



ITU Workshop on Satellite Communications

The ITU : Challenges in the 21st. Century

Preventing Harmful Interference to Satellite Systems

Statistics on Cases of Harmful Interference Reported to BR

Geneva, 10 June 2013

Introductory Remarks:

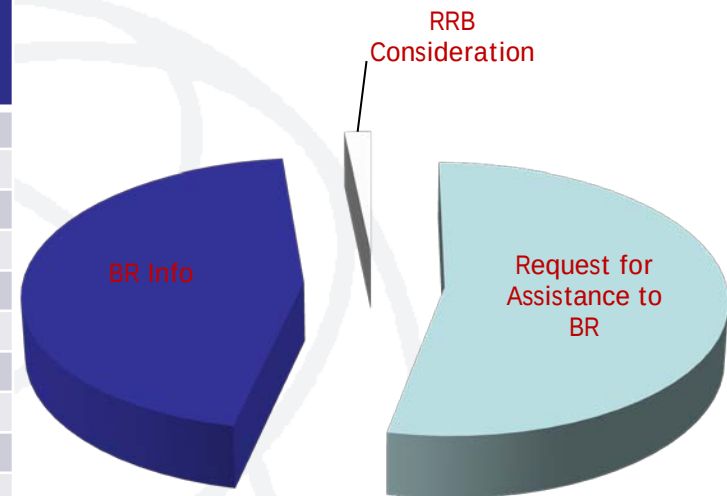


- ☐ **This presentation is given in response to requests from participants during today's morning session of this workshop.**
- ☐ **Statistics are based on Information and Statements provided by Notifying Administrations to the Bureau**
- ☐ **One Case of Harmful Interference Reported to BR may involve several short or long time occurrences.**

BR Director's Report to RRB



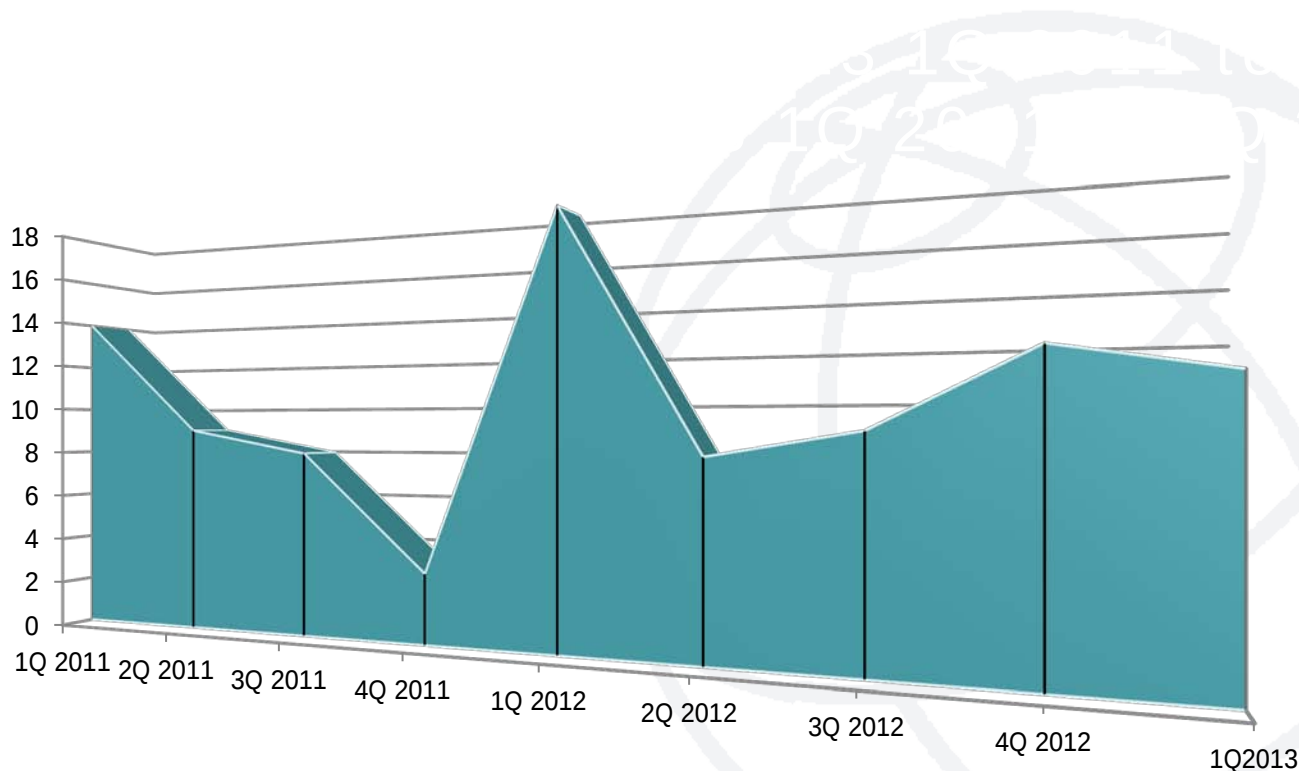
Period	No. Of Cases	Adms. involved	For BR information (RR15.41)	For BR action/Request for assistance (RR15.42)	For RRB consideration (RR13.2/RR13.3)
01.2012	10	9	5	5	0
02.2012	3	5	1	2	0
03.2012	5	8	2	3	0
04.2012	2	4	1	1	0
05.2012	3	5	1	2	0
06.2012	3	5	1	2	0
07.2012	3	5	2	1	0
08.2012	4	6	2	2	0
09.2012	2	1	0	2	0
10.2012	9	7	7	2	0
11.2012	2	3	2	0	0
12.2012	1	2	1	0	0
01.2013	7	8	5	2	0
02.2013	4	5	2	2	0
03.2013	0	0	0	0	0
04.2013	1	2	0	1	0



