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COMMUNICATIONS SYSTEMS BRANCH

LEWIS RESEARCH CENTER

THE 1992 WORLD ADMINISTRATIVE RADIO CONFERENCE: AN OVERVIEW

- WARC-92 CONVENED FEBRUARY 3-MARCH 3, 1992, IN TORREMOLINOS, SPAIN

- ATTENDED BY MORE THAN 1400 DELEGATES FROM 140+ NATIONS/ORGANIZATIONS

- FIRST FREQUENCY ALLOCATION CONFERENCE SINCE 1979

COMPLEX AGENDA SPANNED WIDE RANGE OF RADIOFREQUENCY SPECTRUM:

- ALLOCATIONS TO MOBILE SATELLITE SERVICE (LEO), BELOW 1 GHZ
- ALLOCATIONS TO MOBILE, MOBILE SATELLITE SERVICES IN 1-3 GHZ
- ALLOCATIONS TO BROADCAST SATELLITE SERVICE (SOUND) IN 0.5-3 GHZ
- ALLOCATIONS TO BROADCAST SATELLITE SERVICE (HDTV)
- DEFINITION OF, AND ALLOCATIONS TO, NEW SPACE SERVICES ABOVE 20 GHZ
- PROTECTION OF EXISTING SERVICES, HIGH DEMANDS FOR SPECTRUM FOR NEW SERVICES MADE DECISION MAKING BY CONFERENCE EXTREMELY DIFFICULT, PARTICULARLY IN 1-3 GHZ PORTION OF SPECTRUM
- MANY ALLOCATIONS DECISIONS REACHED ONLY AT "ELEVENTH HOUR" OF CONFERENCE
- DECISIONS OF WARC-92 WILL AFFECT SATELLITE COMMUNICATIONS SERVICES THROUGHOUT REMAINDER OF THIS CENTURY AND BEYOND

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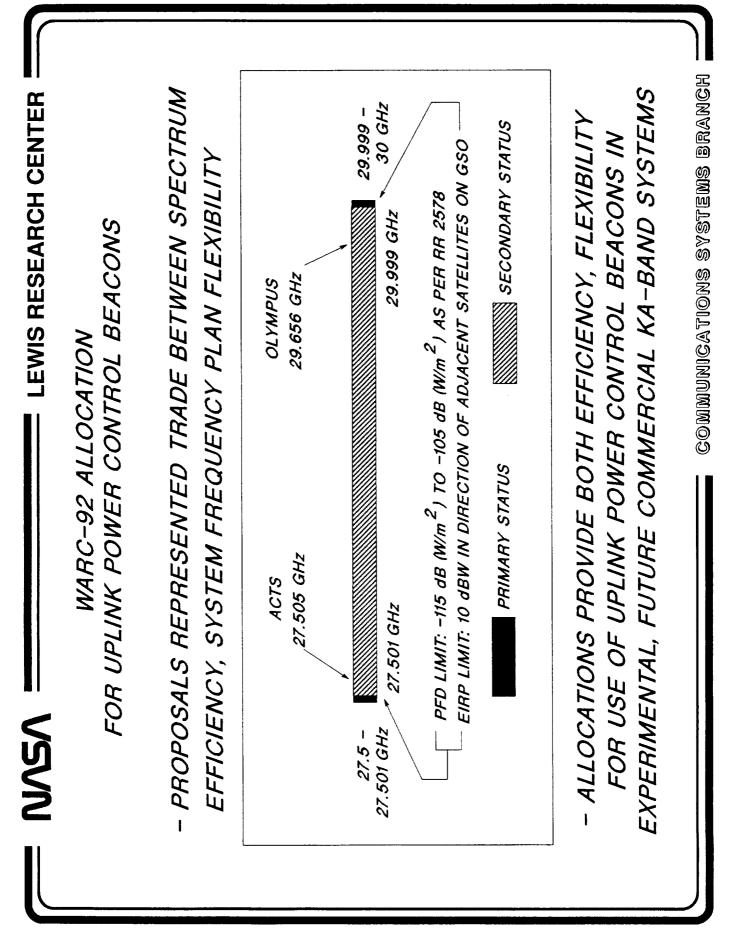
WARC-92: SELECTED RESULTS	
MOBILE SATELLITE SERVICE	
LEO SYSTEMS BELOW 1 GHz	
137-138 MHz, DOWNLINK, PRIMARY/SECONDARY	
149.9-150.05 MHZ. UPLINK, SECONDARY UNTIL 1997	
312-315 MHz, UPLINK, SECONDARY	
387-390 MHz, DOWNLINK, SECONDARY	
400.15–401 MHz, DOWNLINK, PRIMARY	
GEO, LEO SYSTEMS IN 1 – 3 GHz	
1492-1525 MHz, DOWNLINK, PRIMARY, REGION 2 (EXCLUDING U.S.)	
1525-1530 MHz, DOWNLINK, REGIONS 2,3, "GENERIC"	
1610–1626.5 MHz, UPLINK, PRIMARY, LEO	
1613.8-1626.5 MHz, DOWNLINK, SECONDARY, LEO	
1626.5-1631.5 MHz, UPLINK, PRIMARY, REGIONS 2,3, LEO	
1675-1710 MHz, UPLINK, PRIMARY, REGION 2, LEO	
1930-1970 MHz, UPLINK, SECONDARY, REGION 2, LEO/GEO	
1970–1980 MHz, UPLINK, PRIMARY, REGION 2, LEO/GEO	
1980–2010 MHz, UPLINK, PRIMARY, LEO/GEO	
2120-2160 MHz, DOWNLINK, SECONDARY, REGION 2, LEO/GEO	
2160-2170 MHz, DOWNLINK, PRIMARY, REGION 2, LEO/GEO	
2170-2200 MHz, DOWNLINK, PRIMARY, LEO/GEO	
2483.5-2500 MHz, DOWNLINK, PRIMARY, LEO/GEO	
2500-2520 MHz, DOWNLINK, PRIMARY, LEO/GEO, 2005	
2670-2690 MHz, UPLINK, PRIMARY, LEO, 2005	

