

Hello Bonjour



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World Meteorological Organization

Organisation météorologique mondiale

WORLD METEOROLOGICAL ORGANIZATION AFRICAN CONFERENCE ON METEOROLOGY FOR AVIATION (ACMA -2018)

28 to 30 November 2018

Dakar, Senegal



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ENHANCING QUALITY AND COST EFFICIENCY OF SERVICES THROUGH CROSS-BORDER COLLABORATION AT A REGIONAL AND SUB-REGIONAL SCALE

NAMCON and EUMETNET

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NAMCON Consortium Manager

EUMETNET WG AVIMET Chair



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EUMETNET

Aviation Support Programme

Some of the key tasks are:

- Representing the aviation MET community at various European institutions, industry bodies, and stakeholder and technical groups, undertaking lobbying and reporting developments to our members
- Coordinating R&D and deployment activities such as SESAR/SWIM
- Identifying new opportunities for collaborative research and service provision for all our Members
- Fostering collaborative approach between Members for post-deployment service provision and identifying risks and issues that may require change management and mitigation.



EUMETNET is a grouping of 36 European National Meteorological Services that provides a framework to organise cooperative programmes between its members in meteorology and related fields. These activities include observing systems, data processing, basic forecasting products, research, development and training.



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The State of Things in Europe

- In 67% of the 36 EUMETNET member countries the NMHS organization provides the MWO function, in 25% this is the ATS organization
- In only 19% of members all MWO, AMO and AMS functions are being provided by the NMHS organization
- There are many MET ANSPs with varying responsibilities and differing cost structures
- ECMWF (intergovernmental organisation), DWD, Météo-France and UK Met Office run global models, some other national MET services run limited area models



Green – MET ANSP = NMHS organization

Blue – MET ANSP = ATS organization

Red – MET ANSP = mix



Coordinating European MET

- Aviation Advisory Council (AVAC)
 - Executive level participation in biannual meetings
 - Decides on strategic direction, aviation support programme and AVIMET priorities
 - Reports to the EUMETNET Assembly
- Working Group AVIMET
 - Expert level cooperation, exchange of information and other tasks as given from AVAC
 - Meeting annually at ICAO EUR HQ ahead of METG
- Consortia
 - MET Alliance (8 members: Austria, Belgium, Ireland, Luxembourg, the Netherlands, Switzerland, Germany and France)
 - NAMCON (7 members: Denmark, Estonia, Finland, Iceland, Latvia, Norway and Sweden)

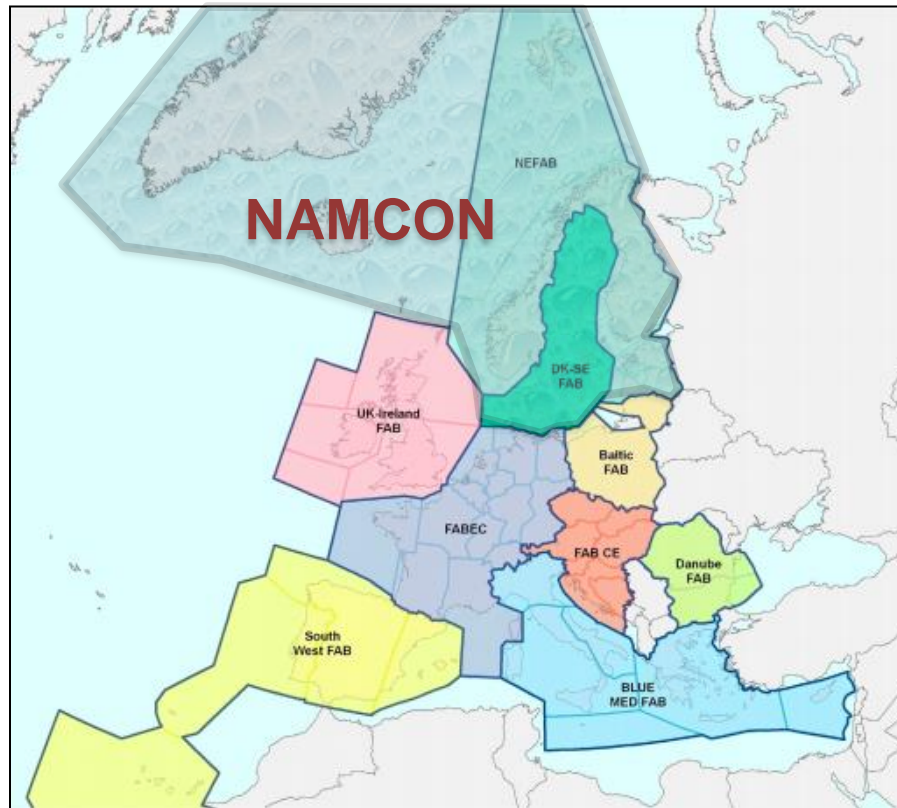


NAMCON Started from the Copenhagen Declaration (2011)

- Signed by NMS Directors from all 7 NAMCON States
 - *Note. Cooperation on aviation weather matters between Nordic NMS has started much earlier*
- Willingness to cooperate in production and development
- Agree on consortium – equal partners
- Cost-efficiency and high quality achieved through
 - Efficient division of tasks without regard to national borders
 - Minimising duplication
 - Harmonised products
 - Automated production without compromising quality
 - Mutual back-up production capabilities



Single European Sky



Vision: Regional Aviation Meteorology Service for Northern Europe

NAMCON Vision

NAMCON is the leading aviation meteorological service provider in Northern Europe, setting global standards on the efficiency, quality and technology of aviation weather service provision

