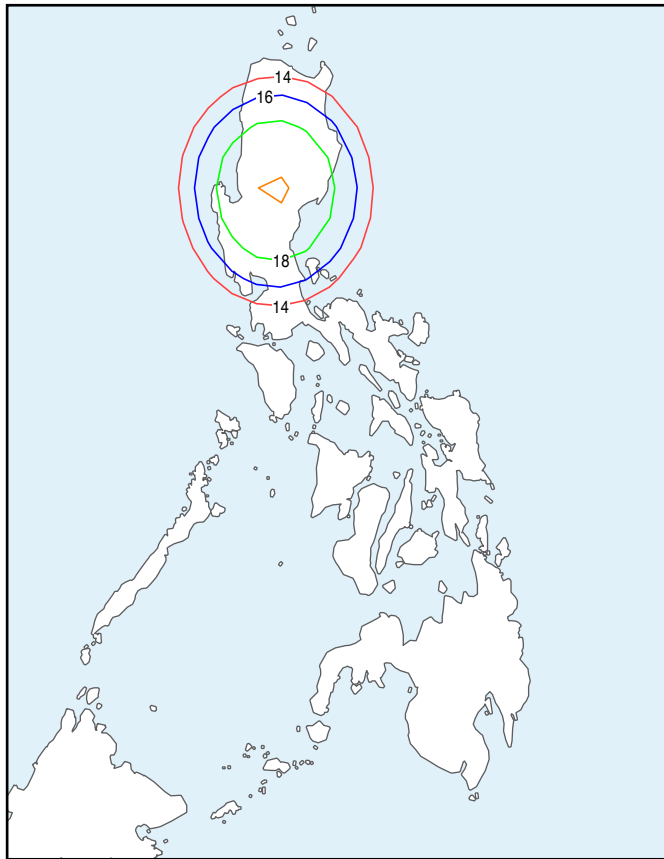
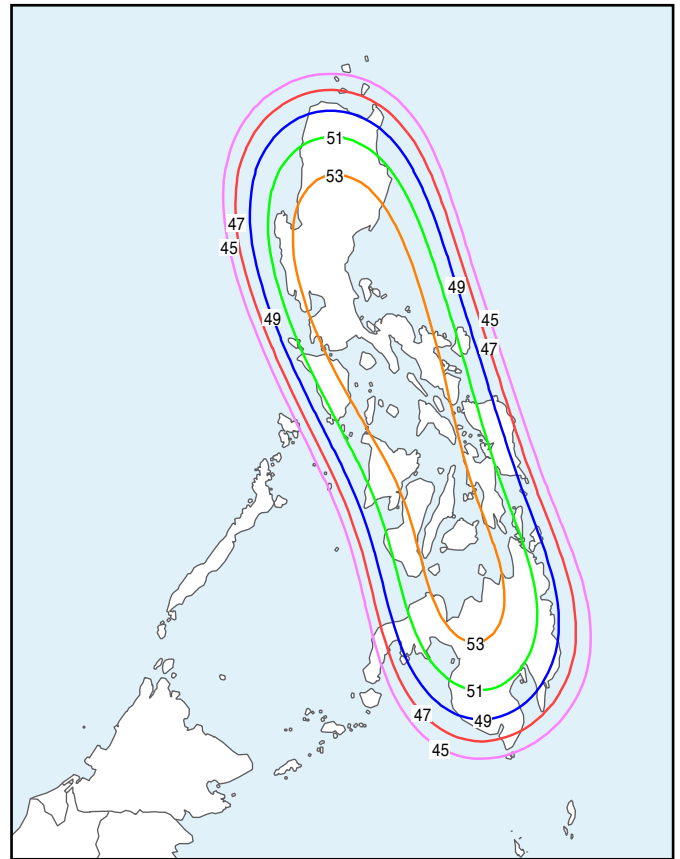


Philippines Broadcast Beam



Uplink Contour



Downlink Contour

| | |
|---|--|
| Geographic Coverage | Philippines |
| Frequency Range | Uplink (H): 13.775 - 13.975 GHz Downlink (V): 11.500 - 11.700 GHz |
| Transponder Bandwidth | 200 MHz |
| EIRP at operation back-off -5 dB (at peak) per 200 MHz | 54.1 dBW |
| G/T at peak | 20.1 dB/K |
| Equivalent Capacity* | DVB-S1: 153 Mbps DVB-S2: 166 Mbps |

**Thaicom-4 (IPSTAR)
Broadcast Solutions**

- Direct to Home (DTH) Service
- High Definition TV (HDTV)
- Backhaul and Backup Link for TV/Cable Operator

*Equivalent Capacity is calculated based on

- DVB technology
- Modulation Code: QPSK 1/2
- 7.6m Ku-band Uplink Antenna

| | | | |
|--|---------------------------------------|-------------------|--|
| | Thaicom-4 (IPSTAR) Description | | www.ipstar.com |
| | Orbital Location | 119.5° East | |
| | Launch Date | 11 August 2005 | |
| | Life Expectancy | At least 12 Years | |