

FSS Downlink Frequency Band 3 600 - 3 629 MHz
Burst frequencies (10.5 kbit/s)

INMARSAT Satellite	GES	GES ID	Intermediate Output Frequency (MHz)	Frequency (MHz)	Channel Type
IOR 64.5°E INMARSAT 3F1 ID 3	PERTH (Australia)	C1	1 533.765	3 616.2350	R Channel
		C1	1 533.778	3 616.2225	T Channel
		C1	1 533.808	3 616.1925	R Channel
		C5	1 533.825	3 616.1750	T Channel
		C5	1 533.838	3 616.1625	R Channel
		C5	1 533.853	3 616.1475	R Channel
		C1	1 533.868	3 616.1325	T Channel
		C5	1 533.995	3 616.0050	R Channel
		C1	1 534.355	3 615.6450	R Channel
		C5	1 534.373	3 615.6275	R Channel
		C5	1 534.388	3 615.6125	T Channel
		C1	1 534.403	3 615.5975	R Channel
C1	1 534.418	3 615.5825	R Channel		
C1	1 534.663	3 615.3375	R Channel		
EMEA 25.0°E INMARSAT 4 AF4 ID 6 Alphasat I-XL	FUCINO (Italia)	90	1 525.963	3 624.0375	R Channel
		90	1 525.973	3 624.0275	T Channel
		90	1 525.988	3 624.0125	R Channel
		90	1 526.190	3 623.8100	R Channel
AOR-E 15.4°W INMARSAT 3F2 ID 1	BURUM (Netherlands)	43	1 533.818	3 616.1825	R Channel
		44	1 533.835	3 616.1650	R Channel
		44	1 533.863	3 616.1375	R Channel
		43	1 533.848	3 616.1525	T Channel
		43	1 534.365	3 615.6350	R Channel
		44	1 534.380	3 615.6200	R Channel
43	1 534.395	3 615.6050	T Channel		
AOR-W 54.0°W INMARSAT 3F4 ID 0	BURUM (Netherlands)	02	1 533.825	3 616.1750	T Channel
		05	1 533.840	3 616.1600	R Channel
		05	1 533.858	3 616.1425	T Channel
		02	1 533.873	3 616.1275	R Channel

Notes:

- Frequency plan: $F(n) = 3\,600 + (n \times 0.0025)$ MHz with F = Frequency of transmission and n = Channel Number.
- Channels shall be allocated throughout the bands in increments of 2.5 kHz, for the from-aircraft transmission path.
- The band **3600 - 3629 MHz** is used as the downlink FSS band (space-to-Earth) for feeder links to satellites that are part of the Mobile Satellite Service (MSS) for aeronautical, land and maritime backhaul into the public networks, e.g. INMARSAT.
- FSS: Fixed Satellite Service
- Burst: A time-defined, contiguous set of one or more related signal units which may convey user information and protocols, signalling and any necessary preamble.
- T Channel: Reservation time division multiple access (TDMA) channel, used in the from-aircraft direction only. The receiving GES reserves time slots for transmissions requested by aircraft earth stations (AESs) according to message length. The sending AES transmits the message in the reserved time slots according to priority.
- R Channel: Random access (slotted Aloha) channel, used in the from-aircraft direction to carry signalling an user data.
- Freq. C-Band = LO - Intermediate Freq., with Local Oscillator (LO) = 5 150 MHz.

The frequencies were estimated tuned with SDR receiver and can be prone to error.