

Antenna Beam Projection Report

Generated by ABPTool

March 18, 2026

Beam: UTX — PROTOSTAR

SSP: Tromso, Norway (69.6630°N, 18.9400°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	UTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Tromso, Norway
SSP Longitude	18.9400° (East positive)
SSP Latitude	69.6630° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
-2.4 (boresight)	0.0000	0.0000
-2.0	29.0000	2.5753
0.0	60.0000	9.2849

Beam: UTX | SSP: Tromso, Norway
(69.6630°N, 18.9400°E) [Azimuthal Equidistant]



SSP: Deadhorse, Alaska (70.2010°N, -148.4600°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	UTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Deadhorse, Alaska
SSP Longitude	-148.4600° (East positive)
SSP Latitude	70.2010° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
-2.4 (boresight)	0.0000	0.0000
-2.0	29.0000	2.5753
0.0	60.0000	9.2849

Beam: UTX | SSP: Deadhorse, Alaska
(70.2010°N, -148.4600°E) [Azimuthal Equidistant]



SSP: Fairbanks, Alaska (64.9080°N, -147.7050°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	UTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Fairbanks, Alaska
SSP Longitude	-147.7050° (East positive)
SSP Latitude	64.9080° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
-2.4 (boresight)	0.0000	0.0000
-2.0	29.0000	2.5753
0.0	60.0000	9.2849

Beam: UTX | SSP: Fairbanks, Alaska
(64.9080°N, -147.7050°E) [Azimuthal Equidistant]



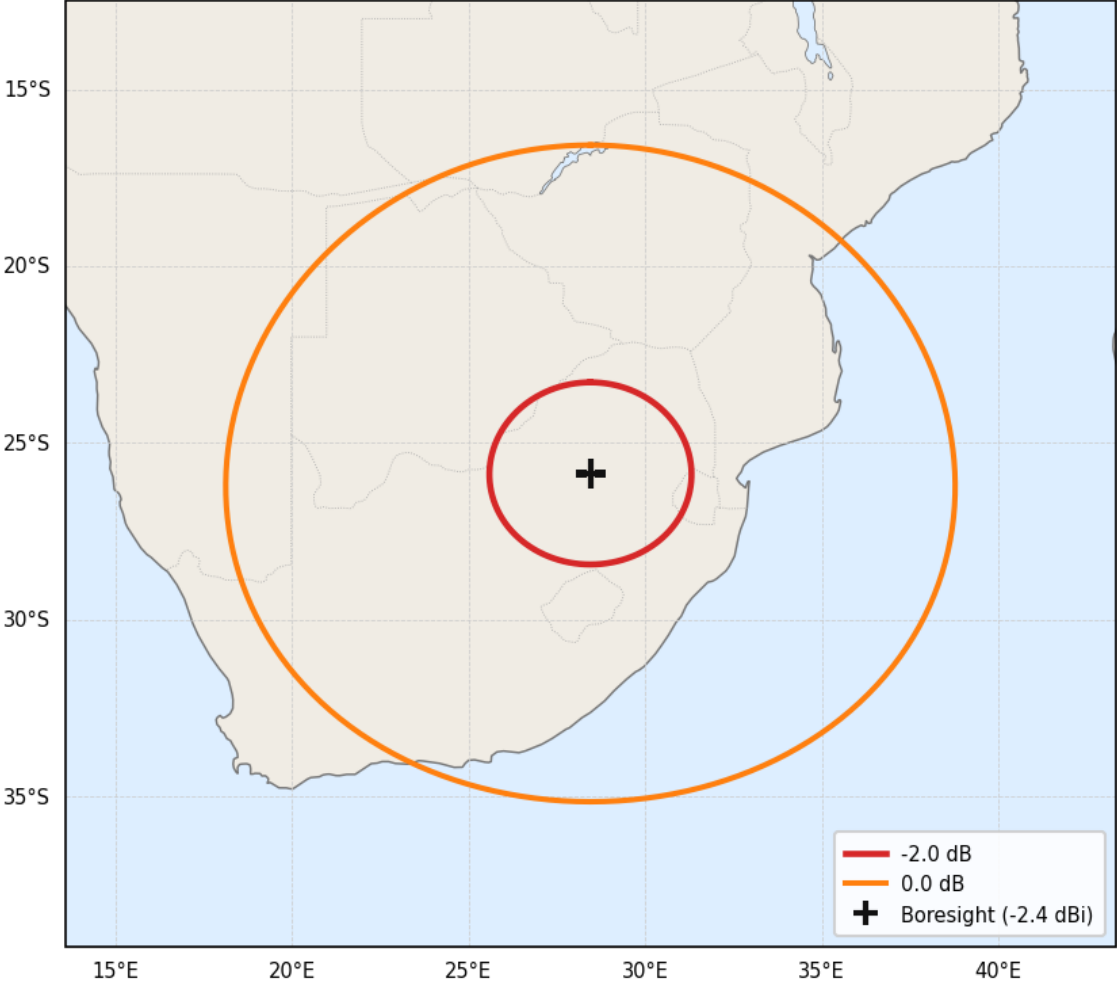
SSP: Pretoria, South Africa (-25.8609°N, 28.4533°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	UTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Pretoria, South Africa
SSP Longitude	28.4533° (East positive)
SSP Latitude	-25.8609° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
-2.4 (boresight)	0.0000	0.0000
-2.0	29.0000	2.5753
0.0	60.0000	9.2849

