
NWCSAF Services, Operations and 2019 Users' Survey

NWC SAF 2020 Users Workshop

10 - 12 March 2020

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NWCSAF Services, Operations and Users' Survey

- **General view**
- **Service Users and Operations**
- **Reference System**
- **2019 Users' survey**

NWCSAF Services, Operations and Users' Survey

NWCSAF General Objective:


- Development of Nowcasting products derived from both GEO and PPS satellite systems to be delivered to users as SW Packages.

The software is distributed freely to registered users of the meteorological community and is used for Nowcasting and as a development and research tool.

Responsible for:

- Development and maintenance of the NWC products.
- Development and maintenance of the SW Packages.
- Users' support and training tasks.

NWCSAF Services, Operations and Users' Survey



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Latest News

2020/03/04
Nowcasting SAF users' Workshop 2020. OPENED ONLINE ATTENDANCE

Nowcasting SAF users' Workshop 2020
10-12 March 2020
OPENED ONLINE ATTENDANCE
Opened online attendance for registered and non-previously registered participants






Due to growing concerns about COVID-19 and the consequent uncertainties and difficulties of some participants to travel to Madrid to attend the NWCSAF Users' Workshop, the organization has decided that The Workshop will have a mixed format: face-to-face and

Welcome to the NWCSAF

The key objective of the NWCSAF is to provide to National Meteorological Services, Scientific Institutions and in general meteorological users from EUMETSAT member states and worldwide, with an advanced, robust and reliable system to support both operational and research activities in Nowcasting and Very Short Range Forecasting, by means of:


- The production and provision of a software application for the near real time generation of a set of meteorological products to support Nowcasting activities, and
- The provision of support services to final users to allow the maximum exploitation and benefit of the software application and the transfer of knowledge from the NWCSAF consortium to its users.

The NWCSAF is being developed by a consortium of National Meteorological Services composed by:



nwc-saf.eumetsat.int

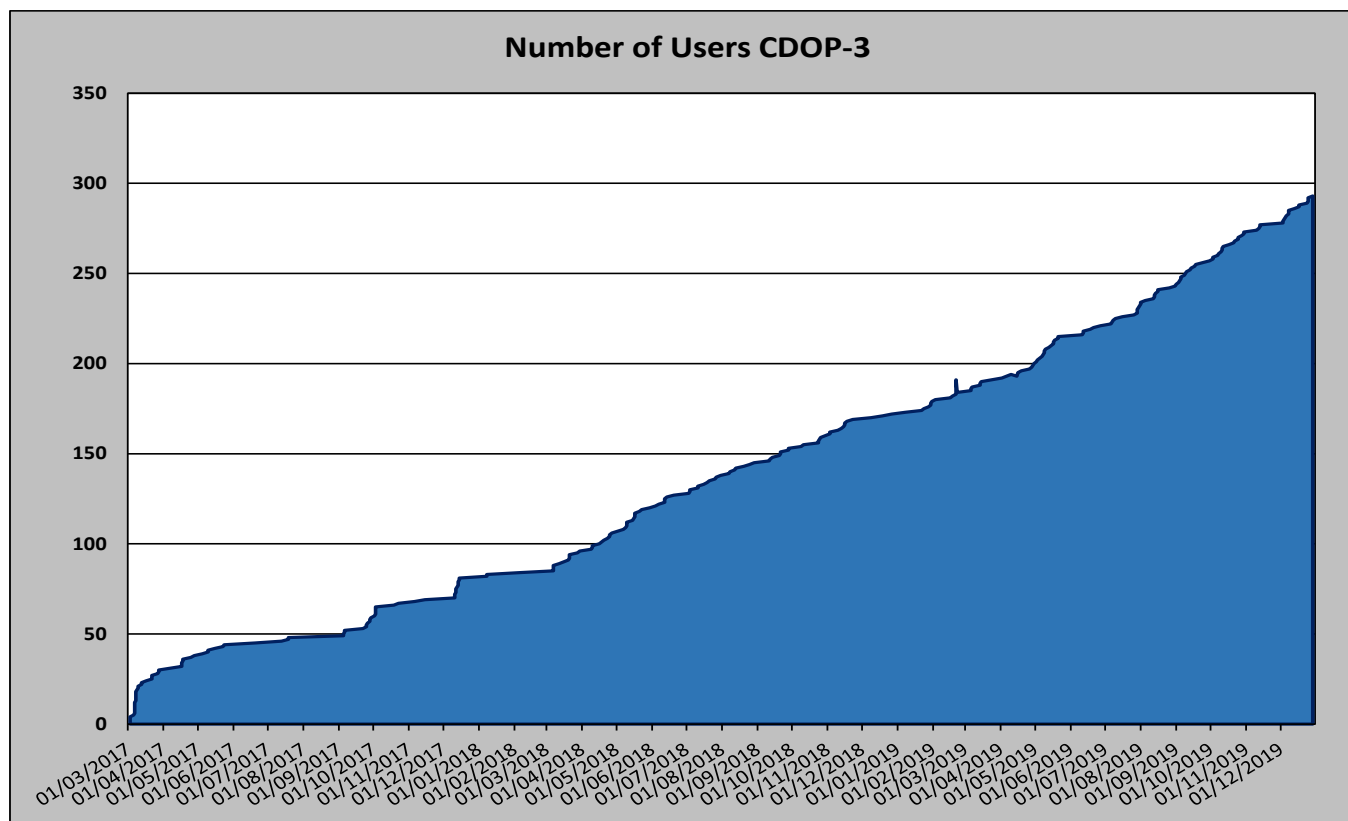
EUMETSAT
NWCSAF


Agencia Estatal de Meteorología

NWCSAF 2020 Users Workshop
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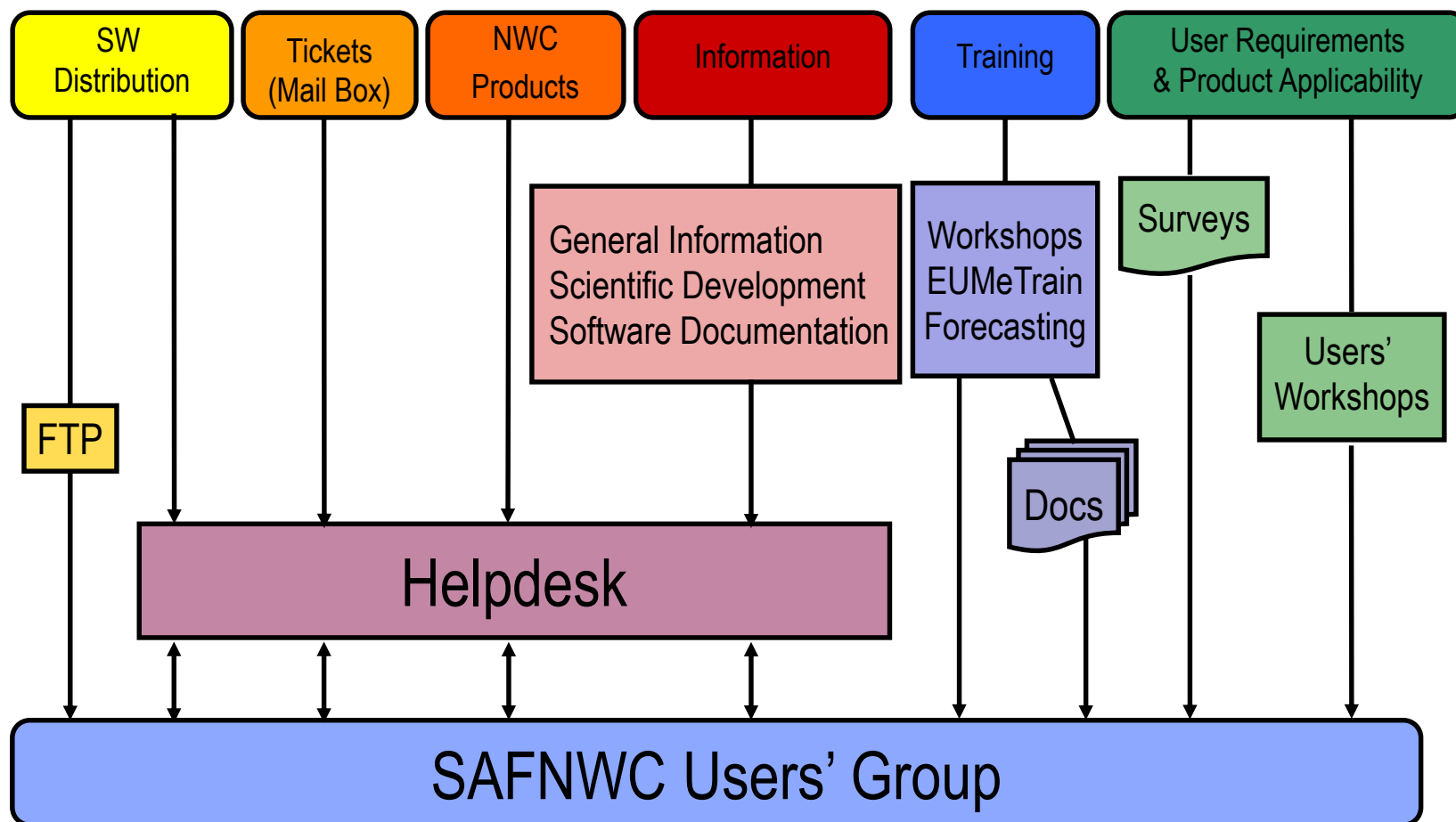
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293 Users more since CDOP-3 phase begun than CDOP-2 (140 users)

