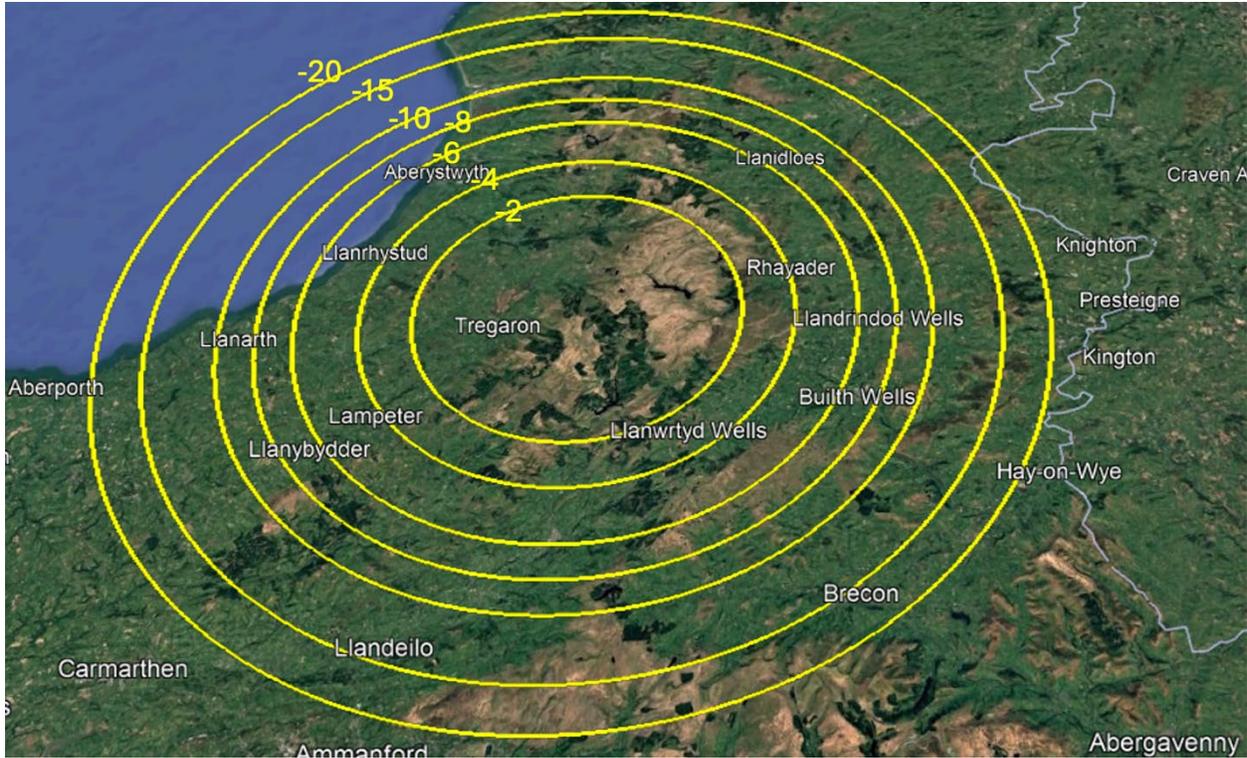


Technical Updates Regarding UK STA

1. PFD Contour Plot with dB roll off from Beam Center (nadir)



2. Peak Power (nadir)

Satellite transmit EIRP – 42 dBW

Satellite altitude (Height) – 520,000 m

PFD at Earth (center of coverage) = $42 - (10 \cdot \text{LOG}(4 \cdot \text{PI} \cdot 520000)^2) = -83.3 \text{ dBW/m}^2$

3. As reflected in the updated form 442, for the service links, as shown above, AST will not exceed the levels in the ITU filing. For convenience, these numbers are copied into the table below:

Emission Designator	Bandwidth (MHz)	Output Power (W)	ERP (W)
5M00G1W	5	12.6	9637.6
3M00G1W	3	7.5	5782.6
1M43G1W	1.4	3.5	2698.5