Beam: UTX | SSP: Pretoria, South Africa
(-25.8609°N, 28.4533°E) [Equirectangular]

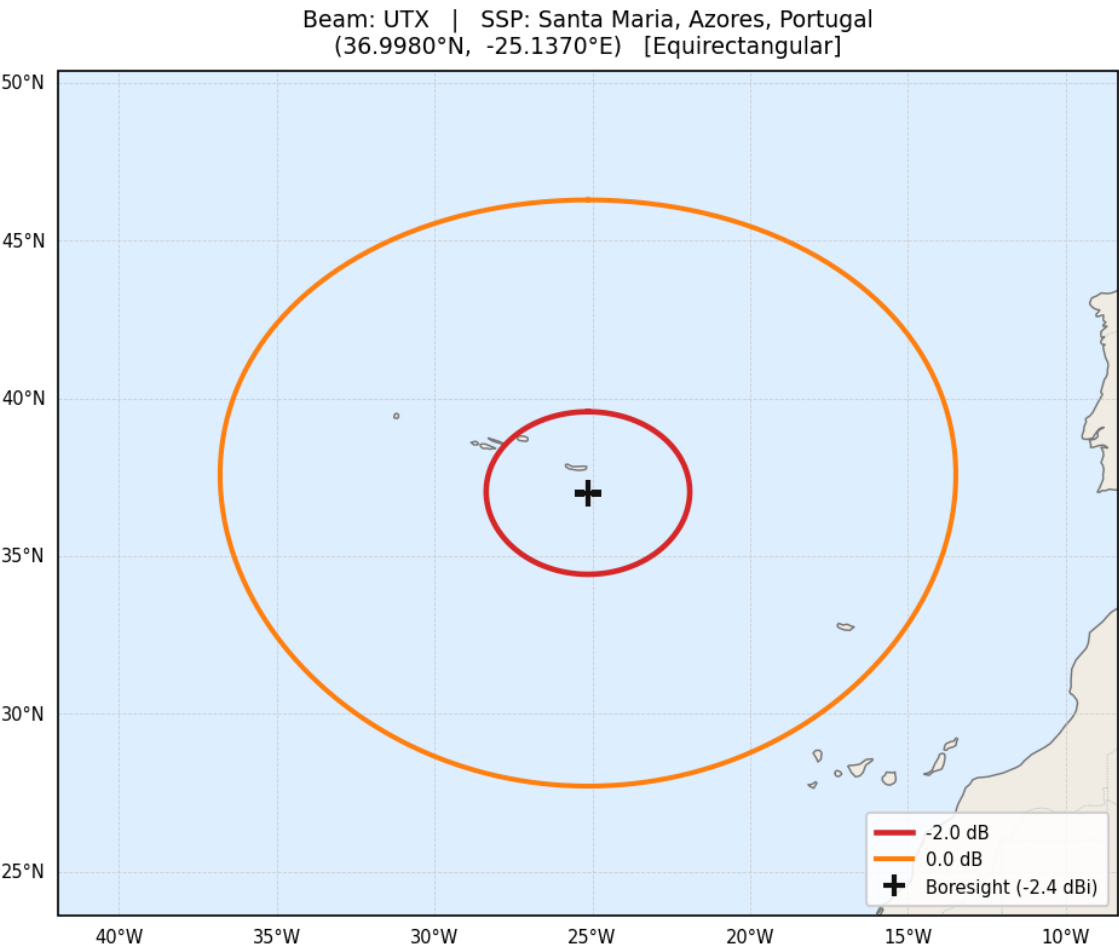


SSP: Santa Maria, Azores, Portugal (36.9980°N, -25.1370°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	UTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Santa Maria, Azores, Portugal
SSP Longitude	-25.1370° (East positive)
SSP Latitude	36.9980° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
-2.4 (boresight)	0.0000	0.0000
-2.0	29.0000	2.5753
0.0	60.0000	9.2849