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Software distribution:

- NWCSAF/GEO v2018.1 Package Download released on 31st January 2020.
- NWCSAF/GEO v2018 Package Download released on 14th February 2019.
- NWCSAF/GEO v2016 Package Download released on 30th January 2018.
- NWCSAF/PPS v2018 Package Download released on 12th December 2019.
- NWCSAF/PPS v2014 Package Download released on 17th December 2018.



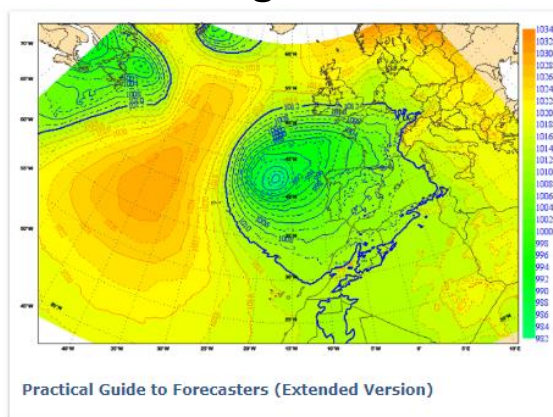
- The user runs the SW package and generate the products.
- **Advantage:** users can configure the SW to fit their needs (e.g. the user define the area where the products are generated).
- **Potential problem:** users need access to EUMETSAT satellite images and a NWP model output.

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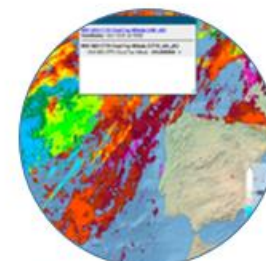
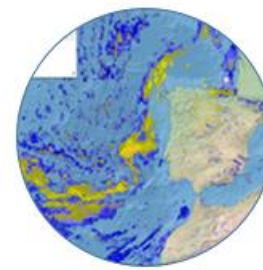
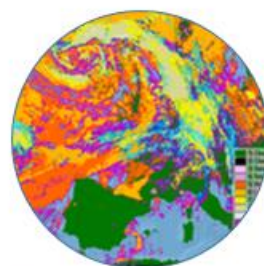
Tickets:

Date	Subject	Pack	Item	Type	Ref. to	Responsible
2020/03/06	TM_FileNew_Sat.ksh shell scripts writes different messages to different locations	GEO	TM	Improvement	SW Application	Integrator
2020/03/04	inconsistency between CT and CTTH	GEO	CTTH	Question	SW Application	MFL PT
2020/03/03	HRW processing time	GEO	HRW	Improvement	SW Application	AEMET Winds PT
2020/03/03	Problem of running RDT with lightning	GEO	RDT-CW	Question	SW Application	MFT PT
2020/03/03	Error during installation	GEO	CTTH	Question	Documentation	Integrator, Leading Entity
2020/02/20	Processing of GOES16 data as delivered by Eumetsat	GEO	NWCLIB	Question	Other	Integrator
2020/02/14	problem with the NWC-CDOP3-GEO-AEMET-SW-CODE-SYSTEM_v2018.1_15OCT19.tgz file	GEO	SYSTEM	Report	SW Application	Leading Entity
2020/02/13	Lightning data for RDT	GEO	RDT-CW	Question	Other	MFT PT
2020/02/05	production problems	GEO	iSHAI	Question	SW Application	Integrator
2020/01/24	HRW production problem	GEO	HRW	Question	SW Application	AEMET Winds PT

Forecasting:

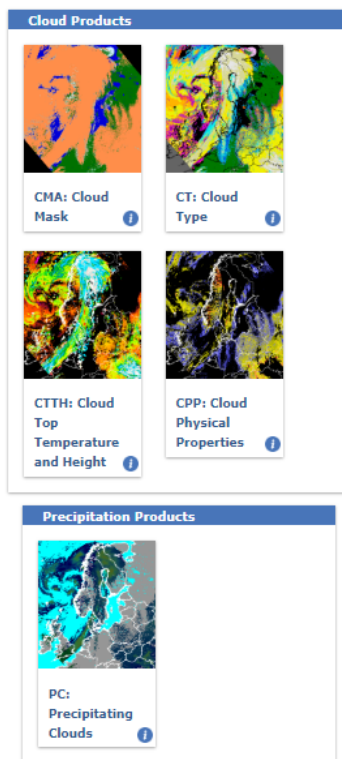


Aviation Guide:

