

Report of the UHF / Microwave Band Plan Committee  
ARRL Board of Directors  
July, 2013

The UHF / Microwave Band Plan Committee, having completed its assigned work to the point of Board review and approval, is pleased to submit this report to the Board.

Background

At its July, 2011 meeting, the Board authorized the formation of a committee to review and update the ARRL's published band plans for the 33 cm, 23 cm, 13 cm and 9 cm Amateur bands. The Committee, which was chaired by Mr. Roderick, completed its work in 2012, and the Board approved the resulting band plans at its July, 2012 meeting. Subsequently, the Executive Committee requested that the Committee extend the scope of its work and update the band plans for the 5 cm and 3 cm bands.

Committee Activities

During the winter of 2012, members of the Committee updated its outreach materials for the two additional bands and used them in gathering input from the Amateur Radio community. Based on that input, members of the Committee drafted plans for each of the bands under review. After internal discussion and review, both draft plans were published for comment in March, 2013 with a comment period of just over one month. We evaluated and responded to the comments received, and we made appropriate modifications to the draft band plans to address the issues raised in those comments.

Current Status

The Committee has prepared final band plans for 5 cm and 3 cm. Each plan has three components: a table, a set of accompanying notes and a graphic representation to aid in visualizing the plan. These plans are included in this report as Attachments A and B, respectively, for your reference. Attachment C contains the current band plans for comparison. Please note that the final layouts and coloring may vary from what is presented here. The Committee will be pleased to answer any questions you may have and intends to submit a motion for Board approval of these band plans during the July, 2013 meeting.

Actions Upon Board Approval

We will ask that the ARRL in-house graphics team produce the final versions of the plans for publication. Our Committee members will review the final products for accuracy and consistency before releasing them for publication.

Our release of each approved band plan will include a reminder that the purpose of these band plans is to share information about how our bands are being used and to suggest compatible frequency ranges for various types of application. We recognize that local conditions or needs

may necessitate deviations from a national band plan, and our published plan will make clear that regional frequency coordinating bodies may recommend alternatives for use in their respective regions.

Respectfully submitted,

Rick Roderick K5UR, Chair

Committee members:  
Rod Blocksome K0DAS  
Paul Rinaldo W4RI  
Dave Sumner K1ZZ  
Marty Woll N6VI

