



Discussion on future CGMS WGI efforts on Space Debris and Collision Avoidance

Presented to CGMS-51 WG-I session, agenda item 7.1
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Review of CGMS efforts so far.

CGMS-46 WGI: 6.2	Space debris and collision avoidance. Coordination with the IADC	No papers
A46.11: Members to provide the status of their collision avoidance processes and the lesson learned when implementing these processes		
CGMS-47 WGI: 6.2	Space debris and collision avoidance. Coordination with the IADC	
Collision Avoidance Process and Lessons Learned in EUMETSAT (A. Monham)	Responding to WGI/A46.11 <i>WGI/A47.09 Form a Task Group on Space Debris and Collision Avoidance to produce a Best Practice on Collision Avoidance. Renamed Action WGI/A48.07</i>	PPT CGMS-47-EUMETSAT-WP-15 19/05/2019
NOAA's response to space debris and concerns on the increasing threat or danger (V. Griffin)		PPT CGMS-47-NOAA-WP-10 07/05/2019
CGMS-49 WGI: 6.2	Space debris and collision avoidance. Coordination with the IADC	
Potential creation of working group on space debris avoidance (V. Griffin)	Responding to WG/A48.07 NOAA-EUM having initial ToR discussions and will make preliminary BP assessment before CGMS-50.	Verbal 06/04/2021
CGMS-50 WGI: 5.1	Space debris and collision avoidance. Coordination with the IADC	
Report from the CGMS WGI Task Group on Space Debris and Collision Avoidance (B. Walling/A. Monham)	<ul style="list-style-type: none"> TG ToR provided. Detailed elements for to form the BPs already assessed expand TG to all CGMS Members 	PPT CGMS-50-WGI-WP-02 25/04/2022
Response to Space Debris and the Concerns on the Increasing Threat or Danger (B. Walling)	<i>WGI/A50.07: Deliver a Best Practice document on collision avoidance and debris mitigation</i>	PPT CGMS-50-NOAA-WP-06 25/04/2022

Synergy with inputs from draft SSA Position Paper

Step 1: Identify and review scope of other international governmental and commercial efforts to coordinate in the space traffic domain. *Identify opportunities for collaboration, lessons learned etc.*

Step 2: Review Conjunction Management approaches to identify best and minimum acceptable practices which can form the basis of an international norm, acceptable to global operators and SSA analysts. *(Builds upon the NOAA-EUM CGMS-50 Papers)*

Step 3: Perform a gap analysis between the needs and the available/used Space Traffic Coordination (STC) services. *This will need to highlight deviations in regional STC service approaches and address feasibility of alignment / identification of acceptable minimum capabilities based on Step 2 output*

Step 4: Prepare a proposal for the best practices to support improvement of STC services towards the CGMS Member Agencies' needs. *Note this needs to take a global perspective, taking into account outputs from Steps 2,3.*

Step 5: Engage with UN-COPUOS to achieve global standardised approach for STC based on CGMS proposal. *Requires a CGMS position paper for tabling at the UN-Copuos STSC (Science and Technical Subcommittee)*

Proposal for Next Steps

1. Identify leadership and membership of the Debris and Collision Avoidance TG
2. Build on the NOAA-EUM work already performed, with wider Agency participation
3. Propose to integrate agreed steps from the final SSA Position Paper with appropriate delivery dates.