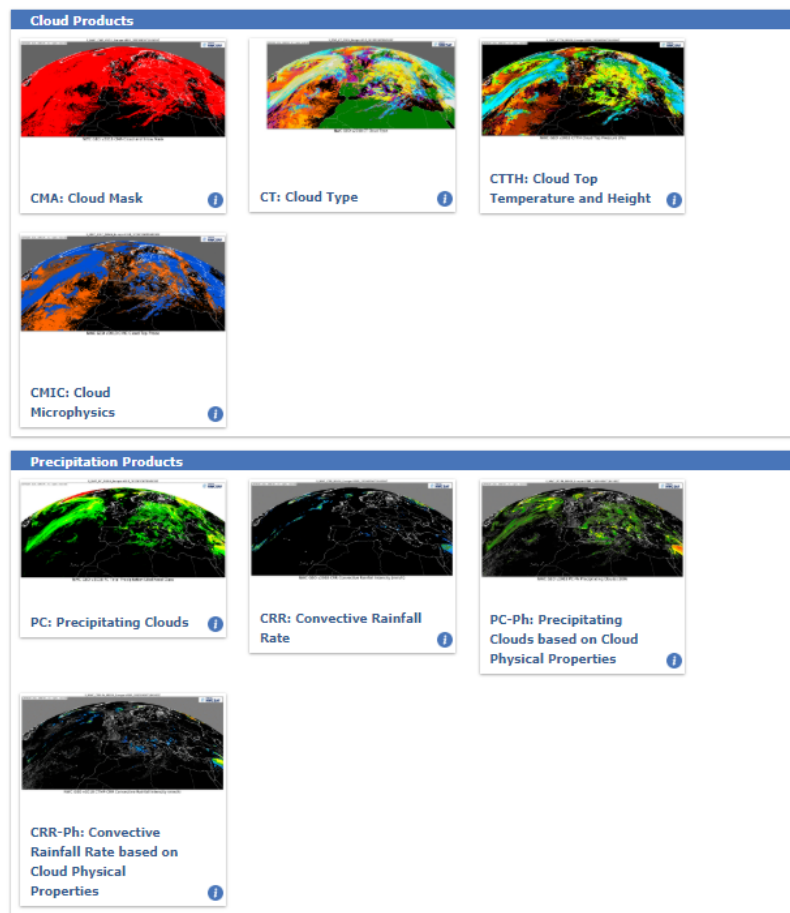


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NWC/PPS Products



NWC/GEO Products v2018



1. Platform where NWCSAF last version is running routinely.

2. Intended to assure the operations of SW package.

3. Helpful to new users.

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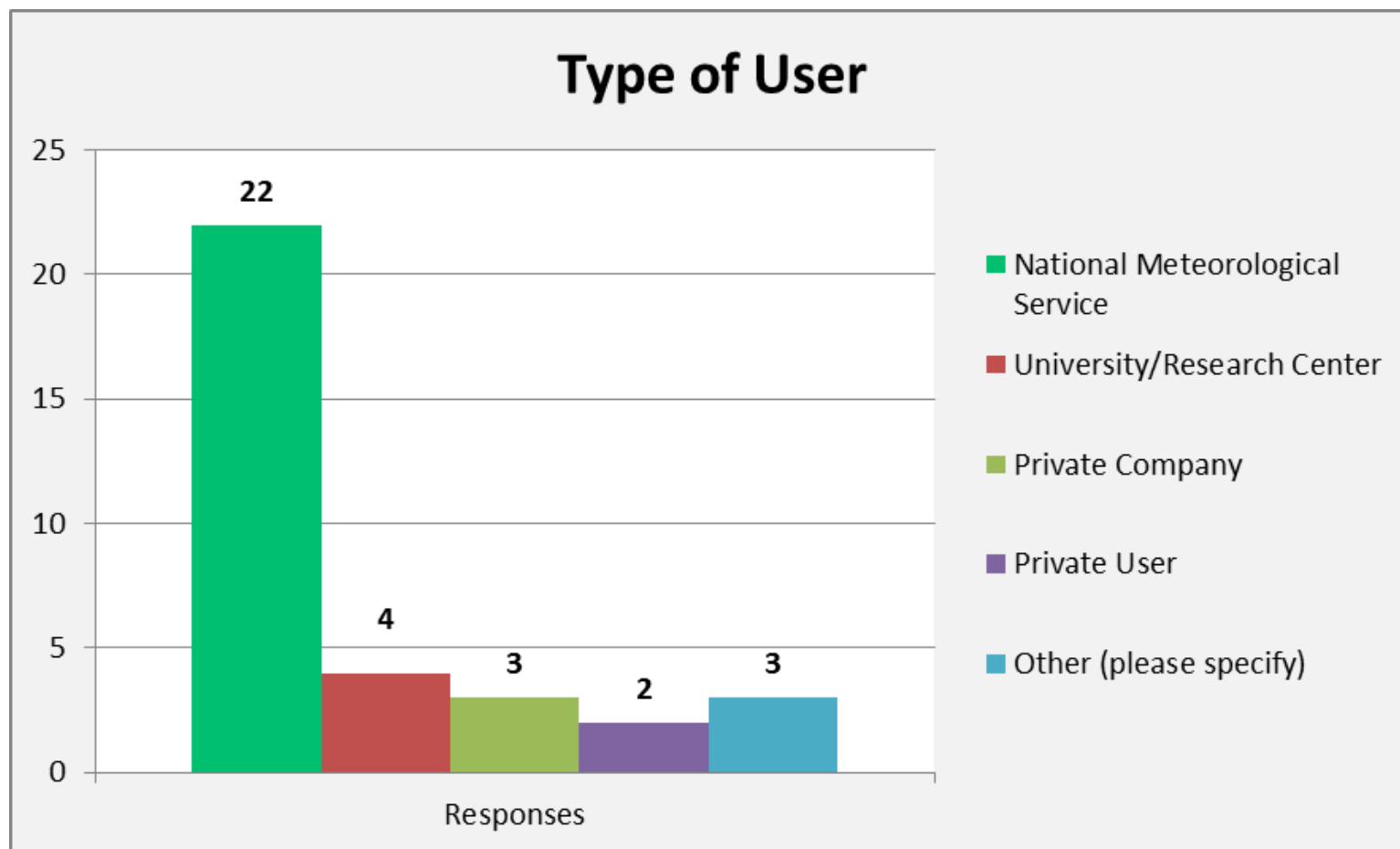
Survey Characteristics:

- Released on the 3rd October 2019
- Active until 8th December 2019
- 34 answers were received
- Survey was anonymous (26 identified themselves)
- Almost all the questions were optional

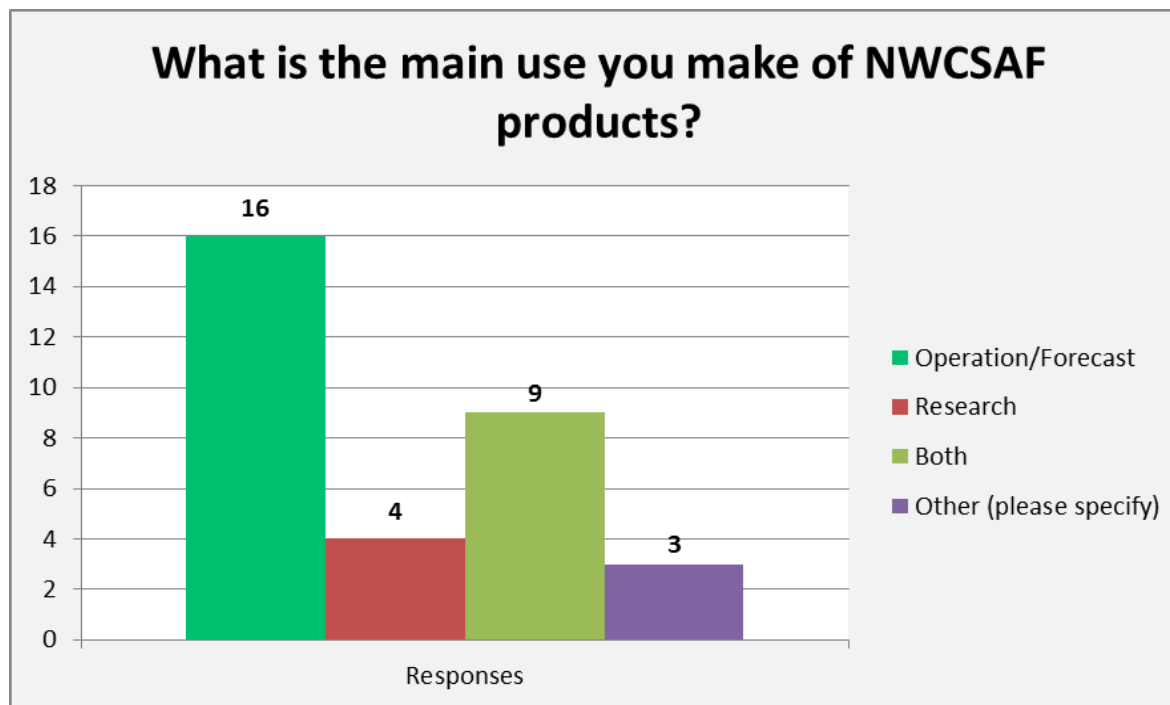
Survey Breakdown:

- General questions
- Questions about HelpDesk
- Questions about MSG/GEO package
- Questions about PPS package

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**Use of the products for hazard warnings → Yes: 19
No: 14**

