

# International Consortium for Telemetry Spectrum Region II Coordinator Spring 2002 Report

Mr. Charles Glass of the National Telecommunications & Information Administration has been selected to be the USA point man for addressing the ITU-R 231-1/8 Wideband Aeronautical Telemetry (ATM) Augmentation Questionnaire. To further this effort:

- several ICTS Region II Members participated in Mr. Glass's periodic meetings with his ad-hoc Telemetry Experts Group,
- I distributed copies of Mr. Gehrig's (Deputy Director Resources and Ranges USA DoD) Data Call Questionnaire ("Aeronautical Telemetry Requirements for Frequencies <3 GHz") to both ICTS Region II Members and Range Commanders Council Frequency Management Group Members, and
- I helped the NAVAIRWARCENACDIV Patuxent River MD USA prepare our response to the Gehrig Questionnaire.

To aid in our search for this new ATM band, I previously compiled a survey detailing the USA-usage of the two current candidate bands: 4.4-4.99 & 14.7145-15.1365 GHz. Recently I further refined the survey (see page 2) by:

- choosing the likely sites (with 200 mile radius) where this new wide-band flight testing would be utilized,
- plotting and breaking-down the number of assignments (in the two proposed bands) around the 11 candidate sites into 100 MHz sub-bands and,
- finding the gaps in the candidate bands where this new ATM band augmentation can be accommodated.

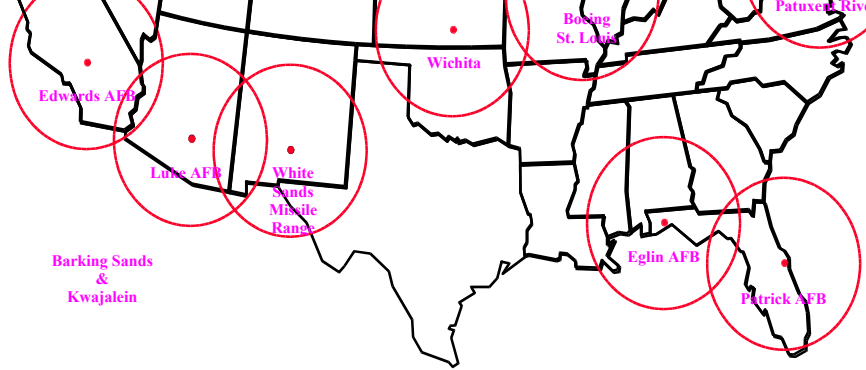
Although more study needs to be made, the 4.5-4.7 (200 MHz wide), 4.884-4.99 (106 MHz wide) & 14.87-15.1 GHz (130 MHz wide) sub-bands look promising.

Although no new Region II Members have been recruited the past six months, the list has been updated, corrected and approved by the current ICTS Members for full ICTS Membership. Canadian telemetry experts have expressed interest in joining soon, and have provided us with the following data for the ICTS Worldwide Telemetry Use Matrix:

1435-1535	FIXED, MOBILE		NIB to CA DARS 1452-1492 MHz
2300-2483.5	FIXED, MOBILE RADIOLOCATION, Amateur	UAVs, Drones	NIB to CA DARS 2320-2345 MHz Note 2360-2400 MHz reserved for Government of Canada exclusively
4460-4540 4900-4990	FIXED, MOBILE	TRR, UAVs planned.	Bands reserved for Government of Canada Exclusively. Assignment plan may be adjusted due to harmonization issues.

Also, in May 2002 Australia updated their contribution to the Matrix, and we are expecting further data from Brazilian and Chinese telemetry experts.





**Assignments in the 4.4-4.99 GHz Band at 11 Sites (200 MIRAD)**

	4.4-4.5	4.5-4.6	4.6-4.7	4.7-4.8	4.8-4.9	4.9-4.99	“Open” Bands (Size in MHz)
NAWCAD PAX River	29	16	14	17	13	21	4.59-4.637(47), 4.68-4.725(40), 4.784-4.832(48)
Patrick AFB	14	4	4	13	5	5	4.5-4.56(60), 4.5-4.7(200), 4.784-4.99(206),
Eglin AFB	0	0	0	0	0	3	4.4-4.9(500)
Boeing St. Louis	2	2	3	9	10	2	4.4-4.67(270), 4.884-4.99(106)
Wichita	0	0	0	0	0	0	4.4-4.99(590)
White Sands Missile Range	19	17	13	25	20	14	4.485-4.52(35), 4.66-4.7(40)
Luke AFB	20	9	9	14	12	8	4.445-4.48(35), 4.535-4.59(55), 4.727-4.775(48), 4.85-4.92(70)
Edwards AFB	61	31	29	47	35	28	
Boeing Seattle	11	8	21	27	31	6	4.478-4.56(82), 4.685-4.755(60), 4.884-4.97(86)
Barking Sands	5	2	4	6	7	1	4.445-4.637(192), 4.895-4.99(95)
Kwajalein	0	0	0	0	0	0	4.4-4.99(590)
<b>Totals</b>	<b>161</b>	<b>89</b>	<b>97</b>	<b>158</b>	<b>133</b>	<b>88</b>	

**Assignments in the 14.7145-15.1365 GHz Band at 11 Sites (200 MIRAD)**

	14.7145-14.8	14.8-14.9	14.9-15.0	15.0-15.1365	“Open” Bands (Size in MHz)
NAWCAD PAX River	6	1	0	7	14.73-15.0(270), 15.05-15.13(80)
Patrick AFB	3	2	2	6	14.7145-14.83(116), 14.92-15.0(80), 5.05-15.13(80)
Eglin AFB	0	2	3	4	14.7145-14.845(131), 14.87-15.02(150), 15.07-15.1365(266)
Boeing St. Louis	1	0	0	0	14.7145-15.1365(422)
Wichita	1	0	0	0	14.7145-15.1365(422)
White Sands Missile Range	12	6	6	16	14.73-14.78(50), 14.82-14.93(110),
Luke AFB	8	14	4	6	14.765-14.815(50), 14.881-14.98(99)
Edwards AFB	4	8	4	6	14.75-14.86(110), 14.9-14.99(90), 15.05-15.1365(86)
Boeing Seattle	44	31	5	4	14.872-14.993(121), 14.995-15.093(98)
Barking Sands	0	1	0	0	14.7145-15.1365(422)
Kwajalein	0	0	0	0	14.7145-15.1365(422)