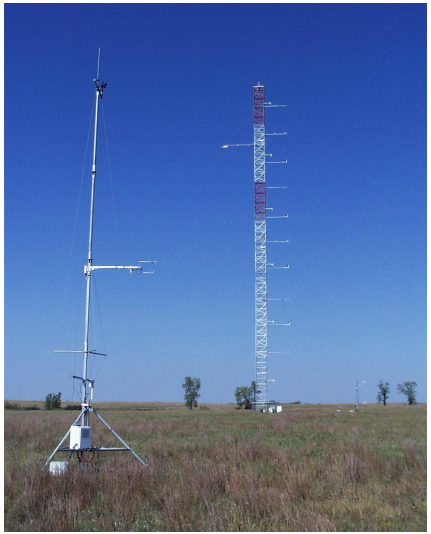
Abstract

Scaling laws for the longitudinal structure function in the atmospheric surface layer (ASL) are studied using dimensional analysis and matched asymptotics. Theoretical predictions show that the logarithmic scaling for the scales larger than those of the inertial subrange recently proposed for neu... Show more

Published Version: http://dx.doi.org/10.1175/JAS-D-16-0228.1

Details

Author(s)	Marcelo Chamecki Nelson L. Dias Scott T. Salesky Ying Pan-NCAR/UCAR
Title	Scaling laws for the longitudinal structure function in the atmospheric surface layer
Publication Title	Journal of the Atmospheric Sciences
Date	2017-04
Volume	74
Issue	4
Pages	1127-1147
Resource Type	article
Peer Review	Refereed



Related Resources -> Articles

Quasi-Idealized Numerical Simulations of Processes Involved in Orogenic Convection Initiation over the Sierras de Córdoba

https://api.rda.ucar.edu/citations/

UCAR Citation API Guide

This API allows users to retrieve citation information for UCAR assets that have been assigned a Digital Object Identifier (DOI). Responses are returned in Javascript Object Notation (JSON) by default, with the possibility of other formats being made available in the future. Filtering of results via query parameters is another planned future implementation.

This guide describes the various operations of the API and provides sample API calls and responses.

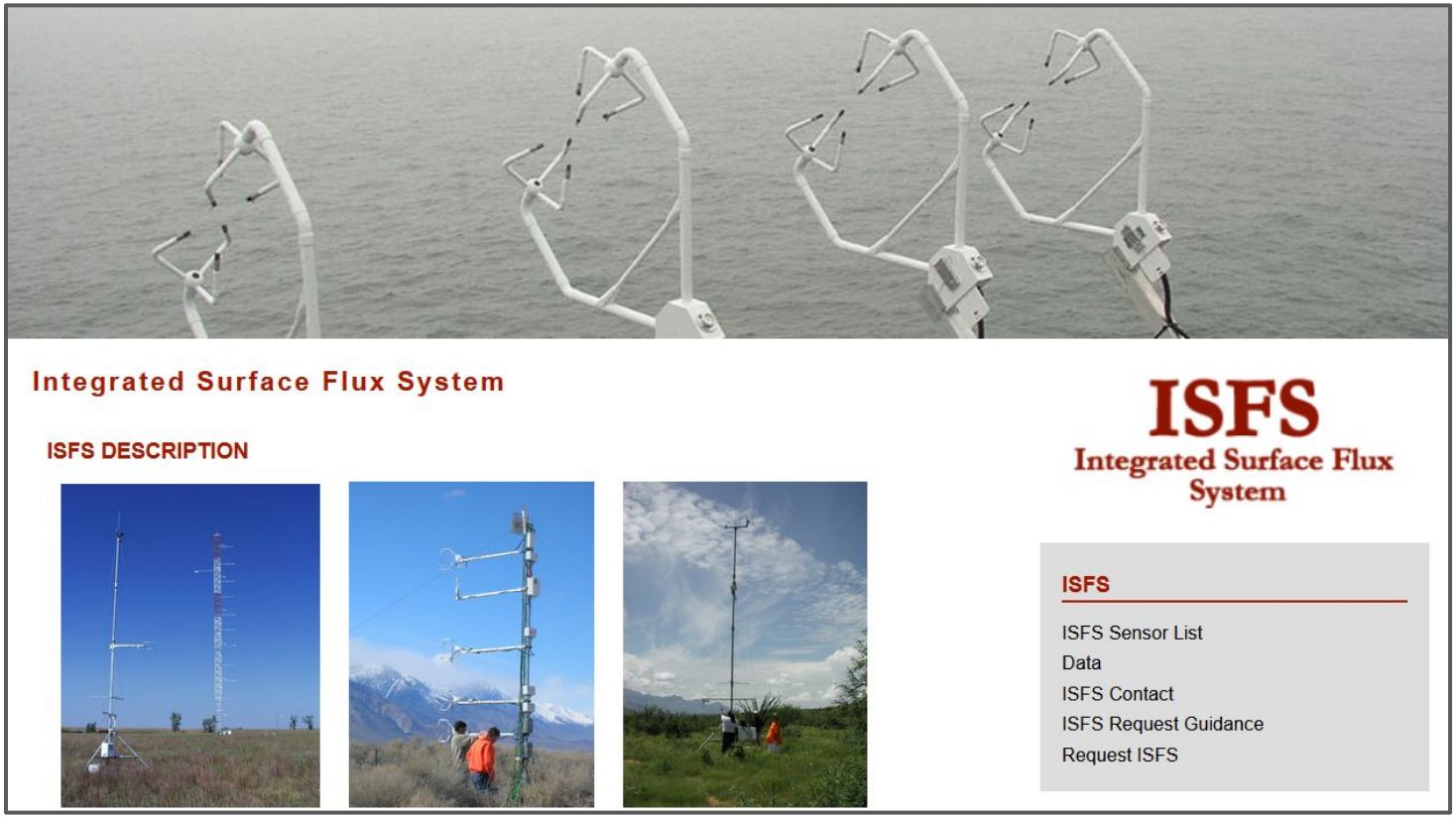
- Retrieve a single DOI
- Retrieve the list of DOI minters
- Retrieve a minter
- Retrieve the list of publishers
- General options
- Errors
- Output formats

Tracking Citations of UCAR Assets Using DOIs

- Sources of citation information
  - Started with CrossRef
  - Added Scopus and Web of Science later
  - Investigating Google Scholar

- Citation finder tool runs as a cron 2x/month
- https://github.com/NCAR/rda-citefind
- PostgreSQL database on back-end
  - DOI of citing work -> DOI asset (counts)
  - Publication info -> DOI of citing work (bibliographies)

https://doi.org/10.5065/D6ZC80XJ



Total - 13

- 2017 1
- 2018 3
- 2019 1
- 2020 3
- 2021 1
- 2022 2
- 2023 1
- 2024 1

Thank You

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http://n2t.net/ark:/85065/d7t43z88