**Proposed 5 CM Band Plan**

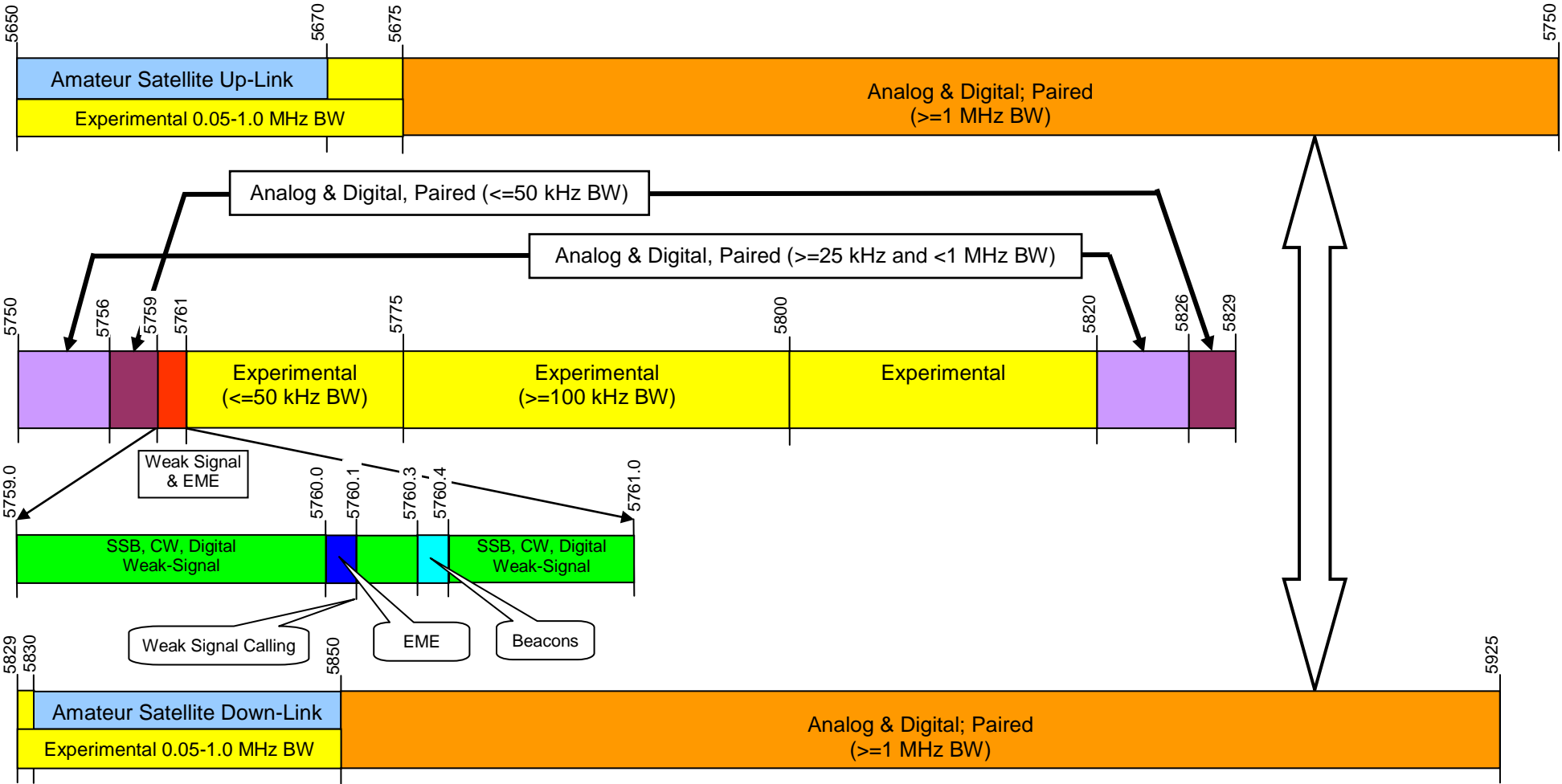
Frequency Range (MHz)		Emission Bandwidth	Functional Use
From	To		
5650.0	5670.0		Amateur Satellite; Up-Link Only
5650.0	5675.0	0.05-1.0 MHz	Experimental
5675.0	5750.0	$\geq 1.0$ MHz	Analog & Digital; paired with 5850 - 5925 MHz (Note 2)
5750.0	5756.0	$\geq 25$ kHz and $< 1$ MHz	Analog & Digital; paired with 5820 - 5826 MHz
5756.0	5759.0	$\leq 50$ kHz	Analog & Digital, paired with 5826 - 5829 MHz
5759.0	5760.0	$< 6$ kHz	SSB, CW, Digital Weak-Signal
5760.0	5760.1	$< 3$ kHz	EME
5760.1	5760.3	$< 6$ kHz	SSB, CW, Digital Weak-Signal (Note 1)
5760.3	5760.4	$< 3$ kHz	Beacons
5760.4	5761.0	$< 6$ kHz	SSB, CW, Digital Weak-Signal
5761.0	5775.0	$\leq 50$ kHz	Experimental
5775.0	5800.0	$\geq 100$ kHz	Experimental
5800.0	5820.0		Experimental
5820.0	5826.0	$\geq 25$ kHz and $< 1$ MHz	Analog & Digital, paired with 5750 - 5756 MHz
5826.0	5829.0	$\leq 50$ kHz	Analog & Digital, paired with 5756 - 5759 MHz
5829.0	5850.0	0.05-1.0 MHz	Experimental
5830.0	5850.0		Amateur Satellite; Down-Link Only
5850.0	5925.0	$\geq 1.0$ MHz	Analog & Digital; paired with 5675 - 5750 MHz (Note 2)

## Notes to 5 cm Band Plan

**Note 1: 5760.100 is the National Weak-Signal Calling Frequency**

**Note 2: Broadband segment may be used for any combination of high-speed data (e.g., 802.11 protocols), Amateur Television and other high-bandwidth activities. Division into channels and/or separation of uses within this segment may be done regionally based on needs and usage.**