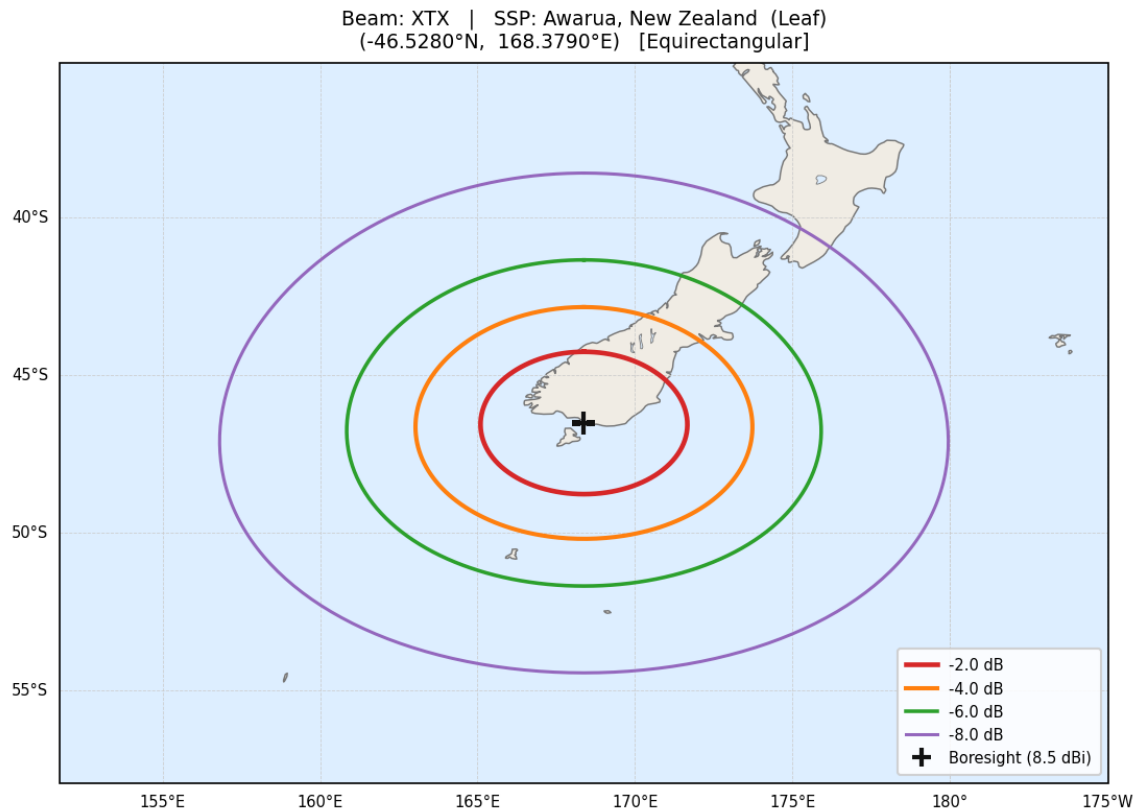


SSP: Awarua, New Zealand (Leaf) (-46.5280°N, 168.3790°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	XTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Awarua, New Zealand (Leaf)
SSP Longitude	168.3790° (East positive)
SSP Latitude	-46.5280° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
8.5 (boresight)	0.0000	0.0000
-2.0	26.0000	2.2593
-4.0	38.0000	3.6781
-6.0	47.0000	5.1760
-8.0	57.0000	7.9321



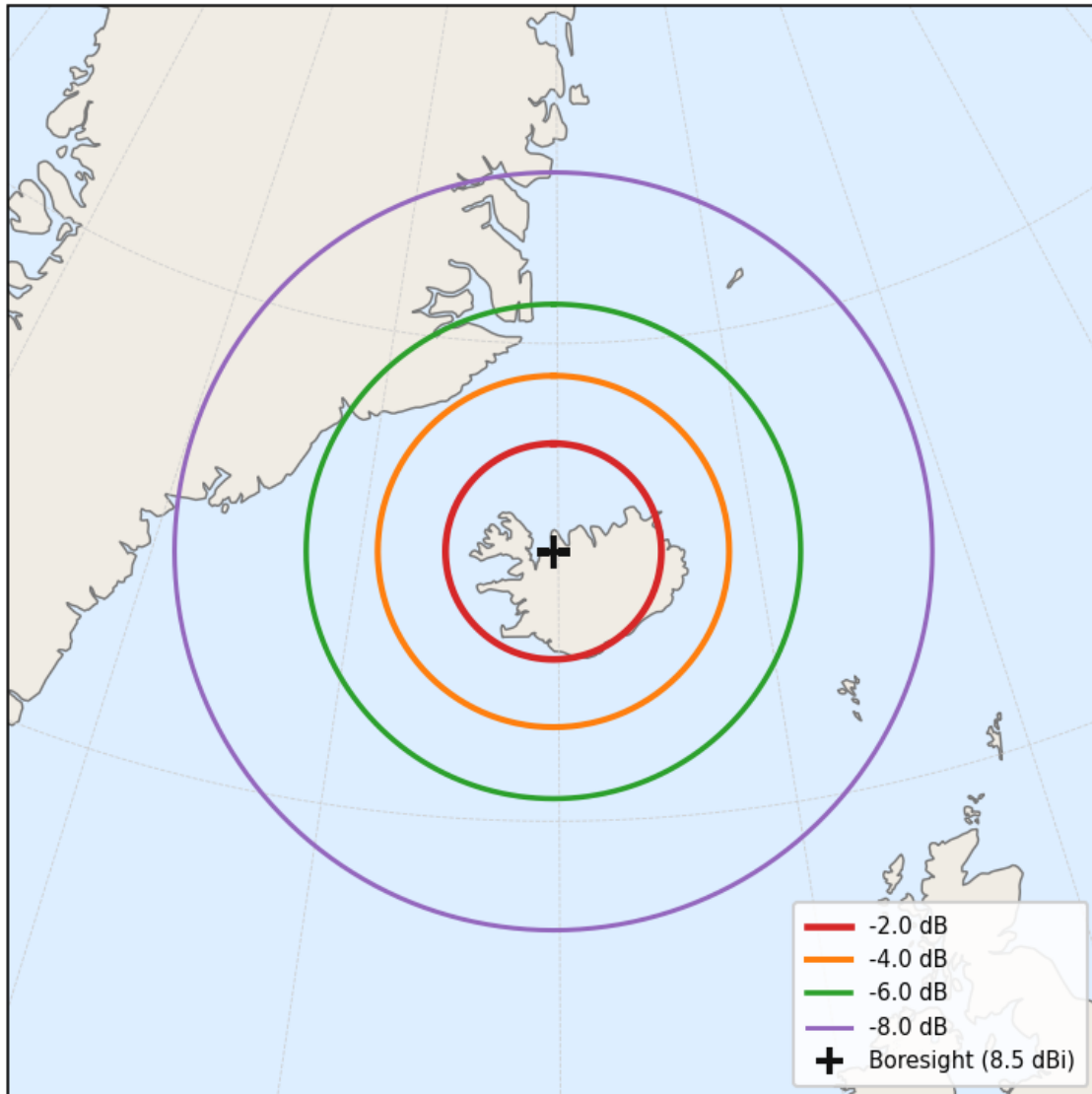
SSP: Blonduos, Iceland (Leaf) (65.6474°N, -20.2461°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	XTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Blonduos, Iceland (Leaf)
SSP Longitude	-20.2461° (East positive)
SSP Latitude	65.6474° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
8.5 (boresight)	0.0000	0.0000
-2.0	26.0000	2.2593
-4.0	38.0000	3.6781
-6.0	47.0000	5.1760
-8.0	57.0000	7.9321

