



Contributions in Magazines

D7.3 – CiM

PNOWWA

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PNOWWA

PROBABILISTIC NOWCASTING OF WINTER WEATHER FOR AIRPORTS

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Abstract

This document describes the PNOWWA contributions in magazines. There were two magazine articles submitted during the project. The first article was "Snow cannons and sea monsters – the lake effect snow", IImailu by Elena Saltikoff et. al. and the second one "Orographic enhancement of snowfall" by Elena Saltikoff, Martin Hagen, et. al.

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Abbreviations

ATM Air Traffic Management
PNOWWA Probabilistic Nowcasting of Winter Weather for Airports

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Executive Summary

PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports – is a research project developing methods to support the Air Traffic Management (ATM) challenged by winter weather. In winter 2017, PNOWWA organized a real-time demonstration campaign providing to selected end-users very short-term (0-3h) probabilistic winter weather forecasts in 15 minute time resolution. The nowcasts are based on extrapolation of the movement of weather radar echoes, and ensembles are generated by adding stochastic perturbations.

There were two magazine articles submitted during the project. PNOWWA project dissemination including the peer reviewed publications are included in the project deliverables D2.4, D3.6, D4.6, D5.4, D6.3 and D7.4.

Introduction

The article “Snow cannons and sea monsters – the lake effect snow”, Ilmailu by Elena Saltikoff et. al. is published on Ilmailu webpages. First the article is only available for subscribers of the eprinted version on 13th of March, and in printed version in May 2018. The article “Orographic enhancement of snowfall” by Elena Saltikoff, Martin Hagen, et. al. was submitted in (Open Access journal) Geophysica, where the deadline of the special issue is 31st March 2018.

PNOWWA project dissemination including peer reviewed publications are included in the project deliverables D2.4, D3.6, D4.6, D5.4, D6.3 and D7.4.

1 Articles in Magazines

1. “Snow cannons and sea monsters – the lake effect snow”, Ilmailu, Elena Saltikoff et. al.

The article was submitted in Ilmailu. The article is published on Ilmailu webpages. First the article is only available for subscribers of the eprinted version on 13th of March, and in printed version in May 2018. After publication the manuscript will be released and published in the frame of the PNOWWA project either in PNOWWA webpage or by providing the direct link to the publication.

2. “Orographic enhancement of snowfall”, Geophysica, by Elena Saltikoff, Martin Hagen, et. al.

This paper shows that lake effects along the coastlines or flow within the proximity of mountains degrade the forecast quality and the reliable lead time for nowcasts is shorter than for situations which are not affected by heterogeneous terrain.

Conclusions

As the nature of the PNOWWA project is exploratory research and therefore it was difficult to predict the exploitability of the results. One article in Ilmailu magazine and one in Geophysica magazine was good but the consortium seeks possibility to exploit project results in other magazines in the post-project-phase and publish articles and/or links to the articles in PNOWWA website. The overall dissemination, excluding the publications in magazines, was good. PNOWWA project dissemination including the peer reviewed publications are included in the project deliverables D2.4, D3.6, D4.6, D5.4, D6.3 and D7.4.

References

None