### Proposed Band Plan for the Amateur 5 cm Band (5650 – 5925 MHz)



**Proposed 3 CM Band Plan**

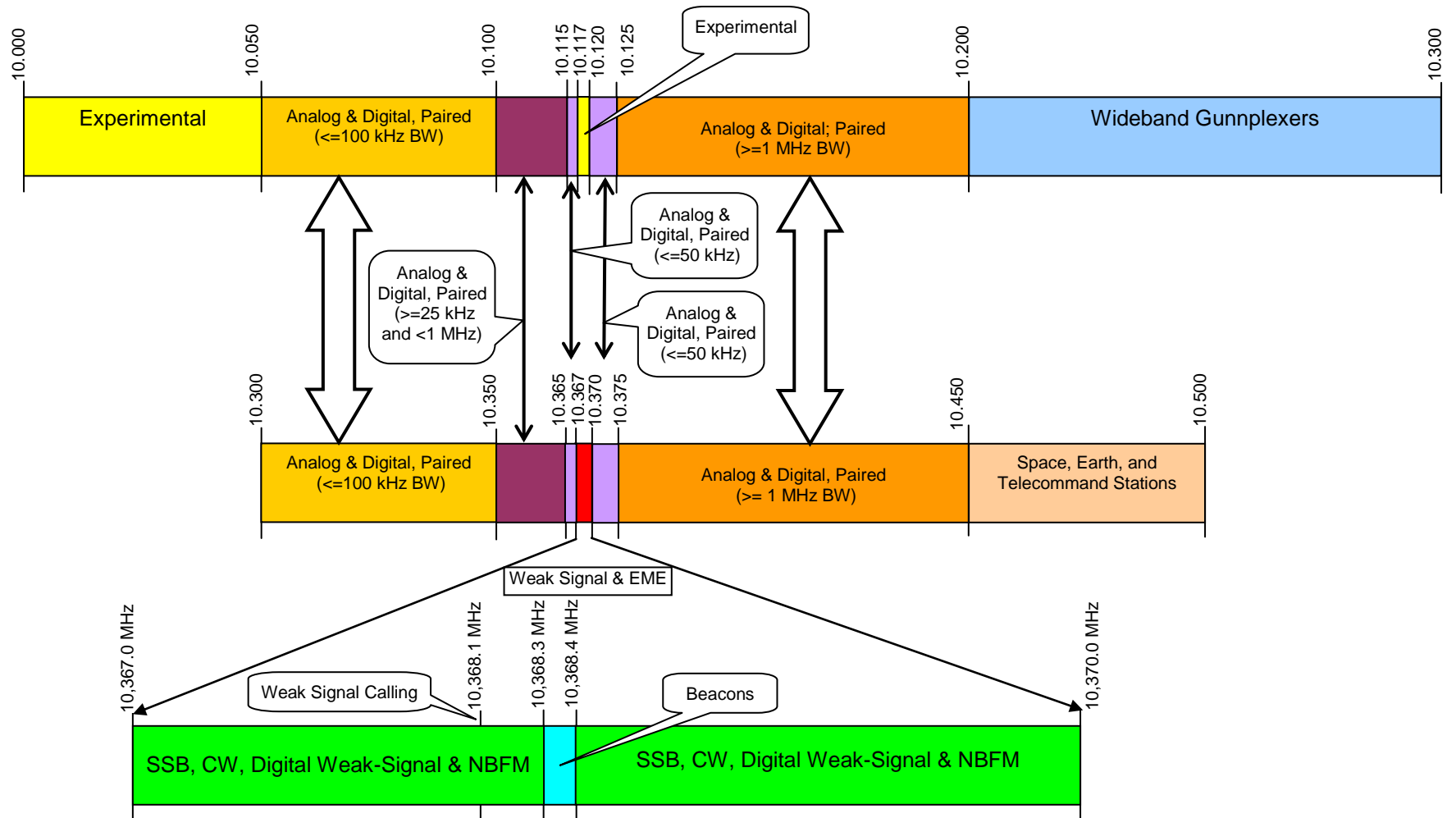
Frequency Range (MHz)		Emission Bandwidth	Functional Use
From	To		
10000.000	10050.000		Experimental
10050.000	10100.000	<= 100 kHz	Analog & Digital; paired with 10300-10350
10100.000	10115.000	>= 25 kHz and < 1 MHz	Analog & Digital; paired with 10350-10365
10115.000	10117.000	<= 50 kHz	Analog & Digital, paired with 10365 - 10367
10117.000	10120.000		Experimental
10120.000	10125.000	<= 50 kHz	Analog & Digital; paired with 10370-10375
10125.000	10200.000	>= 1 MHz	Analog & Digital; paired with 10375-10450 (Note 2)
10200.000	10300.000		Wideband Gunnplexers
10300.000	10350.000	<= 100 kHz	Analog & Digital, paired with 10050 - 10100
10350.000	10365.000	>= 25 kHz and < 1 MHz	Analog & Digital, paired with 10100 - 10115
10365.000	10367.000	<= 50 kHz	Analog & Digital, paired with 10115 - 10117
10367.000	10368.300	6 kHz or less	SSB, CW, digital weak-signal & NBFM (Note 1)
10368.300	10368.400	6 kHz or less	Beacons
10368.400	10370.000	6 kHz or less	SSB, CW, digital weak-signal & NBFM
10370.000	10375.000	<= 50 kHz	Analog & Digital; paired with 10120-10125
10375.000	10450.000	>= 1 MHz	Analog & Digital; paired with 10125-10200 (Note 2)
10450.000	10500.000		Space, Earth & Telecommand Stations

## Notes to 3 cm Band Plan

**Note 1: 10368.100 is the National Weak-Signal Calling Frequency**

**Note 2: Broadband segment may be used for any combination of high-speed data (e.g., 802.11 protocols), Amateur Television and other high-bandwidth activities. Division into channels and/or separation of uses within this segment may be done regionally based on needs and usage.**

### Proposed Band Plan for the Amateur 3 cm Band (10.000 – 10.500 GHz)





**Existing ARRL Band Plan for 5 cm Band (5650 – 5925 MHz)**

**Adopted by the ARRL Board of Directors in July 1988**

**5760.3 – 5760.4      Propagation beacons**

**Existing ARRL Band Plan for 3 cm Band (10.0 – 10.5 GHz)**

**Adopted by the ARRL Board of Directors in January 1987**

**10.368.1 GHz      Narrow-band calling frequency**