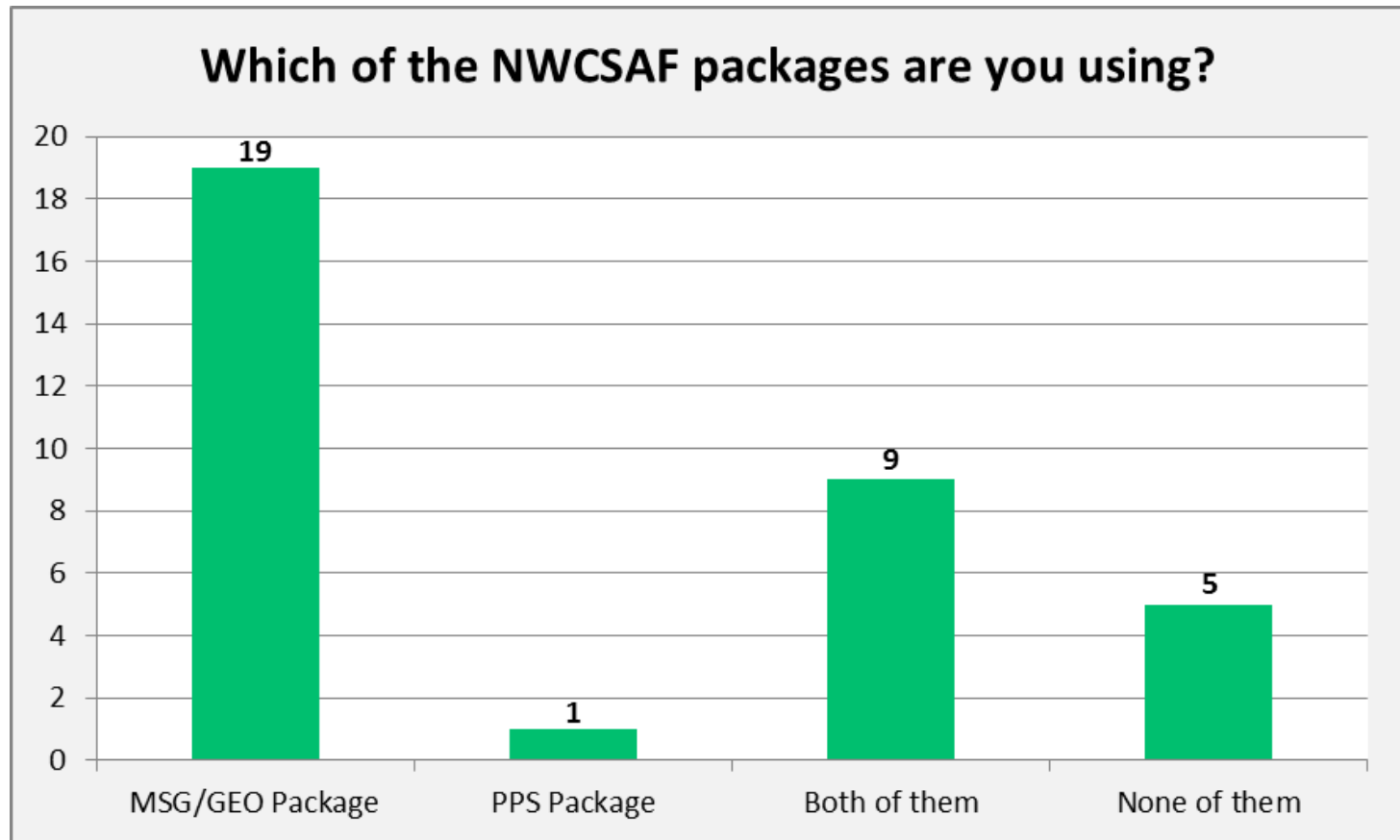
**Use of the products for commercial activity → Yes: 8
No: 24**

NWCSAF Services, Operations and Users' Survey: Website

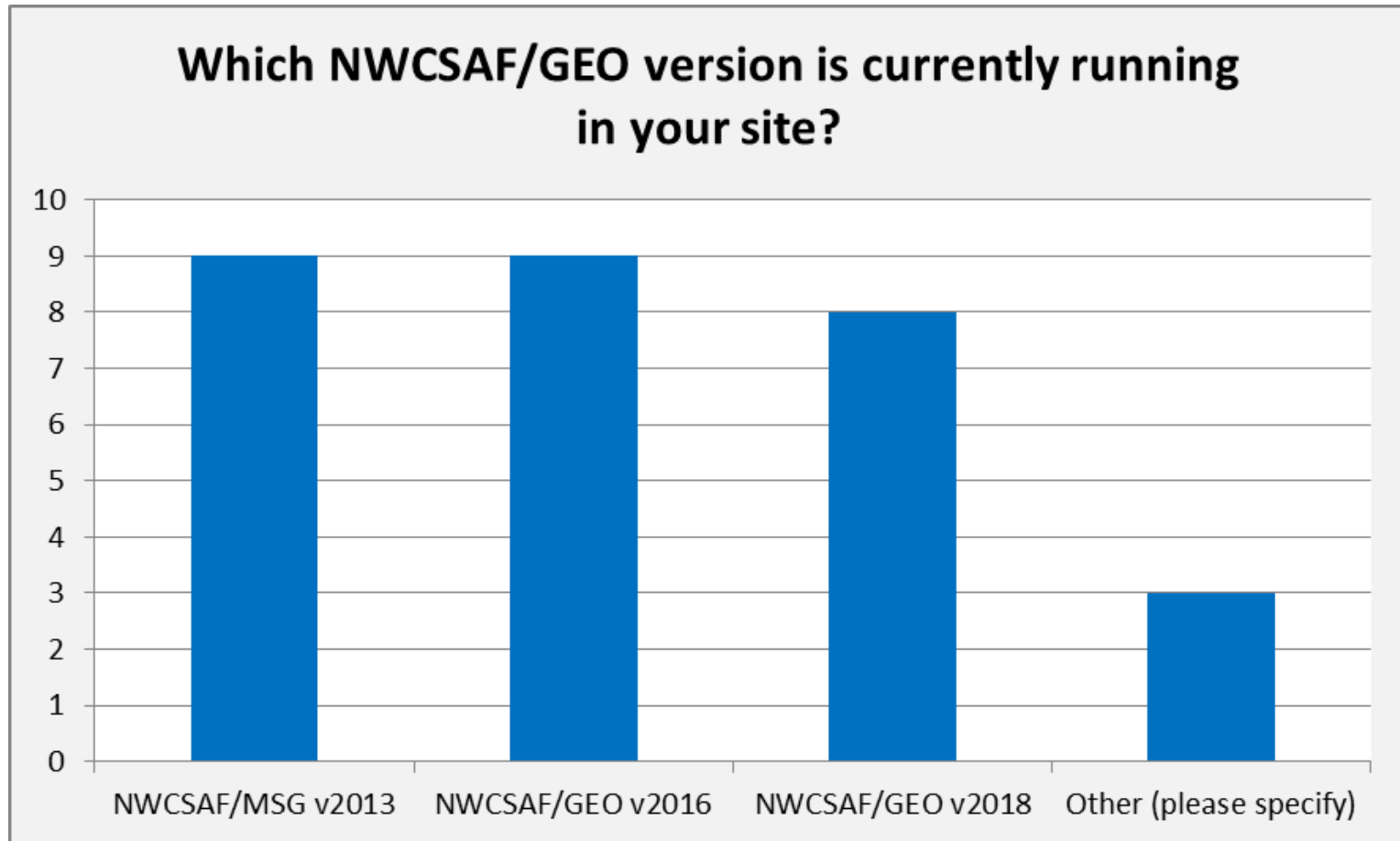
Proposed improvements

- To include https login.
- To make the document portal more user friendly (2).
- To include more case studies and interactive NRT products (zoom +/-, layers).
- To organise a blended training course for user in Africa.