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WARC-92: SELECTED RESULTS
BROADCAST SATELLITE SERVICE
SOUND BROADCASTING IN 0.5 - 3 GHz
1452-1492 MHz, SECONDARY UNTIL 2007 IN SEVERAL ADMINISTRATIONS 2310-2360 MHZ, UPLINK, PRIMARY, U.S. ALLOCATION
2535-2360 MHz (SEVERAL EUROPEAN, ASIAN ADMINISTRATIONS) ALL ALLOCATIONS: UPPER 25 MHz IMMEDIATELY AVAILABLE PRIOR TO PLANNING, 1998
17.3–17.8 GHz, DOWNLINK, PRIMARY, REGION 2
21.4-22.0 GHz, DOWNLINK, PRIMARY, REGIONS 1,3
24.75-25.25 GHz, UPLINK, PHIOHITY, HEGIONS 2, 3 27 5-20 0 GH- 11DLINK ALLOWABLE
Z1.3-30.0 GHZ, UPLINK, ALLUWABLE
NEW SPACE SERVICES ABOVE 20 GHz
GENERAL SATELLITE SERVICE
19.7–20.2 GHz ALLOCATED TO MSS, DOWNLINK, PRIMARY, REGION 2
29.5-30.0 GHz ALLOCATED TO MSS, UPLINK, PRIMARY, REGION 2
20.1–20.2 GHz ALLOCATED TO MSS, DOWNLINK, PRIMARY, REGIONS 1,3
29.9–30.0 GHz ALLOCATED TO MSS, UPLINK, PRIMARY, REGIONS 1,3
UPLINK POWER CONTROL BEACONS
27.5-27.501 GHz, 29.999-30.0 GHz, PRIMARY, SUBJECT TO PFD, EIRP LIMITS
27.501 - 29.999 GHz, SECONDAHY

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31.0 GHZ 1111 31 GHz **COMMUNICATIONS SYSTEMS BRANCH** 31 GHz LEWIS RESEARCH CENTER 30.999 -30.999 -WARC-92 PROPOSALS: UPLINK POWER CONTROL BEACONS PRIMARY STATUS JAPAN 29.999 -U.S. 30 GHz 29.5 GHz 29.5 GHZ PFD LIMITS, EIRP LIMITS AUSTRALIA EUROPE CANADA "ALSO PERMITTED" STATUS 27.001 GHz 27.501 GHz 27.501 GHz 27.501 GHz 27.5 -27.5 -27.5 -Р. 27.5 GHz 27.5 GHz 82, R3 27.0 GHz



NAPEX XVI

Session 2

OLYMPUS PROPAGATION MEASUREMENTS AND RESULTS

Chairman:

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