

# **Collective Group of Meteorology Satellites Work Group I – Data Collections Systems (DCS)**

## ***Interference Register***

### **1. Overview**

- 1.1. Data Collection Systems operated by CGMS partners experience a range of radio frequency interference (RFI). This register is intended to consolidate known interference sources for the awareness of DCS partners as well as provide a reference for CGMS Workgroup I – Radio Frequency Interference.
- 1.2. Register does not include space weather or natural RFI.
- 1.3. The register is not intended to provide the comprehensive information needed to submit a report to a regulatory agency.

### **2. Interference Register**

- 2.1. An appendix to this document contains interference information for each CGMS WGI-DCS agency.
- 2.2. The register contains information on relevant or recent interference. Contact the appropriate agency representative for additional detail:
  - 1.1.1. JMA – [TBC]
  - 1.1.2. EUMETSAT – [Markus Dreis, markus.dreis@eumetsat.int]
  - 1.1.3. NOAA: William Dronen, William.dronen@noaa.gov

Register ID (Date)	Interferer Center Frequency (MHz)	Interferer Bandwidth	Affected Satellite(s)	Interferer Signal Characteristics and Detailed Description	Impact Analysis	Regulatory Report Submitted (e.g. ITU, etc.)
DD/MM/YYYY	4xx.xxxxxx	List Bandwidth as appropriate to signal	GOES-# MTG-# ひまわり #	Source - (known/unknown) Discovered - date Type – voice, modulation, carrier, etc. description ITU Emission Class – if known Field Strength/Power Flux Density Activity Pattern Detection Location Comments: Additional Information	Description of how the signal is impacting the DCS	Identify if this signal has been reported to regulatory agency
1/23/2025	401.97355		GOES-East	<b>Source</b> – Suspected at Alotenango, Guatemala. <b>Discovered:</b> Unknown <b>Type:</b> Constant carrier <b>ITU Emission Class:</b> Unknown <b>Field Strength/Power Flux Density:</b> ??dBm <b>Activity Pattern:</b> Constant <b>Detection Location:</b> Microcom LLC facility, Maryland, USA <b>Comments:</b> NOAA has additional signal characteristic data. DUER-?	Interferes with GOES East and West at 401.973532 MHz	No Contact via US Department of State – In Progress
11/23/2025	402.098222		GOES-East	<b>Source</b> - Unknown. <b>Discovered:</b> Unknown <b>Type:</b> Constant carrier <b>ITU Emission Class:</b> Unknown <b>Field Strength/Power Flux Density:</b> ??dBm <b>Activity Pattern:</b> Constant <b>Detection Location:</b> Microcom LLC facility, Maryland, USA <b>Comments:</b> NOAA has additional signal characteristic data.		

Register ID (Date)	Interferer Center Frequency (MHz)	Interferer Bandwidth	Affected Satellite(s)	Interferer Signal Characteristics and Detailed Description	Impact Analysis	Regulatory Report Submitted (e.g. ITU, etc.)
2/27/2025	401.825	12.5 kHz	GOES-East GOES-17	<b>Source</b> Unknown. <b>Discovered</b> 7/3/2024 <b>Type:</b> Modulated Voice <b>ITU Emission Class:</b> Unknown <b>Field Strength/Power Flux Density:</b> 37dBm <b>Activity Pattern:</b> Intermittent <b>Detection Location:</b> Microcom LLC facility, Maryland, USA <b>Comments:</b> NOAA has additional signal characteristic data. DUER-2024-5	Interferes with NOAA DCS channel on 401.824 MHz (Channel 83)	No
1/23/2025	401.850	5 KHz	GOES-East GOES-17	<b>Source</b> Unknown. <b>Discovered</b> 7/3/2024 <b>Type:</b> Modulated Voice <b>ITU Emission Class:</b> Unknown <b>Field Strength/Power Flux Density:</b> 37dBm EIRP <b>Activity Pattern:</b> Intermittent <b>Detection Location:</b> Microcom LLC facility, Maryland, USA <b>Comments:</b> NOAA has additional signal characteristic data. DUER 2024-4	Interferes with NOAA DCS pilot signal on 401.9 MHz. Impact on pilot affects all DCS channels.	No
2/27/2025	401.850	12.5 kHz	GOES-East	<b>Source</b> Unknown. <b>Discovered</b> 7/3/2024 <b>Type:</b> Modulated Voice <b>ITU Emission Class:</b> Unknown <b>Field Strength/Power Flux Density:</b> 37dBm EIRP <b>Activity Pattern:</b> Intermittent <b>Detection Location:</b> Microcom LLC facility, Maryland, USA <b>Comments:</b> NOAA has additional signal characteristic data. DUER 2024-6	Interferes with NOAA DCS pilot signal on 401.9 MHz. Impact on pilot affects all DCS channels.	