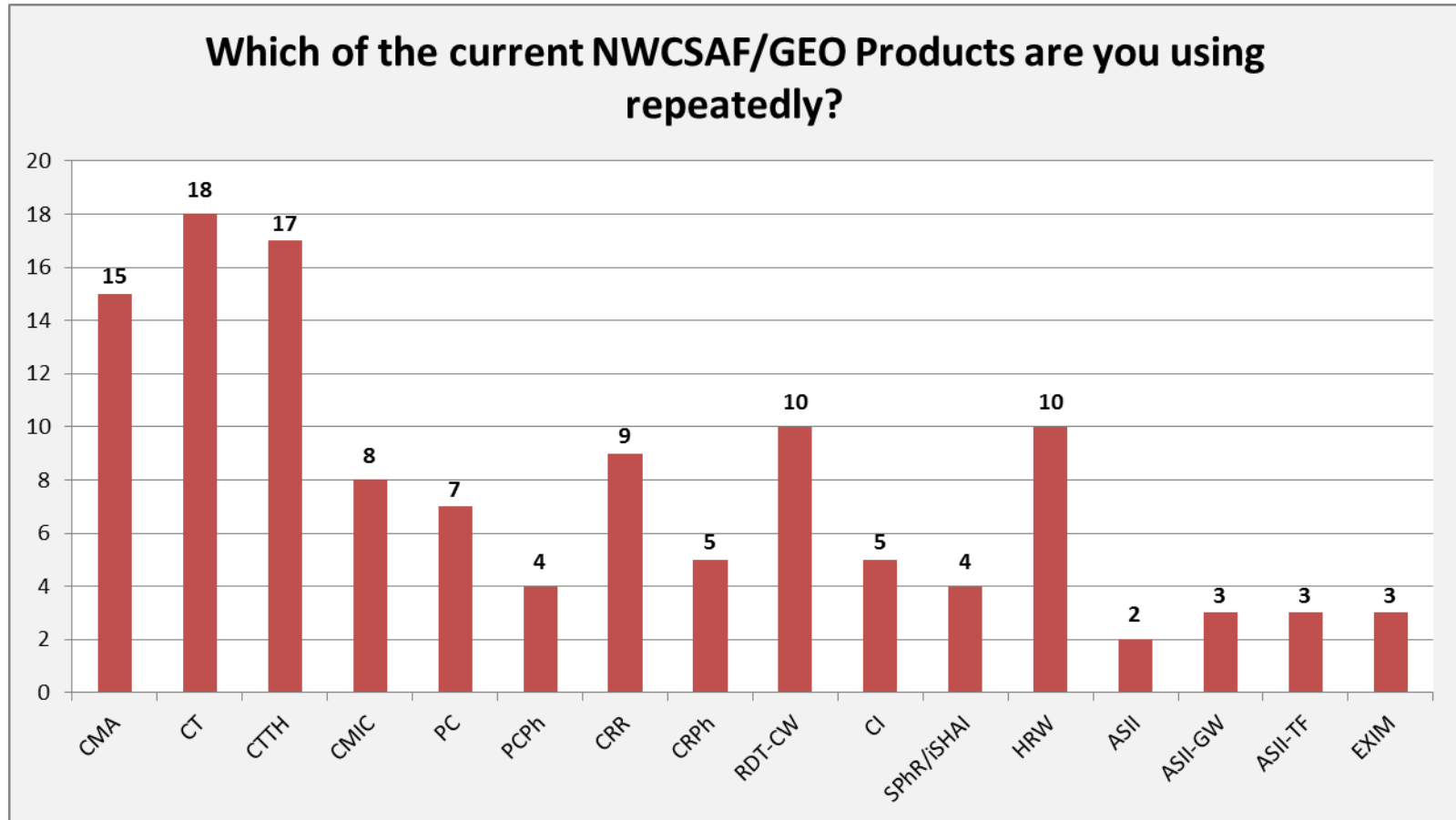
NWCSAF Services, Operations and Users' Survey



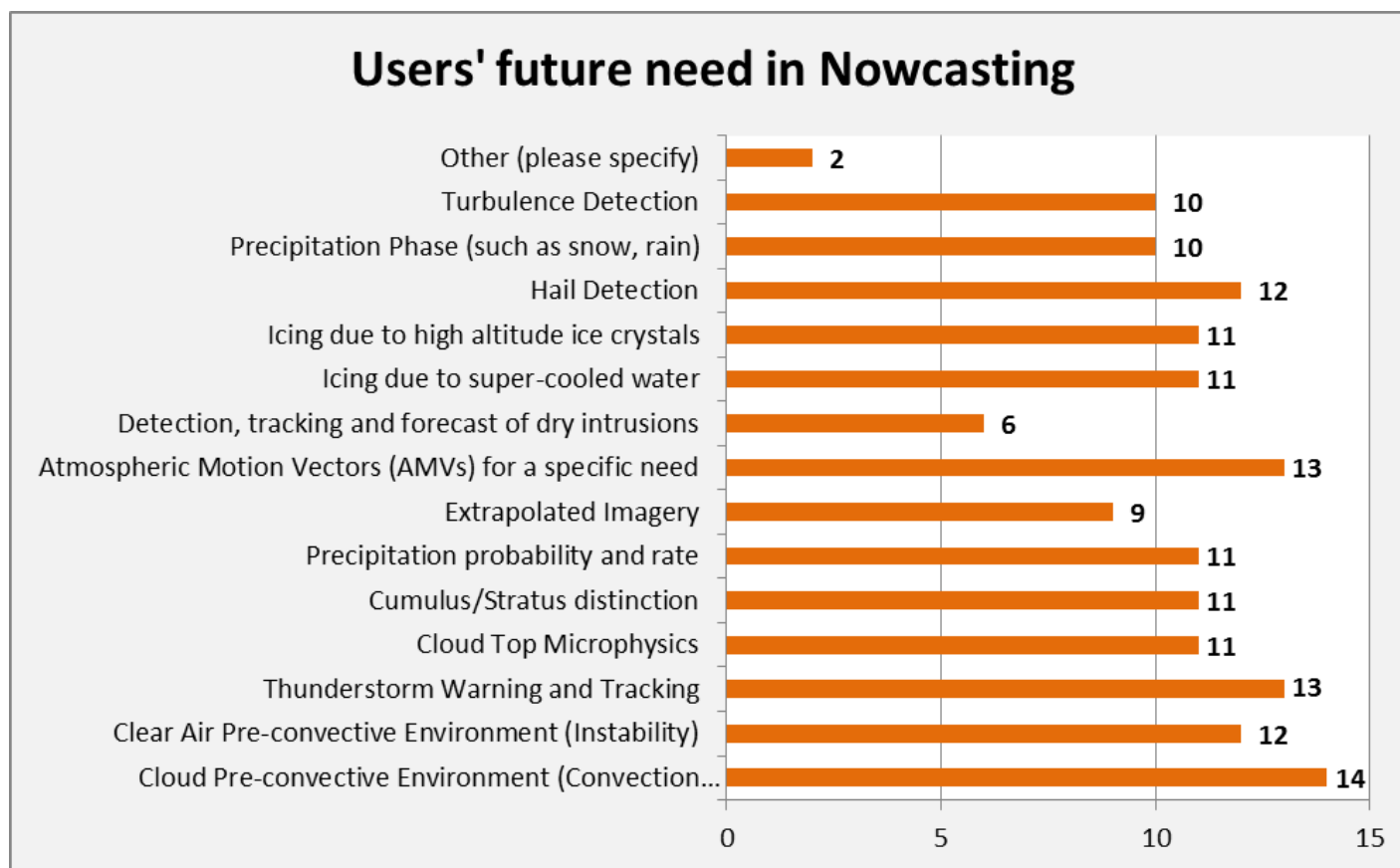
NWCSAF Services, Operations and Users' Survey: MSG/GEO part



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Other:

- Dust transport.
- Hail suppression.

