

25 January 2018

English only

**Committee on the Peaceful
Uses of Outer Space
Scientific and Technical Subcommittee
Fifty-fifth session**

Vienna, 29 January–9 February 2018

Item 15 of the provisional agenda*

Examination of the physical nature and technical attributes of the geostationary orbit and its utilization and applications, including in the field of space communications, as well as other questions relating to developments in space communications, taking particular account of the needs and interests of developing countries, without prejudice to the role of the International Telecommunication Union

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

Note by the Secretariat

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-third session, in 2016, the Subcommittee invited ITU to continue to submit reports to it ([A/AC.105/1109](#), para. 251).

2. In response to that invitation the Secretariat has received the ITU Radiocommunication Bureau (BR) 2017 Annual Space Report to STS-18 on the use of the geostationary-satellite orbit (GSO) and other orbits. The Report is available in six languages of the Union in PDF or CSV spreadsheet format (Annex 1 only) and may be downloaded from the BR webpage at:

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

* [A/AC.105/C.1/L.363](#).





ITU Radiocommunication Bureau (BR) 2017 Annual Space Report to the STS-18 on the use of the geostationary-satellite orbit (GSO) and other orbits

In the **report of the 45th session of the Scientific and Technical Subcommittee (STS) of 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.*

Accordingly, please find attached:

ANNEX 1A - List of geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2017** 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.

ANNEX 1B - List of non-geostationary space networks for which information has been communicated to the ITU Radiocommunication Bureau **up to 31.12.2017** 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.

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.

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.

ANNEX 4 – Statistics.

ANNEX 5 - Description of the columns in the list.

The **ITU BR Annual Space Report to the STS-18 on the use of the geostationary-satellite orbit (GSO) and other orbits** is available in six languages of the Union in PDF or CSV spreadsheet format (**Annex 1 only**) and may be downloaded from the BR webpage at: <http://www.itu.int/ITU-R/space/snl/report/>

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 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		A	C	N
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
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

¹ Following a decision by the World Radiocommunication Conference of 2015 (WRC-15), API have ceased to apply to satellite networks or systems subject to coordination procedure under Section II of Article 9 from 1st January 2017. The number of filings shown from 2017 will therefore be only related to API on satellite networks or systems not subject to coordination procedure under Section II of Article 9.

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)

Total count – 94 administrations

ADM	A	C	N	TOTAL
AFS	2			2
ALG	2	6	1	9
ARG	5	4	3	12
ARM		1		1
ARS/ARB		34	14	48
ARS		2	5	7
AUS		12	27	39
AUT			1	1
AZE		8	1	9
B	5	22	24	51
BEL	5		4	9
BLR		2	1	3
BOL		1		1
BUL		4	1	5
CAN	8	30	36	74
CHL			2	2
CHN	38	137	132	307
CLM/ASA			1	1
CLM	1	3		4
CTI/RAS			1	1
CTR	1			1
CYP	3	68	2	73
CZE		4	1	5
D/EUM		4	4	8
D/GLS			1	1
D	15	28	23	66
DNK	4	1	1	6
E	7	92	17	116
EGY	1	27	3	31
EST	1		1	2
ETH		6		6
F/ESA	3		29	32
F/EUT			28	28
F/GLS		1	4	5
F	34	395	68	500
FIN	3		1	4
G	11	201	64	276

ADM	A	C	N	TOTAL
GRC			2	2
HNG	1		1	2
HOL	5	75	41	121
I/GLS			1	1
I	8	12	10	30
IND	17	64	60	141
INS		25	20	45
IRN	4	24	6	34
IRQ		4		4
ISR	4	58	5	67
J	34	70	108	212
JOR	1			1
KAZ	3	18	6	27
KEN	1			1
KOR	12	31	16	59
LAO		4		4
LIE	1	2		3
LTU			3	3
LUX	4	91	15	110
LVA	1		1	2
MAU		1		1
MCO		4		4
MEX	2	24	9	35
MLA	2	34	13	49
MLD		1		1
MNG		1		1
MRC			1	1
NCG		5		5
NIG	2	1		3
NOR	8	81	3	92
NZL	2	2		4
PAK	6	3	3	12
PHL			1	1
PNG		83	10	93
POL	2		1	3
POR	1			1
PRU	1			1
QAT		41		41
ROU	1			1
RUS/IK		12	10	22
RUS	7	56	183	247
S/NOT	1		1	2
S	2	26	8	36

ADM	A	C	N	TOTAL
SLM		2		2
SNG	8	4	7	19
SUI	1	12	3	16
SVK	1			1
SVN			1	1
THA	1	12	14	27
TON			7	7
TUR	1	15	16	32
UAE	3	108	16	127
UKR	1	3	2	6
URG	1		1	2
USA	72	128	450	654
VEN	1		1	2
VTN	4	7	4	15
TOTAL	384	2237	1561	4182