Latest Statistics on Interference



Cases of Harmful Interference reported to ITU/BR 1Q 2011 - 1Q2013



Affected Services:

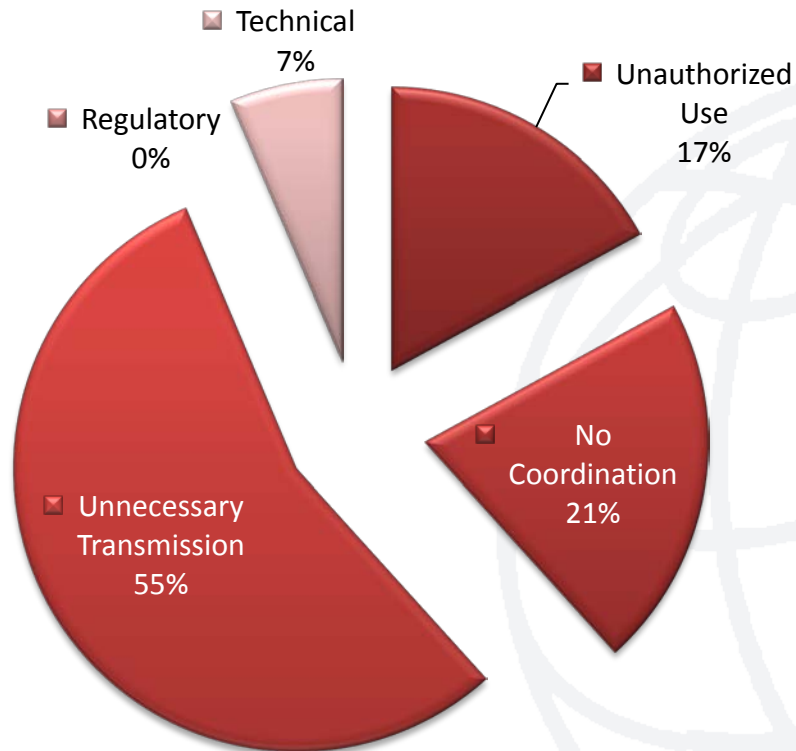
FSS, BSS, MSS, EESS, RNSS

Affected Freq. Bands:

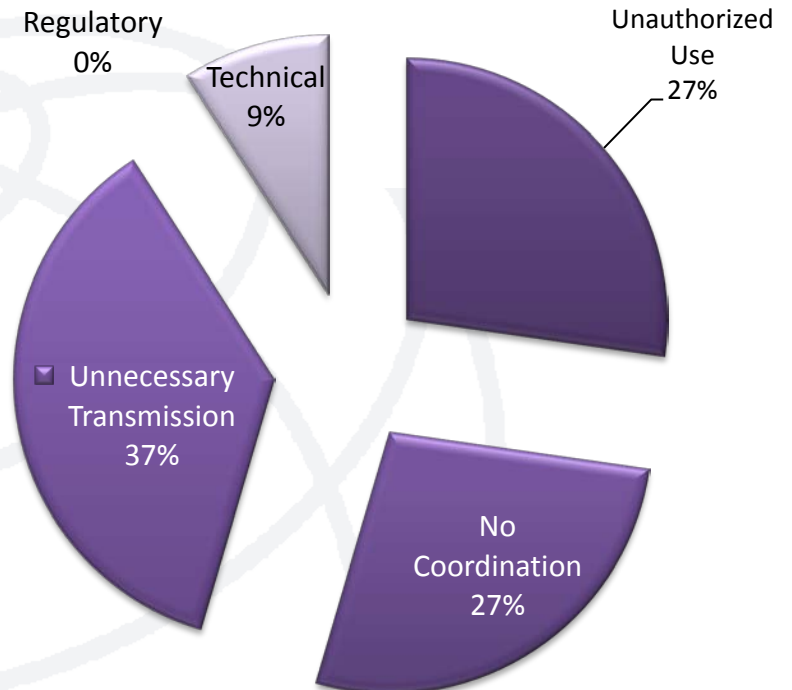
1.2	GHz
1.5 / 1.6	GHz
2.2	GHz
3/4, 5/6	GHz
10-14	GHz
17/18	GHz