NWCSAF Services, Operations and Users' Survey: MSG/GEO part

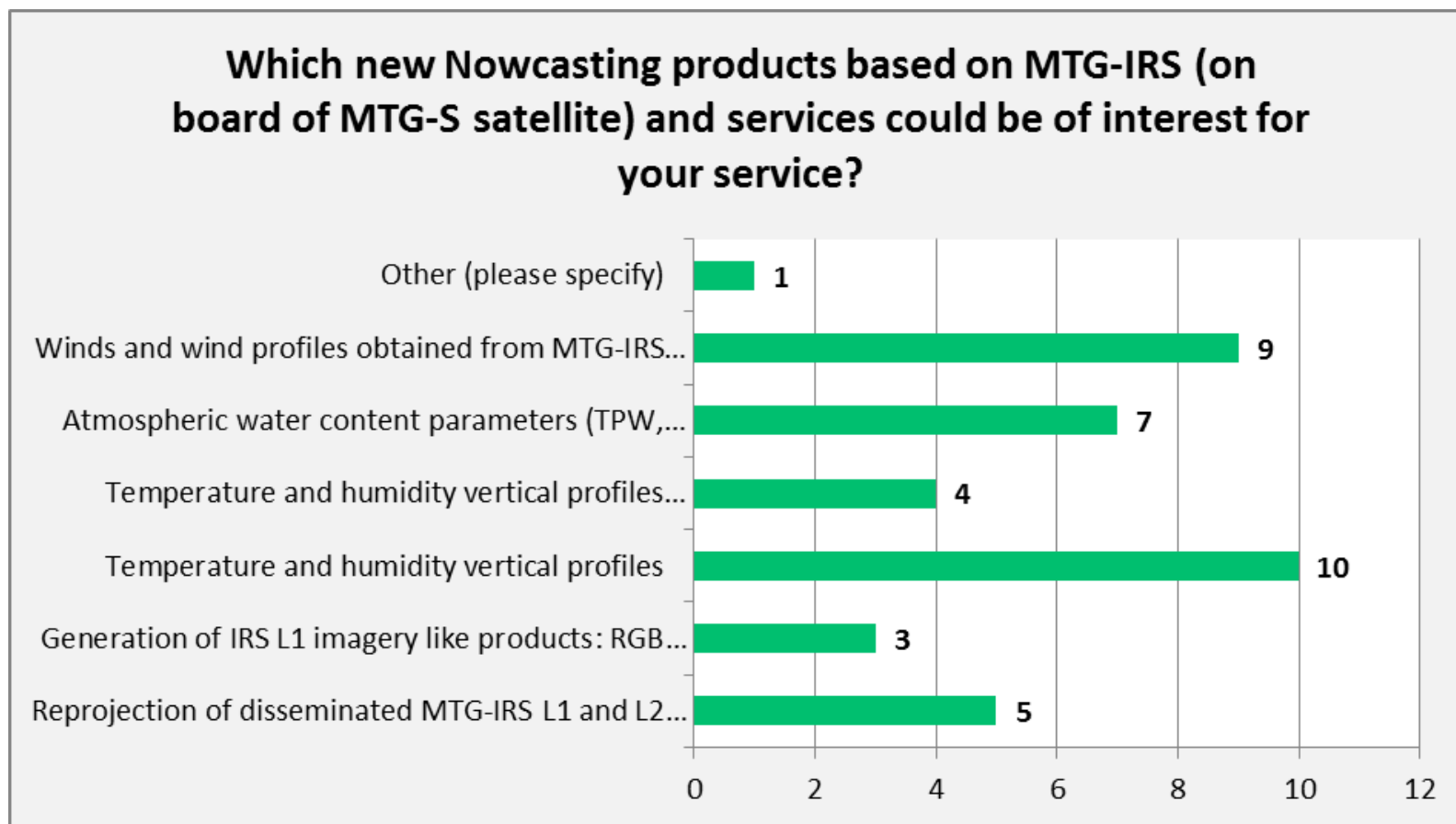
NWCSAF/GEO Products that could cover Users' needs:

- Cloud index.
- Overshooting Cloud Top Detection and fog detection.
- A new package tracking and forecasting the physical evolution of the clouds, not only an extrapolation, in terms of effective radius and optical depth.
- Fog related probability products (cloud base height, fog).
- Icing probability.
- Precipitation phase probability

EUMETSAT MTG-LI Products interesting for the User :

- Flashes and Groups of Flashes (3) – MTG-LI L2
- Accumulated Flashes and Accumulated Flash Index (3) – MTG-LI L2
- Flash area and Flash rate area (3) – MTG-LI
- Flash centroid density (1) – MTG-LI
- Raw level 0/1 data (1) – MTG-LI

NWCSAF Services, Operations and Users' Survey: MSG/GEO part



NWCSAF Services, Operations and Users' Survey: MSG/GEO part

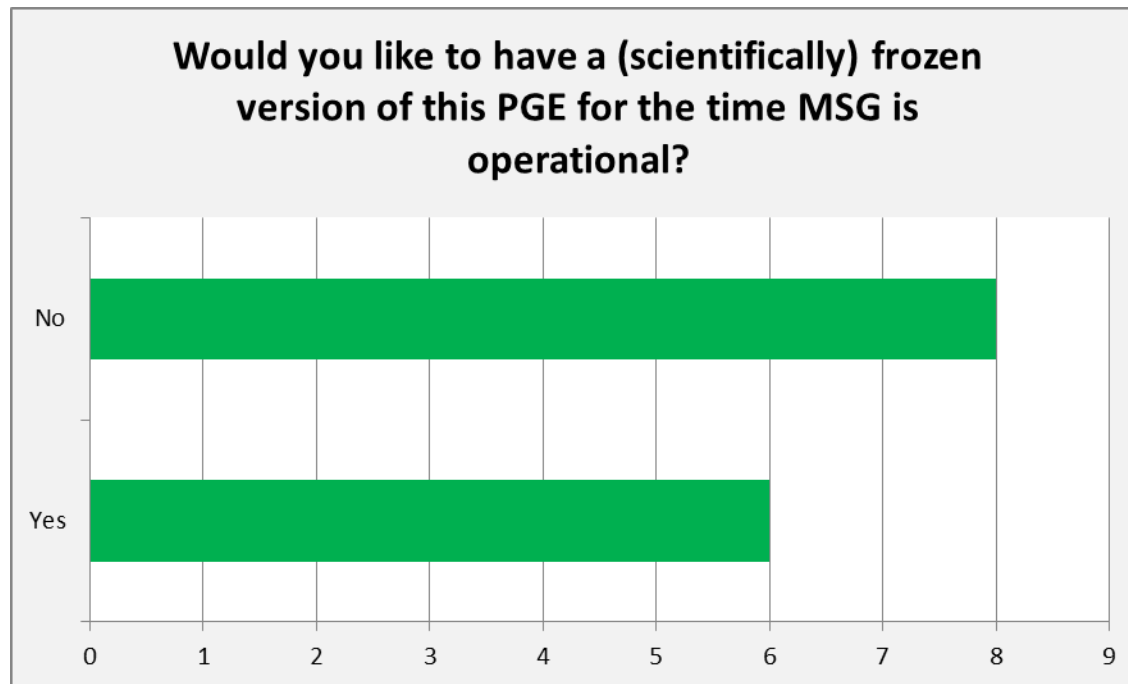
MTG-FCI based NWCSAF Products interesting for the User:

- Cloud base height.
- Fog probability.
- Icing.
- Wind profiles.
- Precipitation phase.
- Physical evolution of the clouds.
- Cloud Microphysics (Day-time and Night-time).
- Sky radiance and irradiance at TOA.
- Cloud drop effective radius.
- Ozone total column.

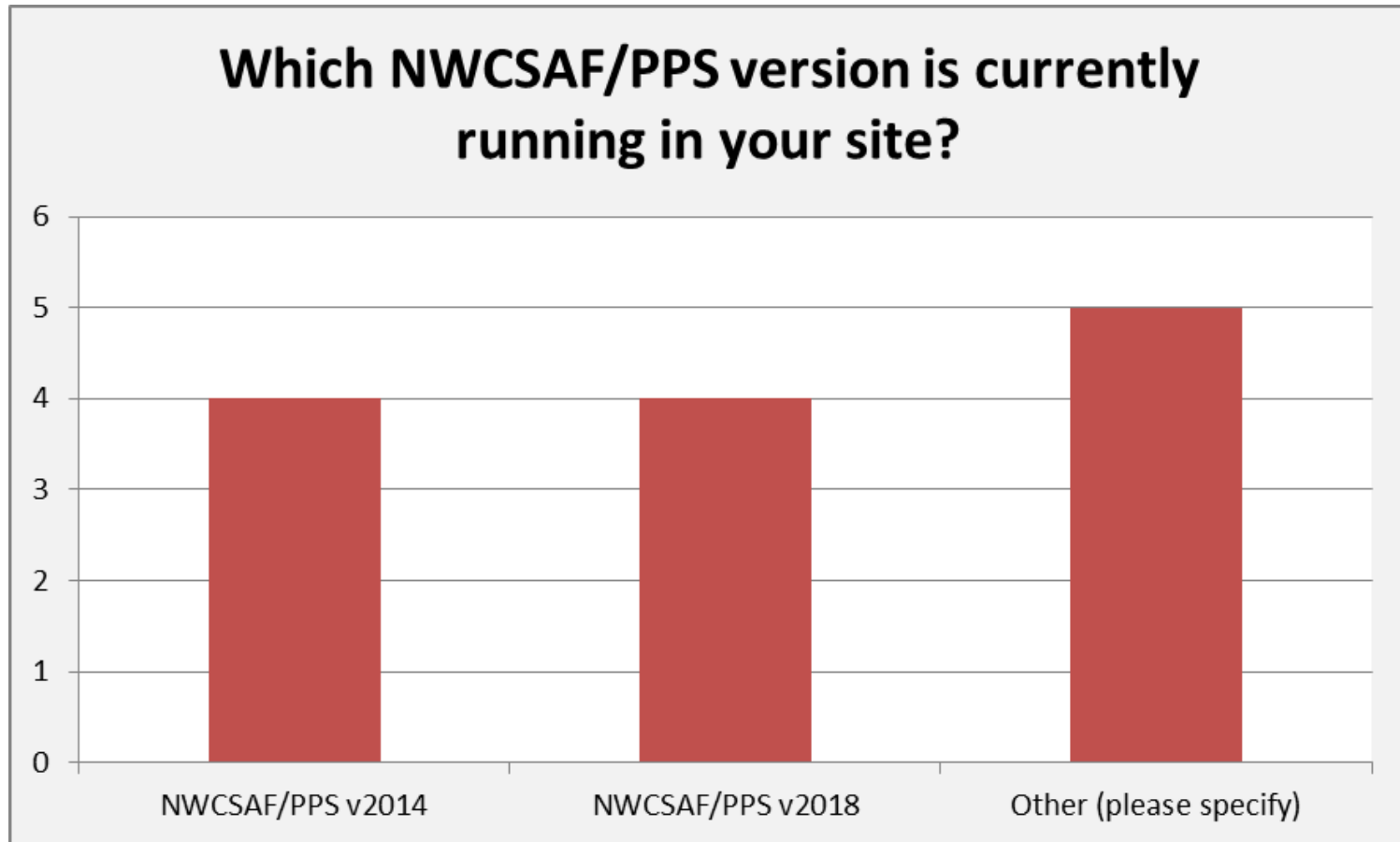
NWCSAF Services, Operations and Users' Survey: MSG/GEO part

