

6 February 2023

English only

**Committee on the Peaceful
Uses of Outer Space**
Scientific and Technical Subcommittee
Sixtieth session
Vienna, 6–17 February 2023
Item 16 of the provisional agenda*

Report of the International Telecommunication Union (ITU) on the use of the geostationary orbit (GSO) and other orbits

Note by the Secretariat

I. Introduction

1. At its forty-fifth session, in 2008, the Scientific and Technical Subcommittee of the United Nations Committee on the Peaceful Uses of Outer Space (see [A/AC.105/911](#), para. 184) invited the International Telecommunication Union to make a report concerning its contribution to the peaceful uses of outer space, including the use of the geostationary satellite orbit (GSO) and other orbits. At its fifty-ninth session, in 2022, the Subcommittee invited ITU to continue to submit reports to it ([A/AC.105/1258](#), para. 252).

2. In response to that invitation the Secretariat has received the ITU Radiocommunication Bureau (BR) 2022 Annual Space Services Report to the STSC 2023 session on the use of the geostationary-satellite orbit (GSO) and other orbits. This 2022 version of the report contains additional information on non-geostationary satellite (non GSO) orbits types filed with the ITU, such as: ranges of orbit altitudes, ranges of number of satellites filed, and orbit reference body. In accordance with the information provided by the ITU, the 2022 Report is available, in six languages of the Union in Word format with data annexed in Excel format, and may be downloaded from the following BR web page at:

<https://www.itu.int/en/ITU-R/space/snl/Pages/reportSTS.aspx>

* [A/AC.105/C.1/L.405](#).



Radiocommunication Bureau (BR)



31 January 2023

ITU Radiocommunication Bureau (BR)
2022 Annual Space Services Report to the STSC 2023 Session
on the use of the Geostationary-Satellite Orbit (GSO) and other orbits

In the report of the 46th session of the Scientific and Technical Subcommittee (STSC) of the COPUOS, § 184 the subcommittee invited ITU to make further reports concerning its contribution to the peaceful uses of outer space, including the use of the geostationary-satellite orbit (GSO) and other orbits.

The BR Annual Space Services Report to the STSC 2023 Session on the use of the Geostationary-Satellite Orbit (GSO) and other orbits is available in Excel format:



Accordingly, please find in the Excel files:

ANNEX 1A - List of geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2022** in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations. Sorted by Administration and satellite name. Each satellite network is listed only once with its highest regulatory status (N, C or A).

ANNEX 1B - List of non-geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2022** in application of the provisions of Article 9 (Advance Publication Information - A or Coordination Request - C) and/or Article 11 (Notification - N) of the Radio Regulations. Sorted by Administration and satellite name. Each satellite network is listed only once with its highest regulatory status (N, C or A).

Altitudes Range (from-to) (km) in Filed_altitude range Min Filed_altitude range Max	Range No.
0-1999	1
2000-35785	2
35786-398999	3
>399000	4

Range of number of satellites (from – to) in SumOfnbr-sat range	Range No.
1	1
2-14	2
15-99	3
100-999	4
1000-9999	5
>10000	6

ANNEX 2 - Appendices **30** & **30A** of the Radio Regulations - List of geostationary-satellite networks in the Broadcasting-Satellite Service (BSS) and its associated feeder links communicated and published in application of the provisions of Article 4 of Appendices **30** and **30A**. Sorted by administration and satellite name.

ANNEX 3 – Appendix **30B** of the Radio Regulations - List of geostationary-satellite networks in the Fixed-Satellite Service (FSS) communicated and published in application of the provisions of Articles 6 and 7 of Appendix **30B**. Sorted by administration and satellite name.

ANNEX 4 – Statistics.

Table 4.1: Satellite filings (network) and regulatory status (in application of the provisions of Article 9 and/or Article 11 of the Radio Regulations) (A = Network in API stage, C = Network in coordination stage, N = Network in notification stage)

Table 4.2: Count of unique filings (networks) per administration (in application of the provisions of Article 9 and/or Article 11 of the Radio Regulations)

ANNEX 5 - Description of the columns in the list.

For more information about the *status* of any network in the list, please see – **Space Networks List** (SNL) online at: <http://www.itu.int/ITU-R/space/snl/>

For more information about the *description* of the space services database and related Parts and Special Sections, please see the **Space Preface** at: <http://www.itu.int/ITU-R/go/space-preface/en>

Annex 4

STATISTICS TABLE 4.1: SATELLITE FILINGS (NETWORK) AND REGULATORY STATUS
(IN APPLICATION OF THE PROVISIONS OF ARTICLE 9 AND/OR ARTICLE 11 OF THE RADIO REGULATIONS)
 (A = Network in API stage, C = Network in coordination stage, N = Network in notification stage)

Year	Networks	TOTAL	A	C	N
2022	GSO	3078	26	1645	1407
	Non-GSO	1817	826	324	667
	TOTAL	4895	852	1969	2074
2021	GSO	3419	19	2031	1369
	Non-GSO	1638	724	269	645
	TOTAL	5057	743	2300	2014
2020	GSO	3404	19	2055	1330
	Non-GSO	1405	610	217	578
	TOTAL	4809	629	2272	1908
2019	GSO	3298	15	2038	1245
	Non-GSO	1144	479	147	518
	TOTAL	4442	494	2185	1763
2018	GSO	3371	N/A[1]	2152	1215
	Non-GSO	1066	448	132	486
	TOTAL	4437	452	2284	1701
2017	GSO	3292	N/A[1]	2148	1136
	Non-GSO	890	376	89	425
	TOTAL	4182	384	2237	1561
2016	GSO	4971	1841	2020	1110
	Non-GSO	766	311	56	399
	TOTAL	5737	2152	2076	1509
2015	GSO	5656	2782	1773	1101
	Non-GSO	696	272	43	381
	TOTAL	6352	3054	1816	1482
2014	GSO	4641	1902	1654	1085
	Non-GSO	611	190	42	379
	TOTAL	5252	2092	1696	1464
2013	GSO	4017	1520	1418	1079
	Non-GSO	566	157	41	368
	TOTAL	4583	1677	1459	1447
2012	GSO	3993	1688	1264	1041
	Non-GSO	545	155	37	353
	TOTAL	4538	1843	1301	1394
2011	GSO	3371	1162	1188	1021
	Non-GSO	509	132	37	340
	TOTAL	3880	1294	1225	1361

Year	Networks	TOTAL	A	C	N
2010	GSO	3133	966	1115	1052
	Non-GSO	495	139	36	320
	TOTAL	3628	1105	1151	1372
2009	GSO	3166	1043	1109	1014
	Non-GSO	520	186	36	298
	TOTAL	3686	1229	1145	1312
2008	GSO	3126	1017	1249	860
	Non-GSO	438	115	35	288
	TOTAL	3564	1132	1284	1148