Changes Enacted at the World Radiocommunications Conference-97  
Affecting the Office of Earth Science

<table>
<thead>
<tr>
<th>Band</th>
<th>Low (GHz)</th>
<th>High (GHz)</th>
<th>OES Instruments (+allied S/C, instruments,...)</th>
<th>Old Allocation (pre WRC-97)</th>
<th>New Allocation (Post WRC-97)</th>
<th>Other Primary Services (Sharing the band)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>0.43</td>
<td>0.44</td>
<td>Proposed SAR?</td>
<td>None</td>
<td>None</td>
<td>Radiolocation, Amateur</td>
<td>WIN? US position</td>
</tr>
<tr>
<td>L</td>
<td>1.215</td>
<td>1.3</td>
<td>SAR(JERS-1, LightSAR)</td>
<td>Footnoted secondary active</td>
<td>PRIMARY ACTIVE</td>
<td>Radiolocation, Radionavigation-S/C</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>L</td>
<td>1.559</td>
<td>1.610</td>
<td>GPS</td>
<td>PRIMARY S-E</td>
<td>No Change, Want</td>
<td>Aeronautical</td>
<td>CHALLENGE/DRAW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Space/Space</td>
<td>in WRC-99 Agenda</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>2.025</td>
<td>2.290</td>
<td>Most Command, Tracking</td>
<td>PRIME E-S, S-S</td>
<td>No Change, but no high</td>
<td>Fixed, Mobile, Space Ops</td>
<td>WIN-EXCLUDED</td>
</tr>
<tr>
<td></td>
<td>2.200</td>
<td></td>
<td>Most Telemetry</td>
<td>PRIME S-E, S-S</td>
<td>density mobile</td>
<td>high density mobile</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>3.1</td>
<td>3.3</td>
<td>CIS S/C</td>
<td>Secondary active</td>
<td>Radiolocation</td>
<td>PARTIAL WIN - out of footnotes</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>5.25</td>
<td>5.35</td>
<td>ALT, AMI, SSALT SRTM</td>
<td>Footnoted secondary active</td>
<td>PRIMARY ACTIVE</td>
<td>Radiolocation</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>C</td>
<td>5.35</td>
<td>5.46</td>
<td>Future RADARSAT</td>
<td>None</td>
<td>PRIMARY ACTIVE</td>
<td>Aeronautical Radionavigation</td>
<td>UNEXPECTED WIN</td>
</tr>
<tr>
<td>X</td>
<td>8.025</td>
<td>8.4</td>
<td>Most OES S/C science data downlinks</td>
<td>PRIMARY-Reg. 2 Secondary 1,3</td>
<td>PRIMARY WORLDWIDE S-E</td>
<td>Fixed, Fixed-Satellite, Mobile</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>X</td>
<td>8.55</td>
<td>8.65</td>
<td>Foreign S/C</td>
<td>Foot’d sec. active</td>
<td>PRIMARY ACTIVE</td>
<td>Radiolocation</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>X</td>
<td>9.5</td>
<td>9.8</td>
<td>Foreign S/C, SRTM?</td>
<td>Foot’d sec. active</td>
<td>PRIMARY ACTIVE</td>
<td>Radiolocation, Radionav.</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>K</td>
<td>13.25</td>
<td>13.75</td>
<td>SeaWINDS, SSALT, ALT</td>
<td>Footnoted secondary active</td>
<td>PRIMARY ACTIVE</td>
<td>Aeronautical Radionav.,</td>
<td>WIN-Upgraded &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Radiolocation, time/freq.</td>
<td>extended</td>
</tr>
<tr>
<td>Ku</td>
<td>17.2</td>
<td>17.3</td>
<td>Unknown</td>
<td>Secondary active</td>
<td>PRIMARY ACTIVE</td>
<td>Radiolocation</td>
<td>WIN-Upgraded</td>
</tr>
<tr>
<td>Ku</td>
<td>18.6</td>
<td>18.8</td>
<td>JMI, AMSR, AMSR-E</td>
<td>PRIMARY-Reg. 2 Secondary 1,3</td>
<td>PRIMARY -Reg. 2, Secondary 1, 3.</td>
<td>Fixed, Fixed-Satellite, Mobiles</td>
<td>DRAW-TABLED</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UNTIL WRC-99</td>
<td></td>
</tr>
<tr>
<td>Ka</td>
<td>25.5</td>
<td>27.0</td>
<td>Next OES Wideband Downlink</td>
<td>Secondary S-E Limiting footnotes</td>
<td>PRIMARY S-E, Fixed, Intersat, Mobile</td>
<td>WIN-Upgraded Worldwide.</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>------</td>
<td>------</td>
<td>-----------------------------</td>
<td>----------------------------------</td>
<td>-------------------------------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Ka</td>
<td>35.5</td>
<td>36.0</td>
<td>Future</td>
<td>None</td>
<td>PRIMARY ACTIVE, Met. Aids, Radiolocation</td>
<td>WIN-New Allocation</td>
<td></td>
</tr>
<tr>
<td>50.2</td>
<td>50.4</td>
<td>AMSR, AMSU</td>
<td>PRIMARY PASS.</td>
<td>NO CHANGE</td>
<td>Mobile, Space Res.</td>
<td>WIN-EXIT FIXED</td>
<td></td>
</tr>
<tr>
<td>51.4</td>
<td>59.3</td>
<td>AMSR, AMSU, MSU</td>
<td>PRIMARY PASSIVE/NONE</td>
<td>PRIMARY PASSIVE</td>
<td>Space Research (passive), Mixed-mobile, fixed</td>
<td>WIN-HARMONIZED</td>
<td></td>
</tr>
<tr>
<td>71.0</td>
<td>300.0</td>
<td>AMSR, MIMR, TMI, MHS, ...</td>
<td>Mixed, PRIME</td>
<td>NC-Reallocate</td>
<td>Mixed</td>
<td>WIN-in WRC-99</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>94.1</td>
<td>Future Cloud Radars</td>
<td>None</td>
<td>PRIMARY ACTIVE</td>
<td>Fixed, Fixed-Satellite, Mobile, Radiolocation</td>
<td>WIN-NEW ALLOCATION</td>
<td></td>
</tr>
</tbody>
</table>