Beam: XTX | SSP: Blonduos, Iceland (Leaf)
(65.6474°N, -20.2461°E) [Azimuthal Equidistant]

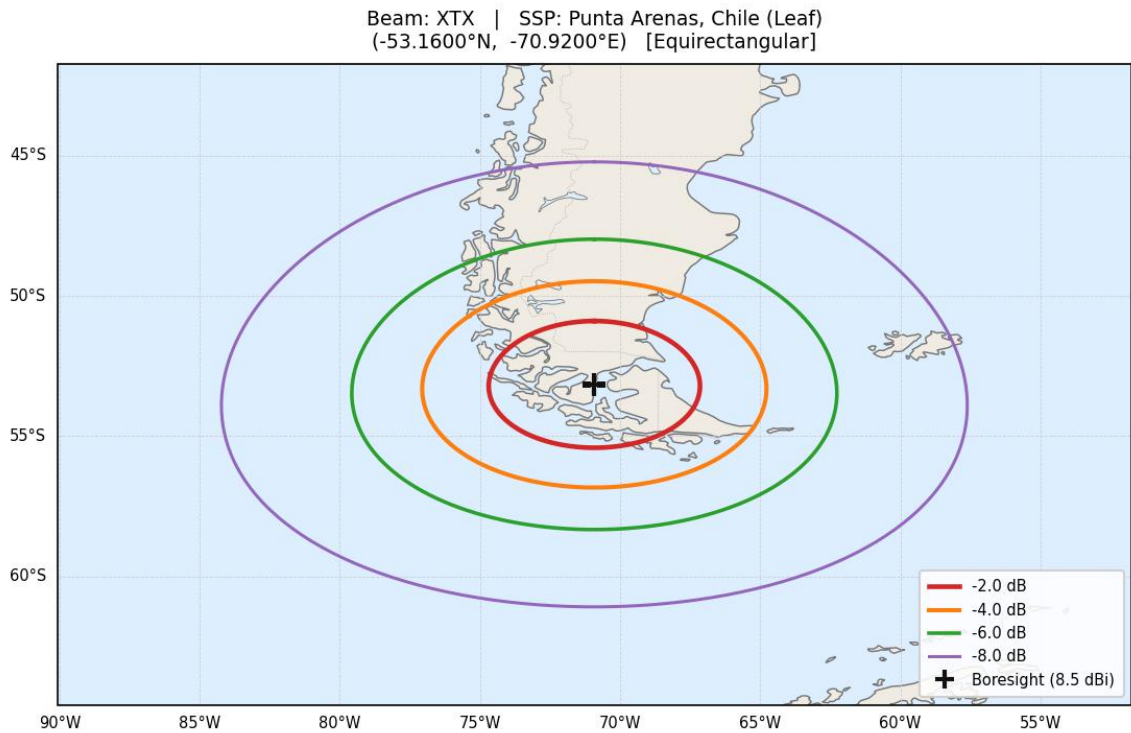


SSP: Punta Arenas, Chile (Leaf) (-53.1600°N, -70.9200°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	XTX
Emission Type	E
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Punta Arenas, Chile (Leaf)
SSP Longitude	-70.9200° (East positive)
SSP Latitude	-53.1600° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
8.5 (boresight)	0.0000	0.0000
-2.0	26.0000	2.2593
-4.0	38.0000	3.6781
-6.0	47.0000	5.1760
-8.0	57.0000	7.9321



