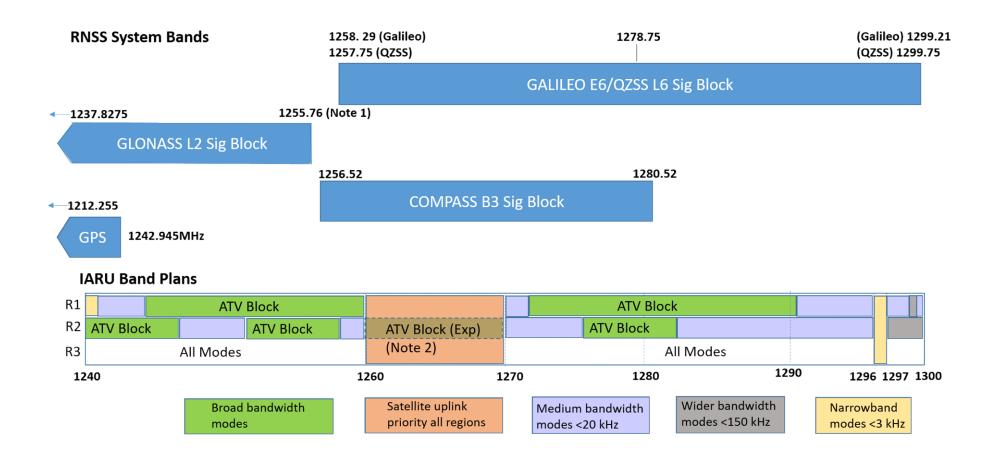


Amateur / RNSS Coexistence in the 23cm band

- Barry Lewis G4SJH
- IARU Lead on WRC23 AI9.1b
- June 2023 Update

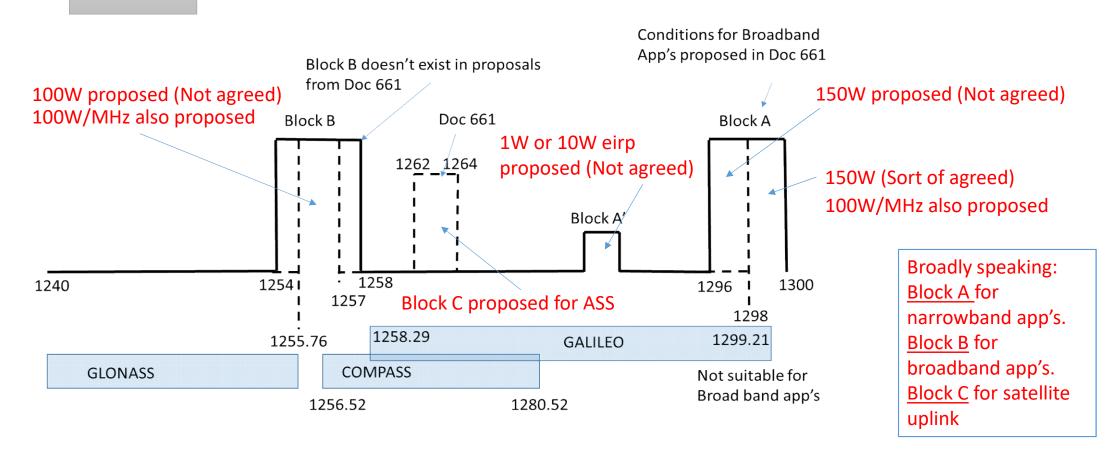


The RNSS systems within the scope of studies



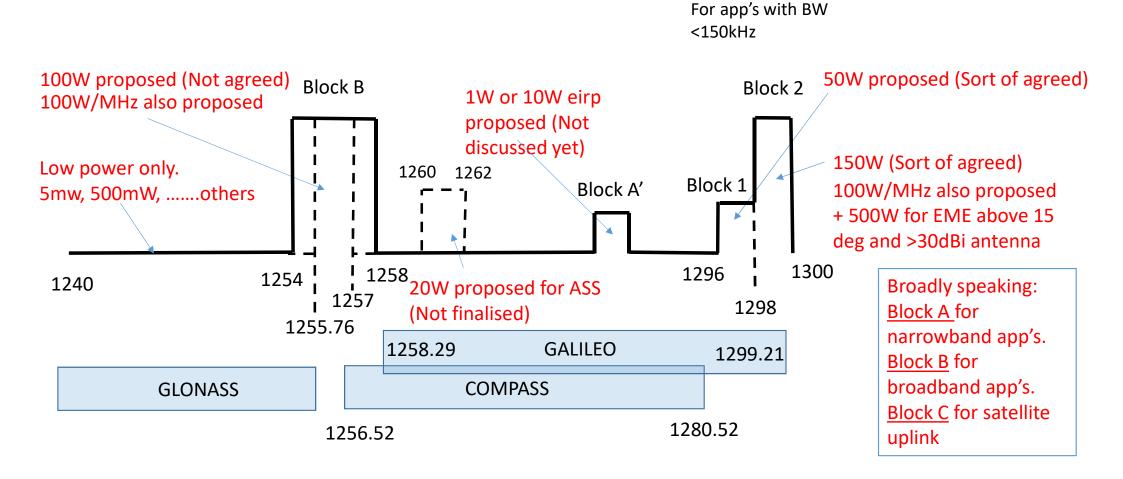


April 2023

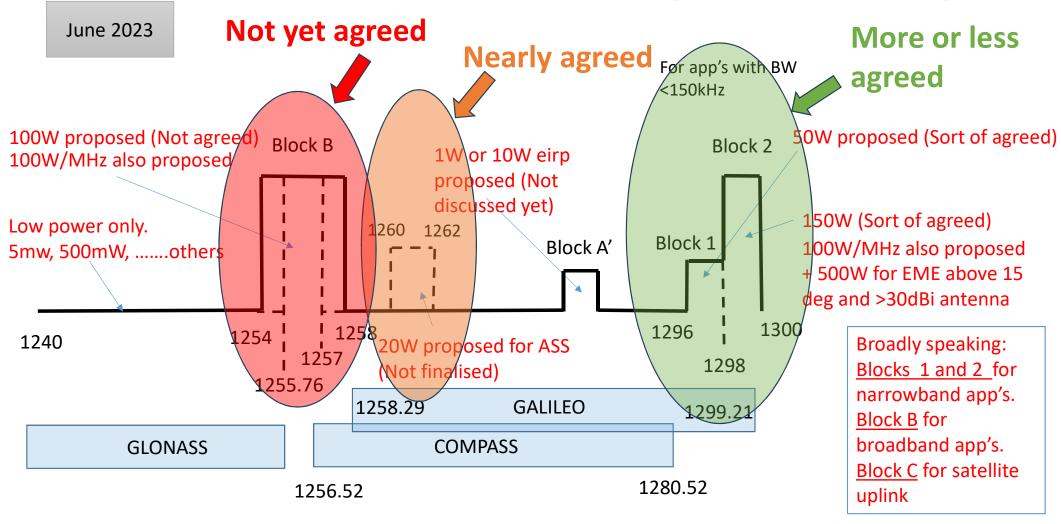




June 2023







Block B options:	IARU Proposed
Narrow band Applications	Broadband Applications
1254 – 1258 MHz @ 100W	1 254-1 258 MHz; [Maximum transmitter power = [100W][100W/1MHz]]
1255 – 1257 MHz @ 100W	1 255-1 257 MHz; [Maximum transmitter power = [100W][100W/1MHz]]
1258 – 1260 MHz @ xxW	1 258-1 260 MHz; [Maximum EIRP – xx dBW/yy MHz]
1255 – 1257 MHz @ 100W for Regions 2 ar	nd 3
1258 – 1260 MHz @ xxW for Region 1	

IARU does not support any EIRP or spectral density proposal.

- Amateur Satellite Service (Block C)
 - 1 260-1 262 MHz; Maximum EIRP = [28.0] dBW/150 kHz.
 - This equates to around 10W.
 - Spectral density aspect not preferred.
- Outside the identified blocks for very low power experimental applications:
 - A max power = [500 mW][100 mW][5 mW] or [EIRP =-xx dBW per yy MHz.]
 OR:
 - exclude [1 263.75-1 293.75] MHz and [1 259.25-1 277.25] MHz [1240 1261 MHz and 1 262-1 293.75 MHz] for national licensing and assignments of ATV

- Other Aspects still under discussion:
 - "...it is recommended amateur satellites stations only operate when elevation angle exceeds 45 Deg, in order to alleviate the potential interference to nearby RNSS receivers"
 - "amateur stations need not to be deployed at a distance of less than 20 km from airports".
 - "administrations should be mindful about the location of amateur stations in order to avoid pointing of the station antenna pattern peak in the direction of airports and air corridors for aircraft flights."
 - "the main lobe of the amateur station antenna pattern need not to be directed in the $\pm 30^{\circ}$ sector towards the airport, located at less than 100 km from such amateur station"
 - the main lobe of the amateur station antenna pattern need not to be directed in the $\pm 10^{\circ}$ sector towards the airport, located at less than 120 km from such amateur station (for amateur-satellite service uplink).
- IARU sees no need for any of these provisions.
- Next WP5A Meeting: Sept 14 22