Are you regularly using the ASII product?

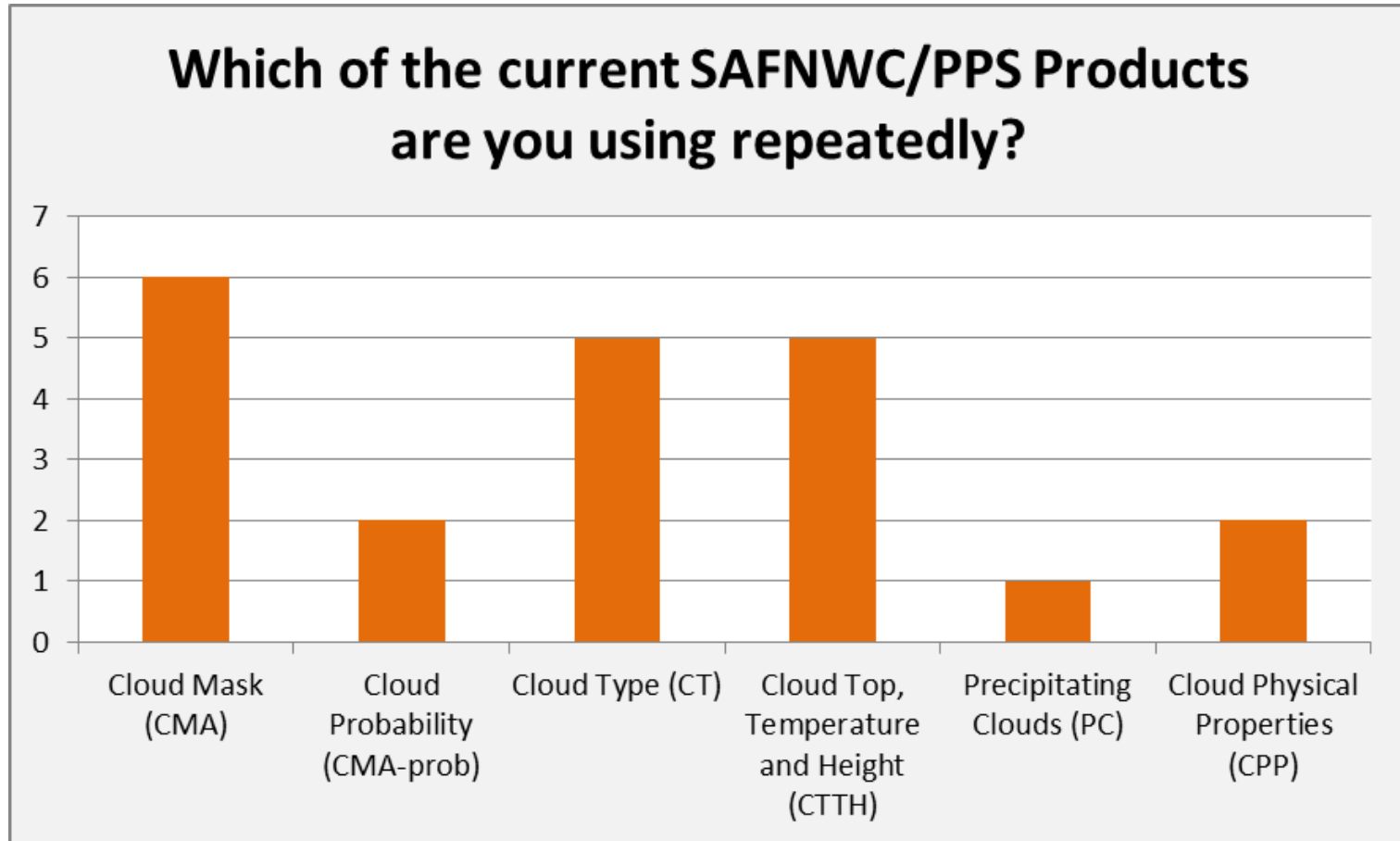
- Only 1 person (23 answers) use ASII product regularly because it is useful for forecasters as a first step to monitor weather situation.



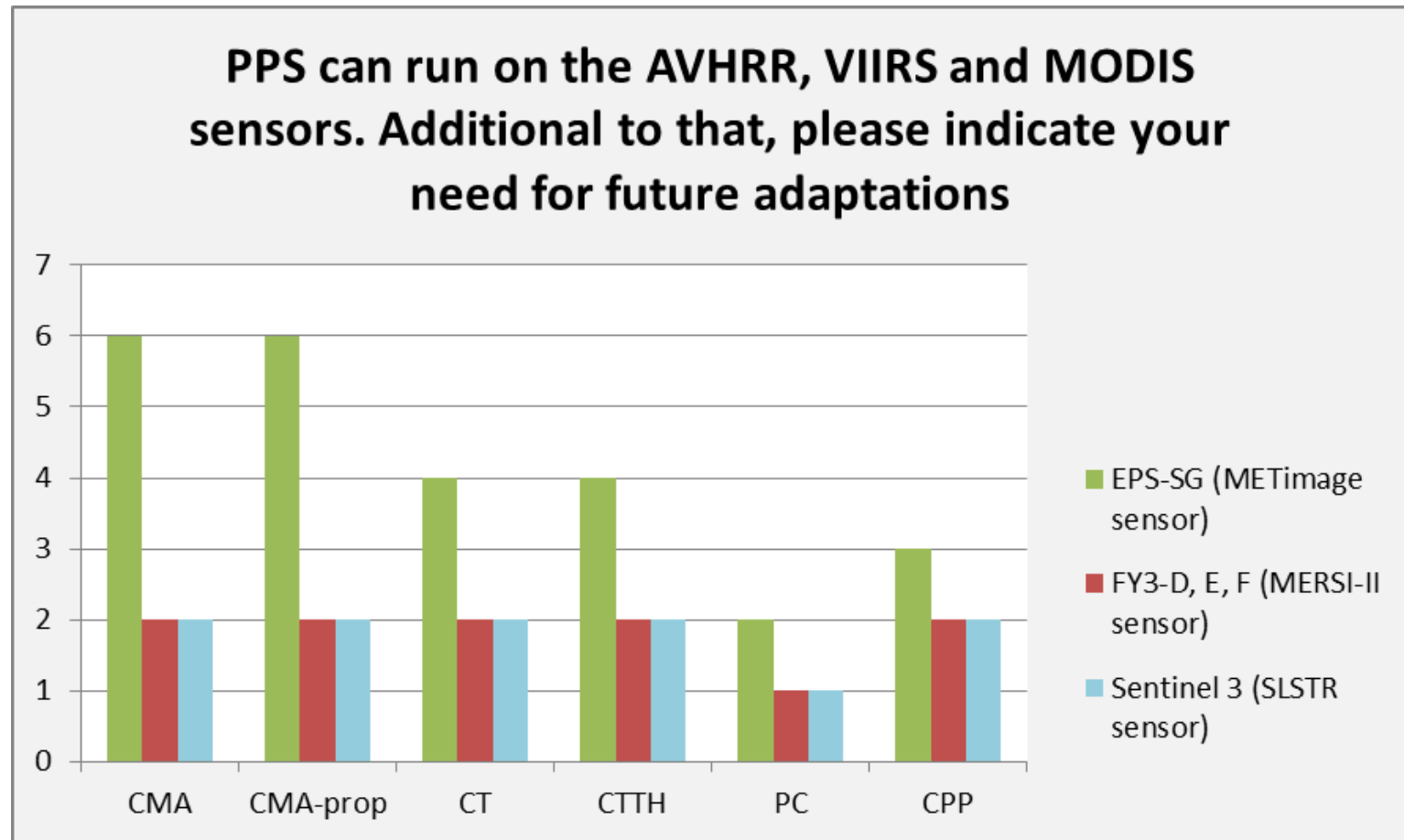
NWCSAF Services, Operations and Users' Survey: PPS part



