



WP4 List of scientific publications

D4.6 - LoSP

PNOWWA

Grant:	699221
Call:	H2020-SESAR-2015-1
Topic:	Sesar-04-2015
Consortium coordinator:	Finnish Meteorological Institute
Edition date:	[7 March 2018]
Edition:	[00.01.00]
Dissemination level:	PUBLIC (PU)

Founding Members



Authoring & Approval

Authors of the document

Name/Beneficiary	Position/Title	Date
Elena Saltikoff / FMI	Science and WP Manager	6.3.2018
Heikki Juntti / FMI	Quality Manager	6.3.2018
Martin Hagen / DLR	WP 3 leader	6.3.2018
Rudolf Kaltenboeck / AUC	WP 4 leader	6.3.2018
Thomas Gerz / DLR	WP 7 leader	6.3.2018

Reviewers internal to the project

Name/Beneficiary	Position/Title	Date
Harri Haukka / FMI	Project Manager	7.3.2018
Elena Saltikoff / FMI	Science and WP Manager	7.3.2018

Approved for submission to the SJU By — Representatives of beneficiaries involved in the project

Name/Beneficiary	Position/Title	Date
Ari-Matti Harri / FMI	Project Coordinator	7.3.2018
Harri Haukka / FMI	Project Manager	7.3.2018
Elena Saltikoff / FMI	Science and WP Manager	7.3.2018
Martin Hagen / DLR	WP 3 leader	7.3.2018
Rudolf Kaltenboeck / AUC	WP 4 leader	7.3.2018
Thomas Gerz / DLR	WP 7 leader	7.3.2018

Rejected By - Representatives of beneficiaries involved in the project

Name/Beneficiary	Position/Title	Date
------------------	----------------	------

Document History

Edition	Date	Status	Author	Justification
00.01.00	7.3.2018	First release	Elena Saltikoff Harri Haukka	

PNOWWA

PROBABILISTIC NOWCASTING OF WINTER WEATHER FOR AIRPORTS

This document is part of a project that has received funding from the SESAR Joint Undertaking under grant agreement No 699221 under European Union's Horizon 2020 research and innovation programme.



Abstract

This document gathers together the WP4 list of scientific publications. There 4 were peer-reviewed conference papers, 2 presentations and 4 other dissemination activities (e.g. webinar and surveys).

Table of Contents

- Abbreviations* 5
- List of Figures*..... 6
- List of Tables*..... 7
- Executive Summary*..... 8
- Introduction*..... 9
- 1 Peer-reviewed journal papers*..... 10
- 2 Magazines* 11
- 3 Thesis* 12
- 4 Peer-reviewed conference papers*..... 13
- 5 Conference papers* 14
- 6 Presentations*..... 15
- 7 Other dissemination*..... 16
- 8 Conclusions*..... 17
- References*..... 18



Abbreviations

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

List of Figures

None

List of Tables

None

Executive Summary

The Single European Sky Initiative (SESAR) coordinates all the European Union R&D activities concerning Air Traffic Management (ATM). The SESAR Exploratory Research projects are the first research instruments to tackle a certain ATM discipline. PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports – is a SESAR exploratory research project developing methods to support the Air Traffic Management (ATM) challenged by winter weather.

Introduction

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. This includes developing new probabilistic radar-based nowcasting methods and tools, assessment of the potential of such ATM tools, and demonstrating the effect of those tools at airports during winter weather conditions. In the winter 2017, PNOWWA organized a real-time demonstration campaign providing to selected end-users very short-term (0-3h nowcast) probabilistic winter weather forecasts in 15min time resolution based on extrapolation of the movement of weather radar echoes.

This document brings together the list of publications to be collected within the deliverable 4.6. These publications are published either in peer-reviewed journals, in the outcome of scientific webinars and meetings or in scientific conference proceedings.

1 Peer-reviewed journal papers

- None

2 Magazines

- None

3 Thesis

- None

4 Peer-reviewed conference papers

1. Kaltenboeck R. et al., 2017, PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports, *the 38th AMS Radar Conference*, 28 August – 1 September 2017 Chicago, USA.
2. Kaltenboeck R., et al., 2017, PNOWWA – Probabilistic Nowcasting of Winter Weather for Airports. 2nd European Nowcasting Conference, 3-5. May 2017, Offenbach, Germany
3. Kaltenboeck R. et al., accepted, PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports: Demonstration campaigns and airport stakeholder interactions. European Geosciences Union General Assembly 2018, 8–13 April 2018, Vienna, Austria.
4. Harri, A.-M., 2016, PNOWWA - Probabilistic Nowcasting of Winter Weather for Airports, Sixth SESAR Innovation Days, November, 8-10, Delft, Netherlands.

5 Conference papers

1. None

6 Presentations

1. Saltikoff E., Juntti H. and Kaltenboeck, 2017, Snow forecasts for airports, 7th National Pyry-seminar organized together with EU:n COST ES1404/HARMOSNOW, November 1, Helsinki, Finland.
2. Kaltenboeck, R. et al. 2017, Probability of snow nowcasting for airports, Seventh SESAR Innovation Days, November, 28-30, Belgrade, Serbia.

7 Other dissemination

1. Survey of user needs and use of winter precipitation, June 21 – September 22, 2016.
2. PNOWWA stakeholder workshop – Vienna airport, 4th October 2016
 - R.Kaltenboeck and H.Puempel: WP4 - PNOWWA Probabilistic Nowcasting of Winter Weather for Airports
3. Austro Control Forecaster Training, 13th November 2017:
 - R.Kaltenboeck: PNOWWA Probabilistic Nowcasting of Winter Weather for Airports Demonstration campaign 2.
4. PNOWWA project and stakeholder workshop – Vienna, 27-28th February 2018 - scheduled
 - H.Jutti et al., PNOWWA:
 - Results of the demonstration and verification.
 - Summary of what we learned from stakeholders in Finland. Potential for follow-up projects.
 - R.Kaltenboeck et al.,
 - PNOWWA Overview.
 - PNOWWA: Surveys and interviews

8 Conclusions

PNOWWA project WP4 dissemination achieved its goals mainly as planned. Some planned articles were submitted later than planned and some were postponed for future or cancelled. PNOWWA was visible e.g. in SID's, AMS and EGU receiving a good reception from the ATM.

References

- None