

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 – Akihiro Shimizu, aki-shimizu@met.kishou.go.jp
 - 1.1.2. EUMETSAT : Nicholas Coyne, Nicholas.coyne@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
2/19/2025	402.0005	1 Hz	GOES-East	Source - Unknown. Discovered – March 2021. Analyzed and cataloged on 2/19/2025 Type: Carrier ITU Emission Class: Unknown Field Strength/Power Flux Density: 10-20 dBm EIRP Activity Pattern: Constant Detection Location: Microcom LLC facility, Maryland, USA Comments: NOAA has additional signal characteristic data. DUER-?	Interferes with GOES-17 UHF uplink channel at 402.000 (Channels 200 & 500)	No
1/23/2025	401.97355		GOES-East	Source – Suspected at Alotenango, Guatemala. Discovered ??? Type: Constant carrier ITU Emission Class: Unknown Field Strength/Power Flux Density: ??dBm Activity Pattern: Constant Detection Location: Microcom LLC facility, Maryland, USA Comments: NOAA has additional signal characteristic data. DUER-?		
11/23/2025	402.098222		GOES-East	Source - Unknown. Discovered ??? Type: Constant carrier ITU Emission Class: Unknown Field Strength/Power Flux Density: ??dBm Activity Pattern: Constant		

				Detection Location: Microcom LLC facility, Maryland, USA Comments: NOAA has additional signal characteristic data. DUER-?		
2/27/2025	401.701308		GOES-East GOES-17	Source - Unknown. Discovered ??? Type: Constant carrier ITU Emission Class: Unknown Field Strength/Power Flux Density: ??dBm Activity Pattern: Constant Detection Location: Microcom LLC facility, Maryland, USA Comments: NOAA has additional signal characteristic data. DUER-?		
2/27/2025	401.825	12.5 kHz	GOES-East GOES-17	Source Unknown. Discovered 7/3/2024 Type: Modulated Voice ITU Emission Class: Unknown Field Strength/Power Flux Density: 37dBm Activity Pattern: Intermittent Detection Location: Microcom LLC facility, Maryland, USA Comments: 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	Source Unknown. Discovered 7/3/2024 Type: Modulated Voice ITU Emission Class: Unknown Field Strength/Power Flux Density: 37dBm EIRP Activity Pattern: Intermittent Detection Location: Microcom LLC facility, Maryland, USA Comments: 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	Source Unknown. Discovered 7/3/2024 Type: Modulated Voice ITU Emission Class: Unknown Field Strength/Power Flux Density: 37dBm EIRP Activity Pattern: Intermittent Detection Location: Microcom LLC facility, Maryland, USA	Interferes with NOAA DCS pilot signal on 401.9 MHz. Impact on pilot affects all DCS channels.	

				Comments: NOAA has additional signal characteristic data. DUER 2024-6		
2/27/2025	401.867923	5 kHz	GOES-East GOES-17	Source Suspected Lima, Peru Discovered 12/11/2024 Type: Digital Radio ITU Emission Class: Unknown Field Strength/Power Flux Density: TBD dBm EIRP Activity Pattern: Persistent/Active Detection Location: Satellite Geolocation Service Comments: NOAA has additional signal characteristic data. DUER TBD		