Beam: SRX — PROTOSTAR

SSP: Tromsø, Norway (KSAT) (69.6626°N, 18.9404°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Tromsø, Norway (KSAT)
SSP Longitude	18.9404° (East positive)
SSP Latitude	69.6626° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Tromsø, Norway (KSAT)
(69.6626°N, 18.9404°E) [Azimuthal Equidistant]



SSP: Deadhorse, AK, USA (RBC) (70.2013°N, -148.4603°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Deadhorse, AK, USA (RBC)
SSP Longitude	-148.4603° (East positive)
SSP Latitude	70.2013° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Deadhorse, AK, USA (RBC)
(70.2013°N, -148.4603°E) [Azimuthal Equidistant]



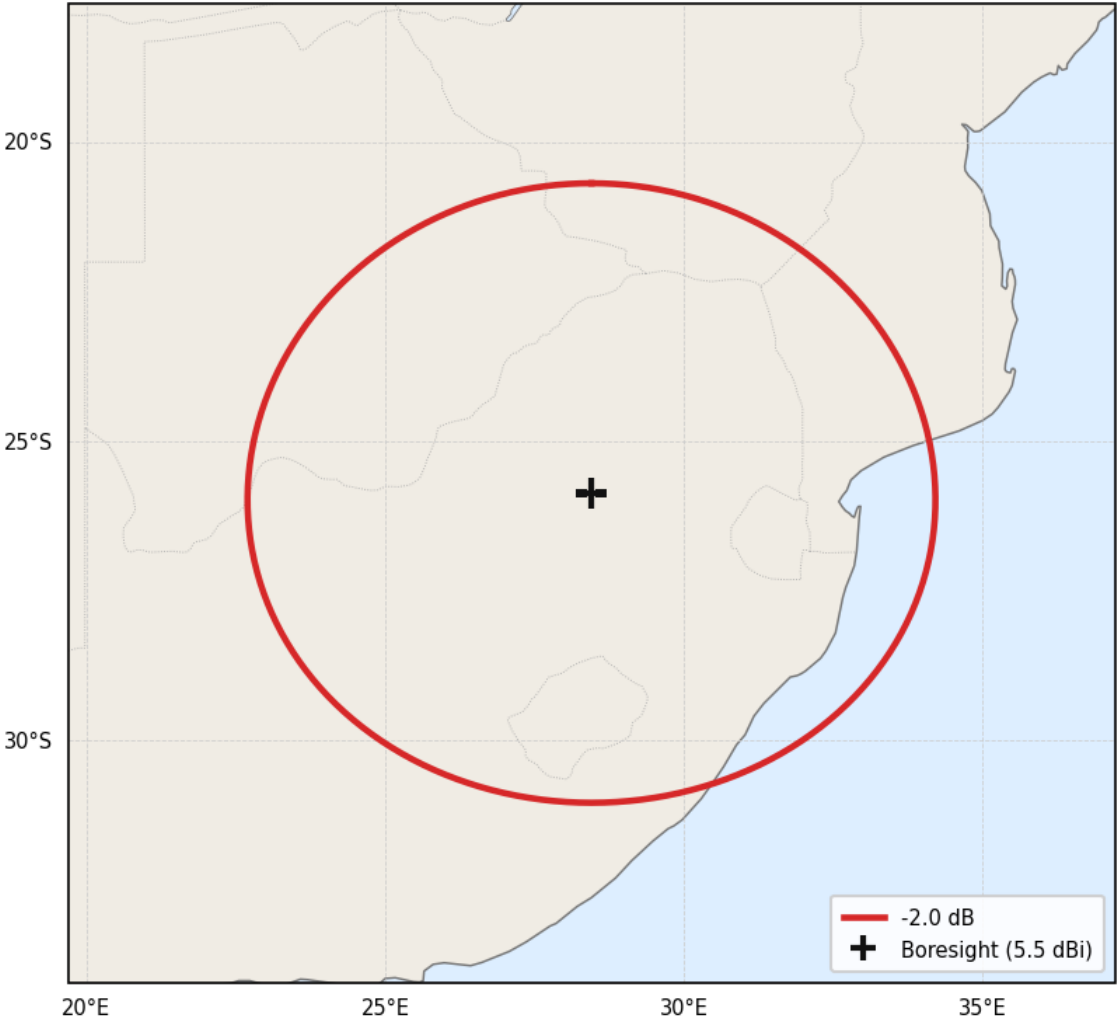
SSP: Pretoria, South Africa (RBC) (-25.8610°N, 28.4530°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Pretoria, South Africa (RBC)
SSP Longitude	28.4530° (East positive)
SSP Latitude	-25.8610° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Pretoria, South Africa (RBC)
(-25.8610°N, 28.4530°E) [Equirectangular]