Strategic Objectives

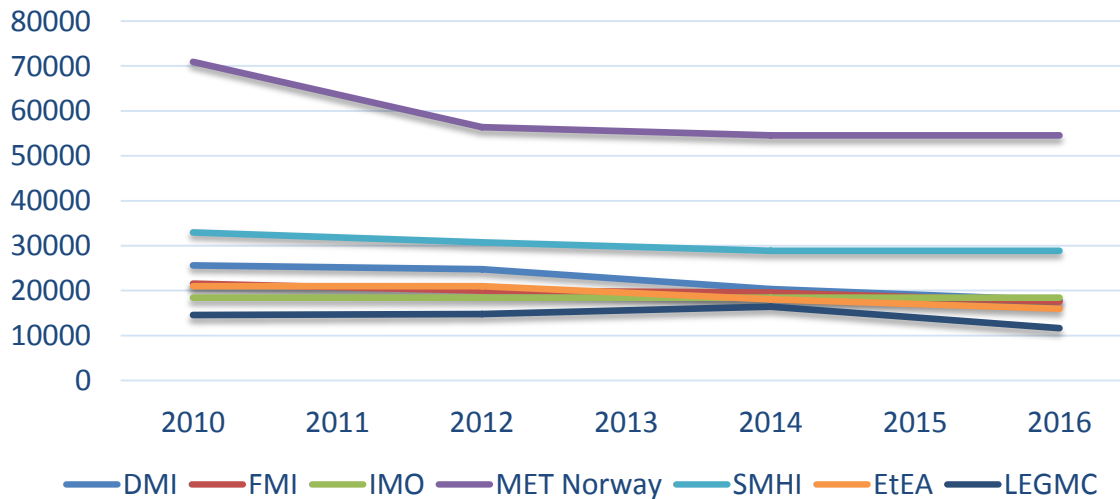
1. NAMCON is the best provider of meteorology services for aviation customers in Northern Europe
2. NAMCON cooperation increases efficiency, innovation and provides added value to its members
3. NAMCON is an inspiring community

Objectives achieved through collaboration and a shared vision

- Harmonisation of products, procedures and guidance material
- Joint production strategy and joint production (where feasible)
- Joint quality, competency assessment and compliance framework
- Cooperation in training and professional development
- Common forecast (TAF) verification system
- Consolidated research & development

Reduction of working hours

Civil Aviation Working Hours Within NAMCON 2010 - 2016



- Average reduction of -**20%**
 - FMI -19%
 - SMHI -12%
 - MET.no -23%
 - DMI -30%
 - LEGMC -20%
 - ESTEA -24%

(goal for RP2 -25%)

Harmonisation, joint operations and shared tools:

Examples of results so far

1. Joint Significant Weather Chart production between FIN and SWE: N(ord)SWC using SWIM-compliant SWC tool
2. Joint aviation weather briefing portal www.northavimet.com
3. Joint low-level forecast (LLF) production between SWE and DEN using a new interactive tool
4. Subcontracted service: DMI (DEN) responsible for TAFs in southernmost Sweden
5. Some back-up procedures and technical solutions e.g. for AFTN distribution between SWE-DEN
6. SIGMET coordination procedure between all seven countries
7. TAF and SIGMET Guidelines developed and implemented
8. FMI's TAF verification tool in use in all NAMCON countries

Harmonisation, joint operations and shared tools:

Future Plans

- Delivering VA SIGMETs from Norway and Iceland for all NAMCON FIRs
- Harmonised LLF product available in all (or almost all) countries
- Two SWCs: Greenland-Iceland & Scandinavia (DEN-FIN-NOR-SWE+baltics) produced from two joint centres
- Service delivery ensured via backup arrangements (cross-border)
- TAFs verified with same methods
- Collective research aiming for new products and improved quality of services (RP3, PCP etc.)
- Common SWIM interface to users (www.NorthAvimet.com portal)
- Shared tools and software, where feasible
- Common practices and guidance, where feasible

Main challenges

- Resources (more service and development needed with less staff and besides current operations)
- Common for all MET SP in Europe: cost-efficiency and other RP[x] targets, open markets, more and new services needed, innovations, technology etc.
- Some challenges associated also with differences between NAMCON providers and/or countries
 - Economics, history, culture and habits
 - EU members vs. non-EU members
 - Status of (additional) national legislation for aviation
 - MS, CA and ATSP dependent issues
 - Variety in operator need
 - Possible MIL operator issues
 - Amount and size of airports and FIRs, amount of air traffic
 - Service level (variety of products)
 - Current practices and technical solutions (joint operations or shared tools)
 - Readiness for changes and development

Contacts for NAMCON

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 EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR MOBILITY AND TRANSPORT
Director-General

Brussels, 7 March 2017
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Mr Jaakko Nuottokari
NAMCON Consortium Manager
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FI-00560 Helsinki

Dear Mr Nuottokari,

As Chairman of the Jury of the Single European Sky Awards contest, I am pleased to inform you that we have decided to confer the following special mention to your initiative for the 2017 edition of the Single European Sky Awards.

Special mention of the Jury
Northern Europe Aviation Meteorology Consortium

Finnish Meteorological Institute
Swedish Meteorological and Hydrological Institute,
Danish Meteorological Institute, Norwegian Meteorological Institute
Icelandic Meteorological Office,
Latvian Environment Geology and Meteorology Centre,
Estonian Environment

Cooperation - Industrial partnerships
2017

NAMCON is a cooperation with a long history and therefore a great and inspiring example of collaboration in MET services. It is also an impressive cost-efficiency initiative in an important support area to ATM. An effective distribution of real time weather information will have a great impact on optimal flight planning and network efficiency.

My sincere congratulations for your efforts, for the excellent work done and for the important contribution you have made to the Single European Sky.

Yours sincerely,


Henrik HOLEI

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Thank you Merci



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