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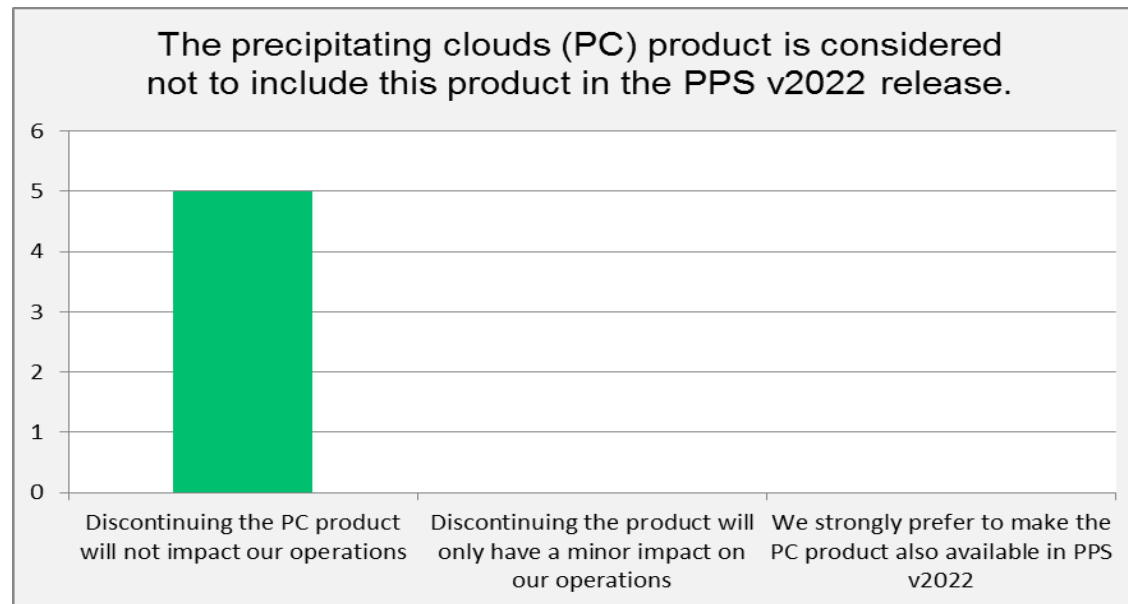
NWCSAF Services, Operations and Users' Survey: PPS part



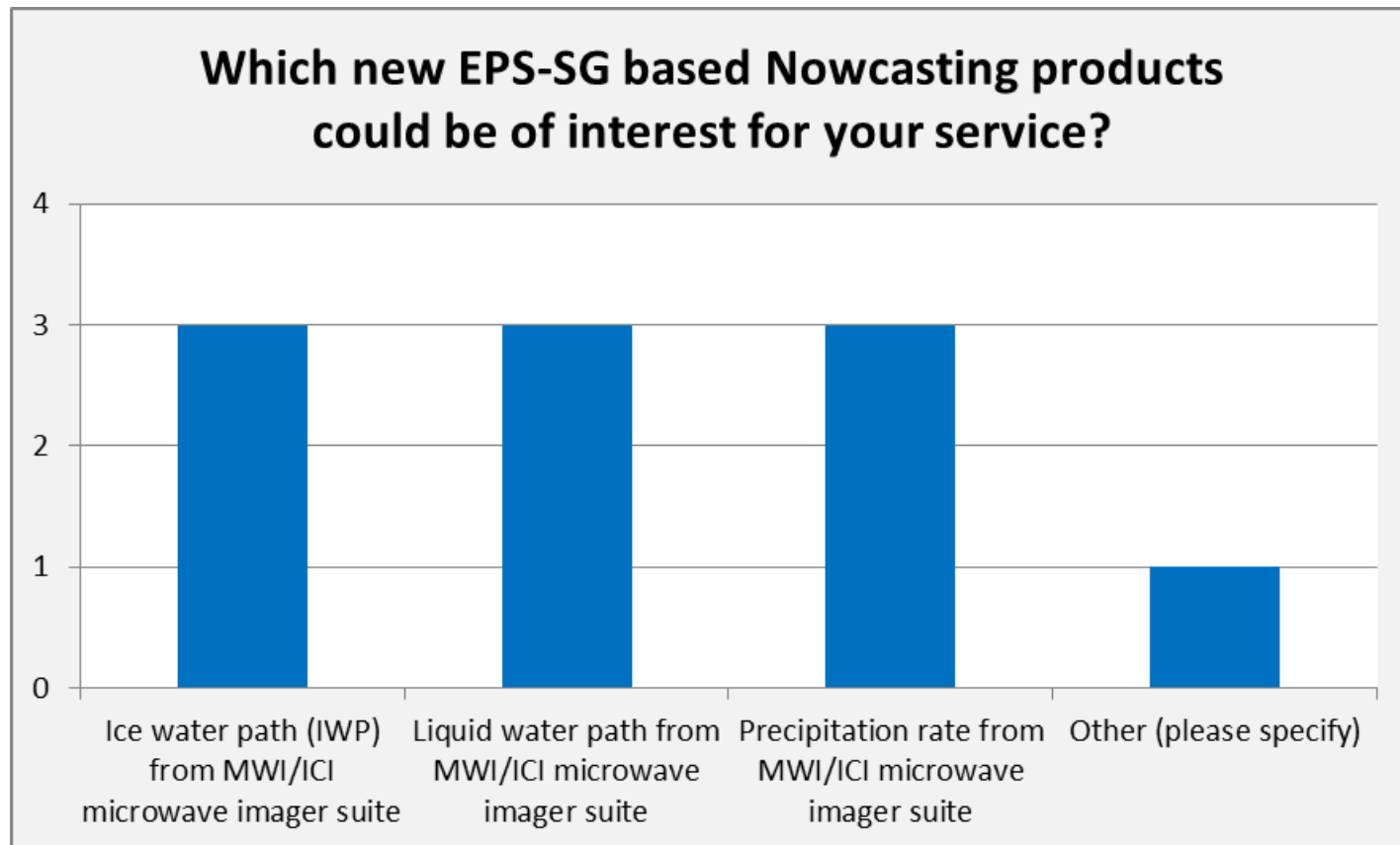
NWCSAF Services, Operations and Users' Survey: PPS part

NWCSAF/PPS Products that could cover Users' needs:

- Fog and Icing probability.
- Cloud base height probability.
- Precipitation phase probability
- Winds and motions from polar satellite.
- Cloud base from combined satellite and surface observations.



NWCSAF Services, Operations and Users' Survey: PPS part



Other:

- Icing

Thanks for your attention!