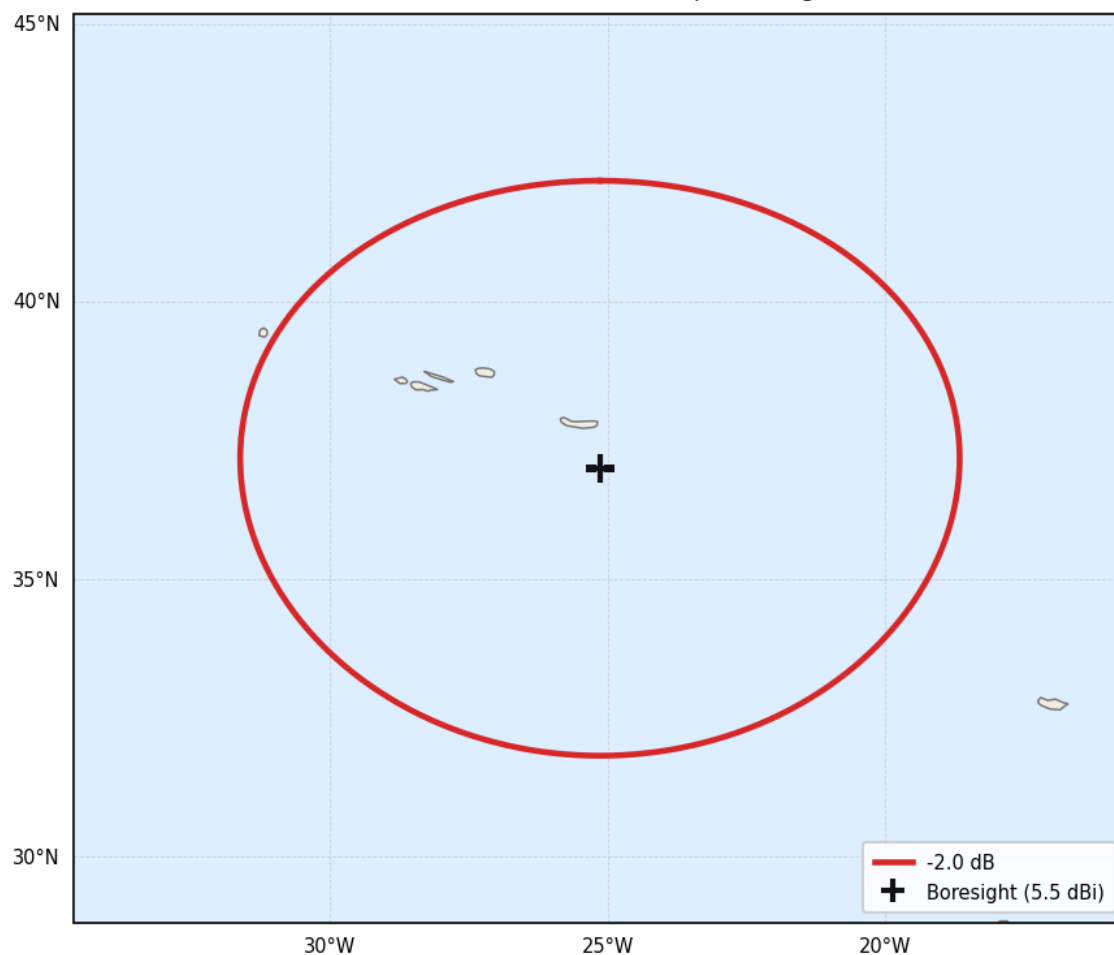
SSP: Santa Maria, Azores (Leaf) (36.9980°N, -25.1370°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Santa Maria, Azores (Leaf)
SSP Longitude	-25.1370° (East positive)
SSP Latitude	36.9980° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Santa Maria, Azores (Leaf)
(36.9980°N, -25.1370°E) [Equirectangular]



SSP: Blonduos, Iceland (Leaf) (65.6470°N, -20.2460°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Blonduos, Iceland (Leaf)
SSP Longitude	-20.2460° (East positive)
SSP Latitude	65.6470° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Blonduos, Iceland (Leaf)
(65.6470°N, -20.2460°E) [Azimuthal Equidistant]



