

Data Paper

Hori E. Masatake, Jun Inoue. Upper Atmospheric Soundings in Ice Base Cape Baranova during the YOPP Special Observing Period. Polar Data Journal. 2020, 4, p.55-60.

<https://doi.org/10.20575/00000013>

(Received 12/25/2019; Accepted 3/23/2020)

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1st submission

Editor Start Date: 1/7/2020

Editor Stop Date: 3/22/2020

Reviewer #1 (1/24/2020 – 2/13/2020)

Reviewer #2 (1/8/2020 – 3/22/2020)

Editor Comments to the Author:

This data is valuable for Arctic meteorological research. Publishing the information of it on the PDJ is appropriate for use by many researchers. We have received some helpful comments from reviewers. Revise the manuscript at the discretion of the authors and then, I suggest it to be accepted.

Reviewer #1: Kizu Nobuhiko

In Russia where radiosonde data is missing or unstable, it is very meaningful to carrying out observations using RS92 continuously.

I would like you to proceed with the forecast analysis, and publish it.

The RS92 is also reference radiosonde for international radiosonde comparisons. On the other hand, the characteristics of Russian radiosondes data quality which launched routinely are not well understood.

As written in your paper, please compare with Russian original radiosonde data which launched nearby.

The RS92 is a high-performance radiosonde that is also used for climate change. At the GRUAN (GCOS Reference Upper Air Network), the RS92 data observed at each launch site of GRUAN has been converted to NetCDF and published by NCEI (NOAA), it might be useful and refer it.

Corrected according to above comments

Reviewer #2: Anonymous

This paper provides concise explanations of the twice daily sounding observation data conducted at the research station Ice Base Cape Baranova during YOPP SOPs. The descriptions are brief and to the point, so that we have only one comment:

- (P. 2, L. 16) "Most sounding reaches the upper troposphere with 103 soundings reaching 10hPa in SOP1 and 169 soundings for SOP2 (Figure2)." We consider the level of 10hPa is in the middle stratosphere, not the upper troposphere.

Corrected according to above comments

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Editorial Office's noted

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Original Data

Jun Inoue, Masatake Hori. Archive of standard meteorological data from Research station "Ice Base Cape Baranova" for YOPP SOP1 and SOP2, 1.00, Arctic Data archive System (ADS), Japan, 2019. <https://doi.org/10.17592/001.2019110701>