

WORLD METEOROLOGICAL ORGANIZATION

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COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMME AREA GROUP ON INTEGRATED OBSERVING SYSTEMS

EXPERT TEAM ON SATELLITE UTILIZATION AND PRODUCTS

ITEM: 8.1

EIGHTH SESSION

GENEVA, SWITZERLAND, 14-17 APRIL 2014

Original: ENGLISH

SCOPE-Nowcasting

(Submitted by Anthony Rea)

Summary and Purpose of Document

To provide a brief update on SCOPE-Nowcasting.

ACTION PROPOSED

The eighth session is invited to:

- (a) Note the information provided; and
 - (b) Review the Report of the SCOPE-Nowcasting Workshop (link provided).
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DISCUSSION

Introduction

1. There have been a number of significant milestones achieved in relationship to SCOPE-Nowcasting since ET-SUP-7.

Communication and Outreach

2. The SCOPE-Nowcasting concept was presented to CGMS-41 in Tsukuba, Japan, in July 2013. The concept was received well by the operators and there were two actions adopted in the CGMS Plenary Session:

- i. CGMS members to nominate focal points for the SCOPE-Nowcasting (NWC) initiative as appropriate (by 15 August); and
- ii. Feedback from CGMS members sought on the final makeup of the SCOPE-Nowcasting pilot projects by 1 September 2013.

3. These actions have subsequently been completed.

4. SCOPE-Nowcasting was also presented at the 4th Asia Oceania Satellite Users Conference in Melbourne, Australia in October 2013.

5. Subsequent to these meeting the concept paper underwent minor revision.

Workshop

6. Arising from the recommendations of ET-SUP-7 a meeting of the Ad Hoc SCOPE-Nowcasting Working Group was held on 19-22 November 2013 at WMO, Geneva.

7. Attendees at the meeting were: Dr Anthony Rea (ET-Sup Chair), Ms Eun Jeong Cha (KMA), Dr Xiang Fang (CMA), Ms Suman Goyal (IMD), Dr Marianne Konig (EUMETSAT), Dr Hiroshi Kunimatsu (JMA), Mike Pavolonis (NOAA), Dr Danie Vila (INPE) and Dr Klaus Zehner (ESA). Secretariat was represented by Dr Stephan Bojinski.

8. The session achieved its major goals, which were to:

- i. Review the SCOPE-Nowcasting concept;
- ii. Review and refine each of the pilot projects with regard to the criteria established at ET-SUP-7; and
- iii. Prepare an action plan for the next 3-5 years for each of the pilot projects.

9. The major outcomes of the meeting were:

- i. Revisions to four of the pilot projects and rejection of one that did not meet essential criteria;
- ii. A joint session with the WMO/IUGG Volcanic Ash Scientific Advisory Group; and
- iii. The organisation of a Volcanic Ash Satellite Intercomparison Workshop to establish the optimal way forward for unified volcanic ash products.

10. The full report of the workshop is available form the following link:

http://www.wmo.int/pages/prog/sat/documents/SCOPE-NWC-1_FinalReport.pdf

11. The revised list of pilot projects is summarised in the following table:

Category	Product	Region	Provider	User	Gaps
Basic nowcasting	RGB composites	WMO Region II (Asia) and Region V (SW Pacific)	JMA, CMA, KMA	NMSs in Region II and V	No standard products available; products limited
Advanced nowcasting	Volcanic Ash Products	Global	CMA, JMA, KMA, EUMETSAT, NOAA	NMHSs, VAACs	No standard products available; products limited
Advanced nowcasting	Blended satellite global precipitation product (GEO+LEO)	Global coverage	Hydro Estimator, NASA TRMM (3B42), NOAA (real-time MW)	Civil authorities, NMHSs, Flash flood guidance systems, general users	Rapid, facilitated access to quantitative precipitation estimates
RT Atmospheric Composition products	Dust Monitoring and Prediction Products	WMO Region II (Asia) and V (South-West Pacific)	CMA, JMA, KMA	SDS-WDCs, NMSs (to issue results and warnings) in RA II and RA V	Regional diversity of aerosol-related products not harmonized