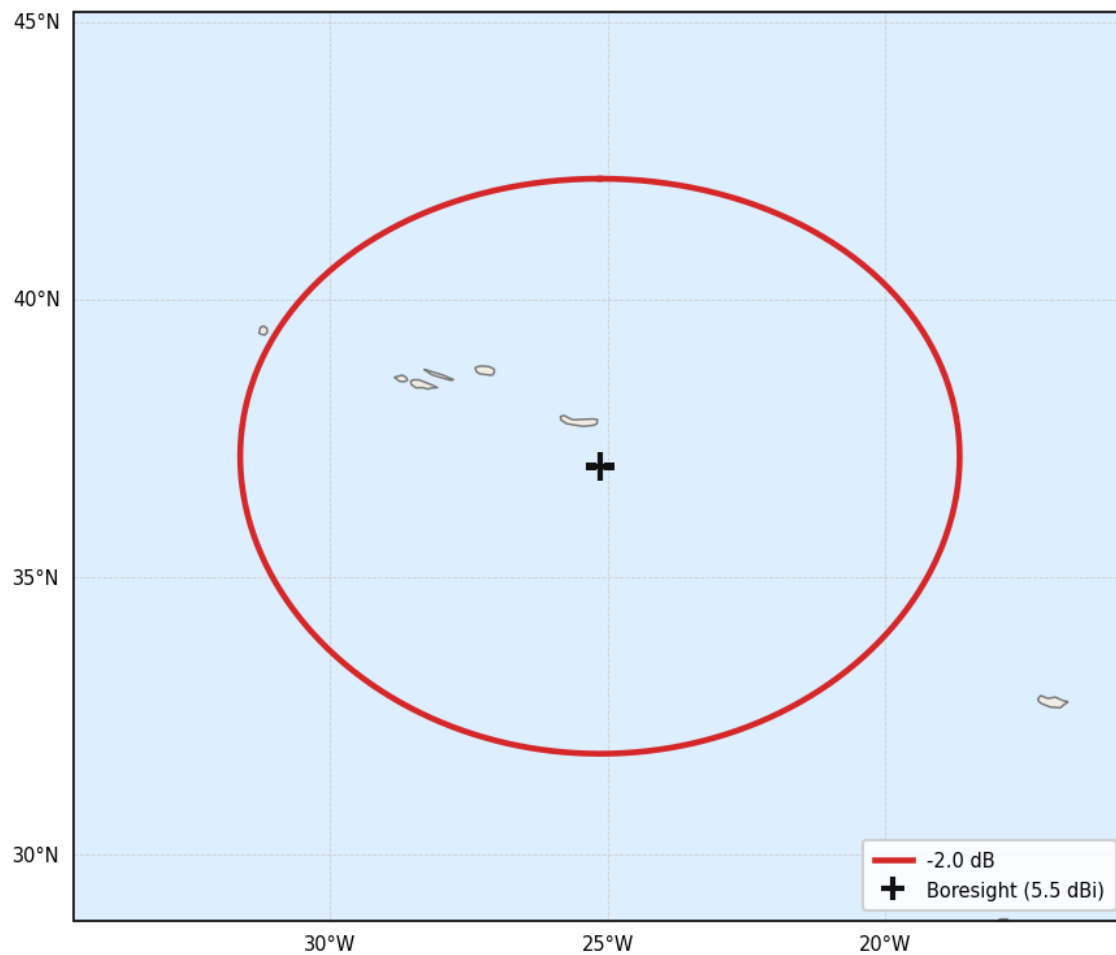
SSP: Santa Maria, Azores (Leaf) (36.9980°N, -25.1370°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Santa Maria, Azores (Leaf)
SSP Longitude	-25.1370° (East positive)
SSP Latitude	36.9980° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX | SSP: Santa Maria, Azores (Leaf)
(36.9980°N, -25.1370°E) [Equirectangular]

