

# Probabilistic analysis of ambiguities in radar echo direction of arrival from meteors

**SND-ID:** 2020-145-1. **Version:** 1. **DOI:** <https://doi.org/10.5878/hcdz-2j74>

## Download data

DOA\_ambiguity\_simulations.zip (247.43 MB)

readme.txt (3.29 KB)

## Associated documentation

readme.txt (3.29 KB)

## Download all files

2020-145-1-1.zip (~247.44 MB)

## Citation

Kastinen, D., & Kero, J. (2020) Probabilistic analysis of ambiguities in radar echo direction of arrival from meteors (Version 1) [Data set]. Swedish Institute of Space Physics. Available at: <https://doi.org/10.5878/hcdz-2j74>

## Creator/Principal investigator(s)

[Daniel Kastinen](#) - Swedish Institute of Space Physics, Solar terrestrial and atmospheric research programme

Johan Kero - Swedish Institute of Space Physics, Solar terrestrial and atmospheric research programme

## Research principal

[Swedish Institute of Space Physics](#) - Solar terrestrial and atmospheric research programme

## Description

In this study we examined how the direction of arrival determination of meteor radar echoes behaved in collection of interferometric radar system. These methods are general and can be applied on any system, we chose five radar systems currently used to perform meteor studies. Specifically we examine when and if the direction of arrival is of ambiguous and with what probability it occurs as a function of signal to noise ratio.

See the readme file for description of the content.

## Data contains personal data

No

## Language

[English](#)

## Time period(s) investigated

2020 - 2020

## **Data format / data structure**

[Numeric](#)

[Video](#)

## **Geographic spread**

Geographic location: [Sweden](#), [Antarctica](#), [Finland](#), [Japan](#), [Norway](#)

Geographic description: The radar systems examined are located in Norway, Finland, Sweden, Japan, South pole and many more places.

## **Responsible department/unit**

Solar terrestrial and atmospheric research programme

## **Research area**

[Meteorology and atmospheric sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

## **Keywords**

[Radar](#), [Meteor](#), [Interferometry](#)

## **Accessibility level**

Access to data through SND

Data are freely accessible

## **Use of data**

[Things to consider when using data shared through SND](#)

## **License**

[CC BY-SA 4.0](#)

## **Versions**

Version 1. 2020-11-11

## **Contact for questions about the data**

Daniel Kastinen

[daniel.kastinen@irf.se](mailto:daniel.kastinen@irf.se)

## **Related research data in SND's catalogue**

[Resolving ambiguous direction of arrival of weak meteor radar trail echoes](#)

## **Download metadata**

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**Published:** 2020-11-11