Nature of Interference

2012

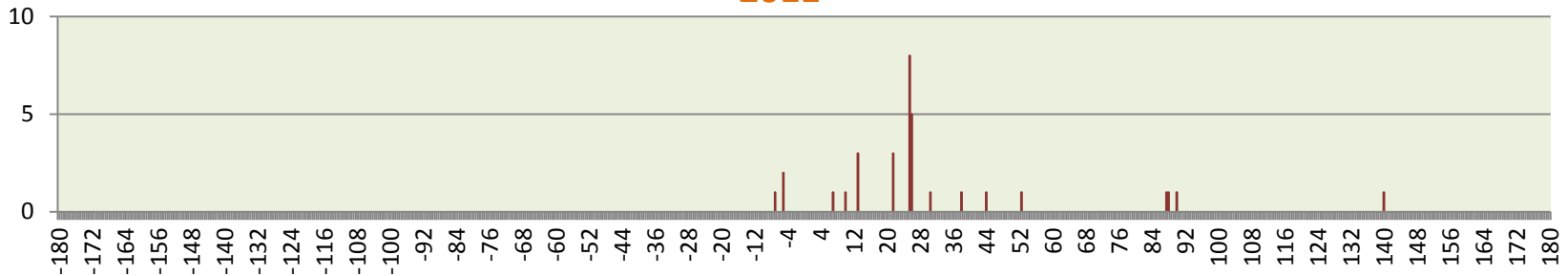


1Q 2013

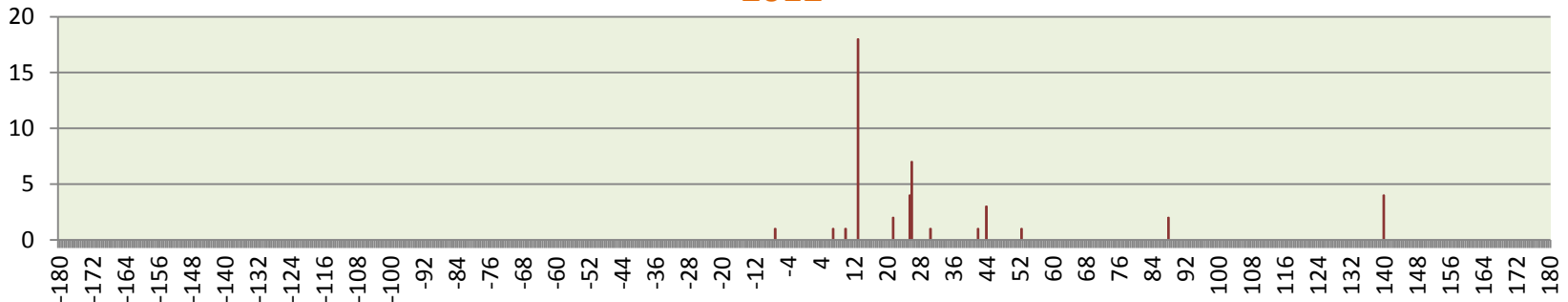


Distribution along GSO

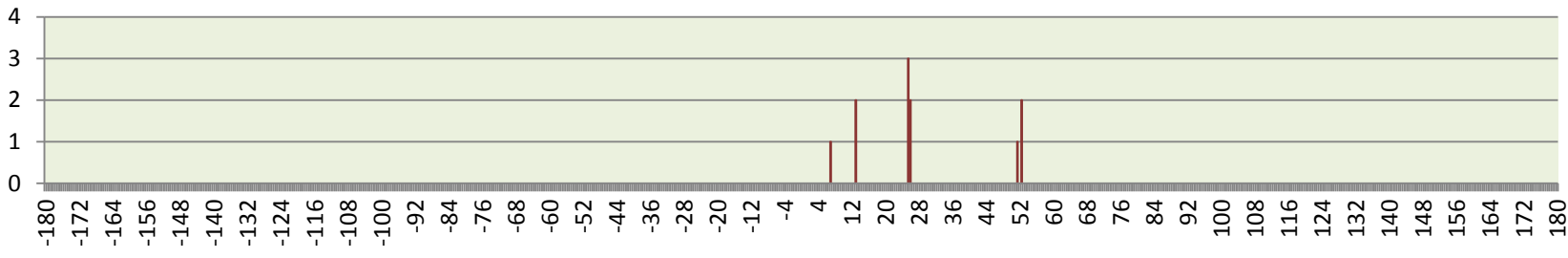
2011



2012



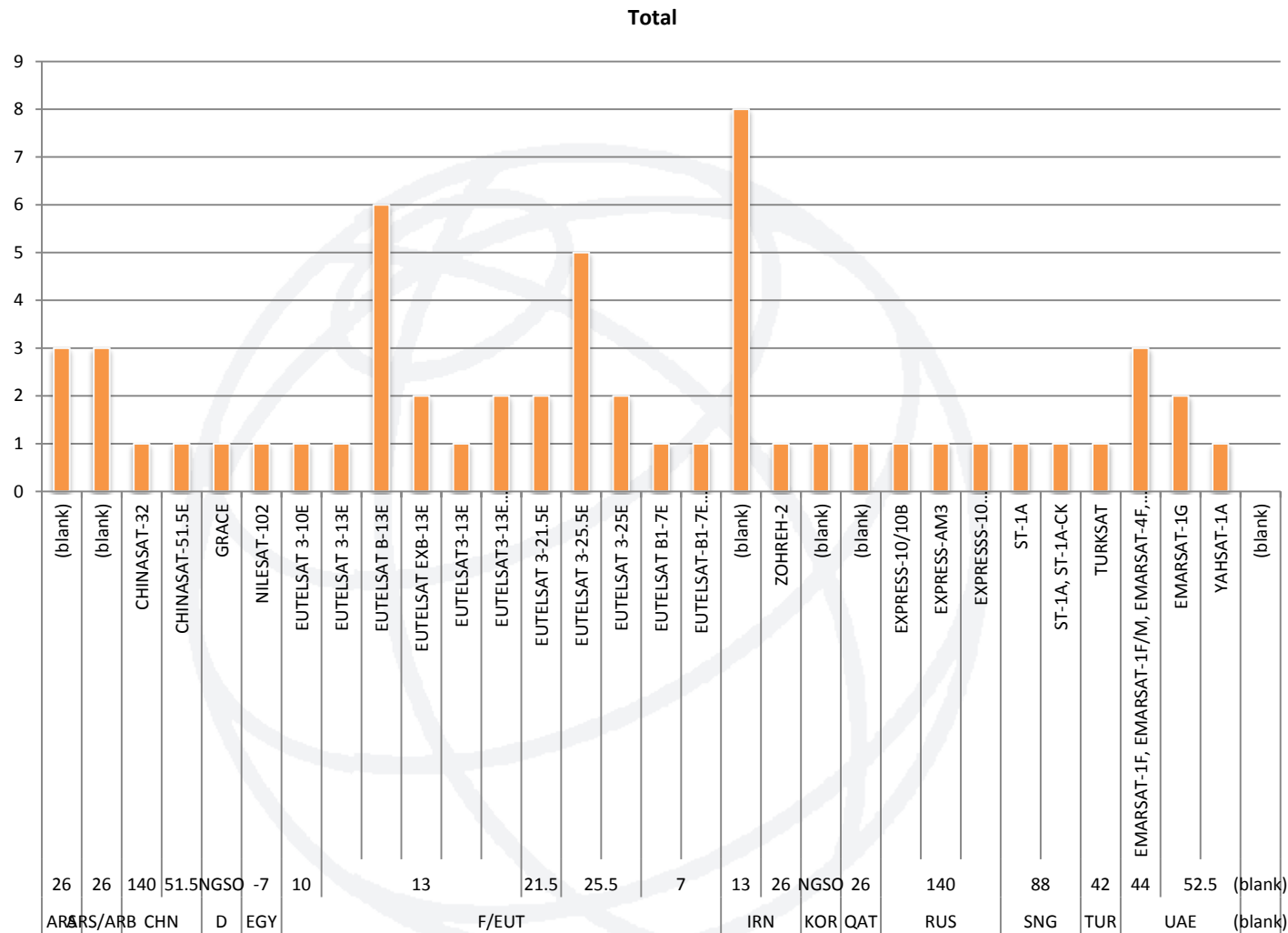
1Q 2013



Breakdown by Satellite Network / Orbital Position Notifying Administration



ARS	3
26	3
(blank)	3
ARS/ARB	3
26	3
(blank)	3
CHN	2
140	1
CHINASAT-32	1
51.5	1
CHINASAT-51.5E	1
D	1
NGSO	1
GRACE	1
EGY	1
-7	1
NILESAT-102	1
F/EUT	24
10	1
EUTELSAT 3-10E	1
13	12
EUTELSAT 3-13E	1
EUTELSAT B-13E	6
EUTELSAT EXB-13E	2
EUTELSAT3-13E	1
EUTELSAT3-13E	2
EUTELSAT B-13E	2
21.5	2
EUTELSAT 3-21.5E	2
25.5	7
EUTELSAT 3-25.5E	5
EUTELSAT 3-25E	2
7	2
EUTELSAT B1-7E	1
EUTELSAT B1-7E	1
EUTELSAT EXB-7E	1
IRN	9
13	8
(blank)	8
26	1
ZOHREH-2	1
KOR	1
NGSO	1
(blank)	1
QAT	1
26	1
(blank)	1
RUS	3
140	3
EXPRESS-10/10B	1
EXPRESS-AM3	1
EXPRESS-10	1
EXPRESS-10B	1
SNG	2
88	2
ST-1A	1
ST-1A, ST-1A-CK	1
TUR	1
42	1
TURKSAT	1
UAE	6
44	3
EMARSAT-1F, EMARSAT-1F/M, EMARSAT-4F,	3
EMARSAT-7F	3
52.5	3
EMARSAT-1G	2
YAHSAT-1A	1



Interference to NGSO networks



2011

- 2 Cases of Interference associated to NGSO
- 1 of them impacting Earth Station operating TT&C

2012

- 2 NGSO networks were impacted:
- Earth Exploration Satellite Service (EESS)
- Mobile and land earth stations receivers in the Radio Navigation Satellite Service (RNSS)

2013

- Nothing reported up to date

A large, faint, light gray globe is centered in the background of the slide. It is composed of several overlapping circles that create a wireframe effect.

Thank You !