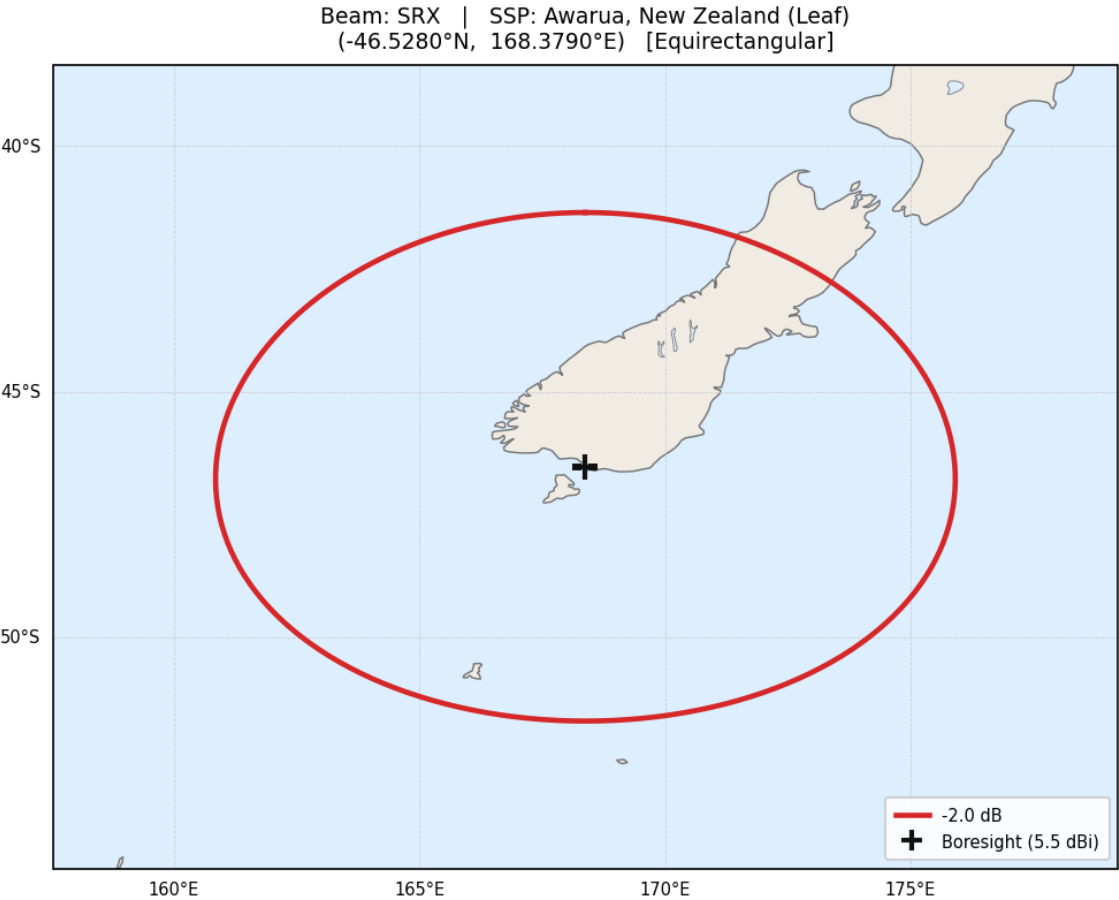


SSP: Awarua, New Zealand (Leaf) (-46.5280°N, 168.3790°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Awarua, New Zealand (Leaf)
SSP Longitude	168.3790° (East positive)
SSP Latitude	-46.5280° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

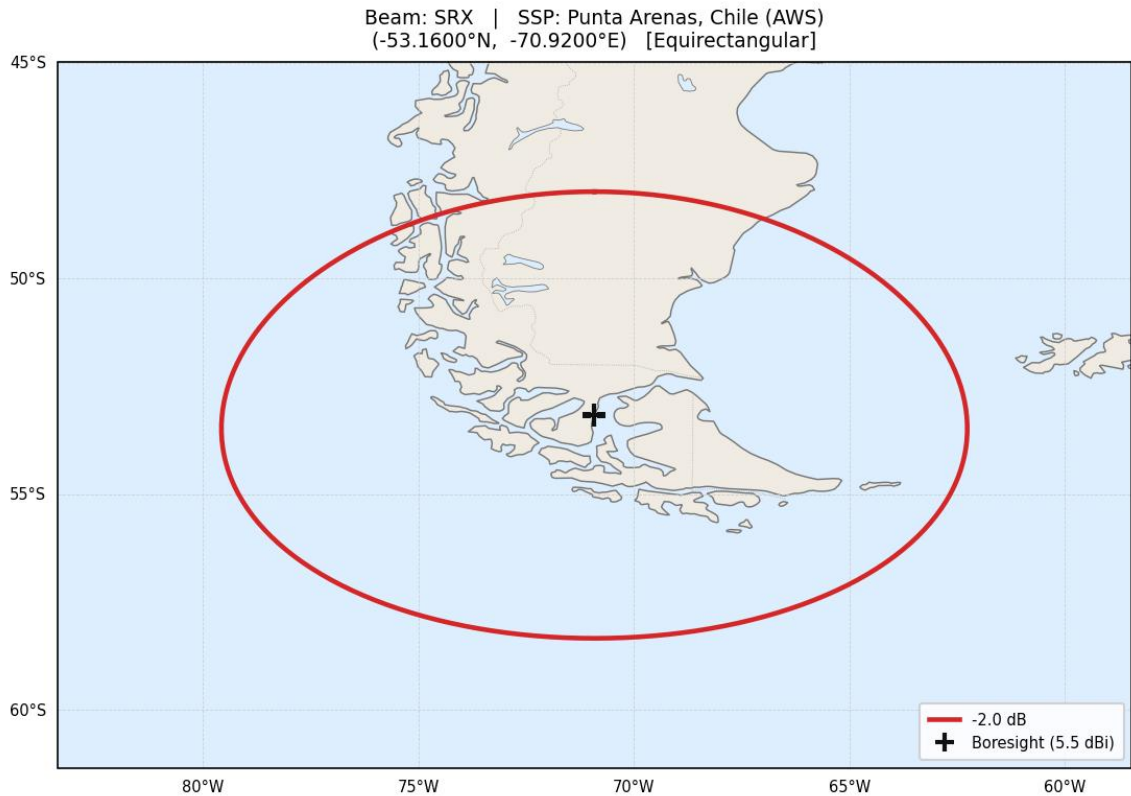


SSP: Punta Arenas, Chile (AWS) (-53.1600°N, -70.9200°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Punta Arenas, Chile (AWS)
SSP Longitude	-70.9200° (East positive)
SSP Latitude	-53.1600° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760



Beam: SRX2 — PROTOSTAR

SSP: Tromsø, Norway (KSAT) (69.6626°N, 18.9404°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Tromsø, Norway (KSAT)
SSP Longitude	18.9404° (East positive)
SSP Latitude	69.6626° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Tromsø, Norway (KSAT)
(69.6626°N, 18.9404°E) [Azimuthal Equidistant]



SSP: Deadhorse, AK, USA (RBC) (70.2013°N, -148.4603°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Deadhorse, AK, USA (RBC)
SSP Longitude	-148.4603° (East positive)
SSP Latitude	70.2013° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Deadhorse, AK, USA (RBC)
(70.2013°N, -148.4603°E) [Azimuthal Equidistant]



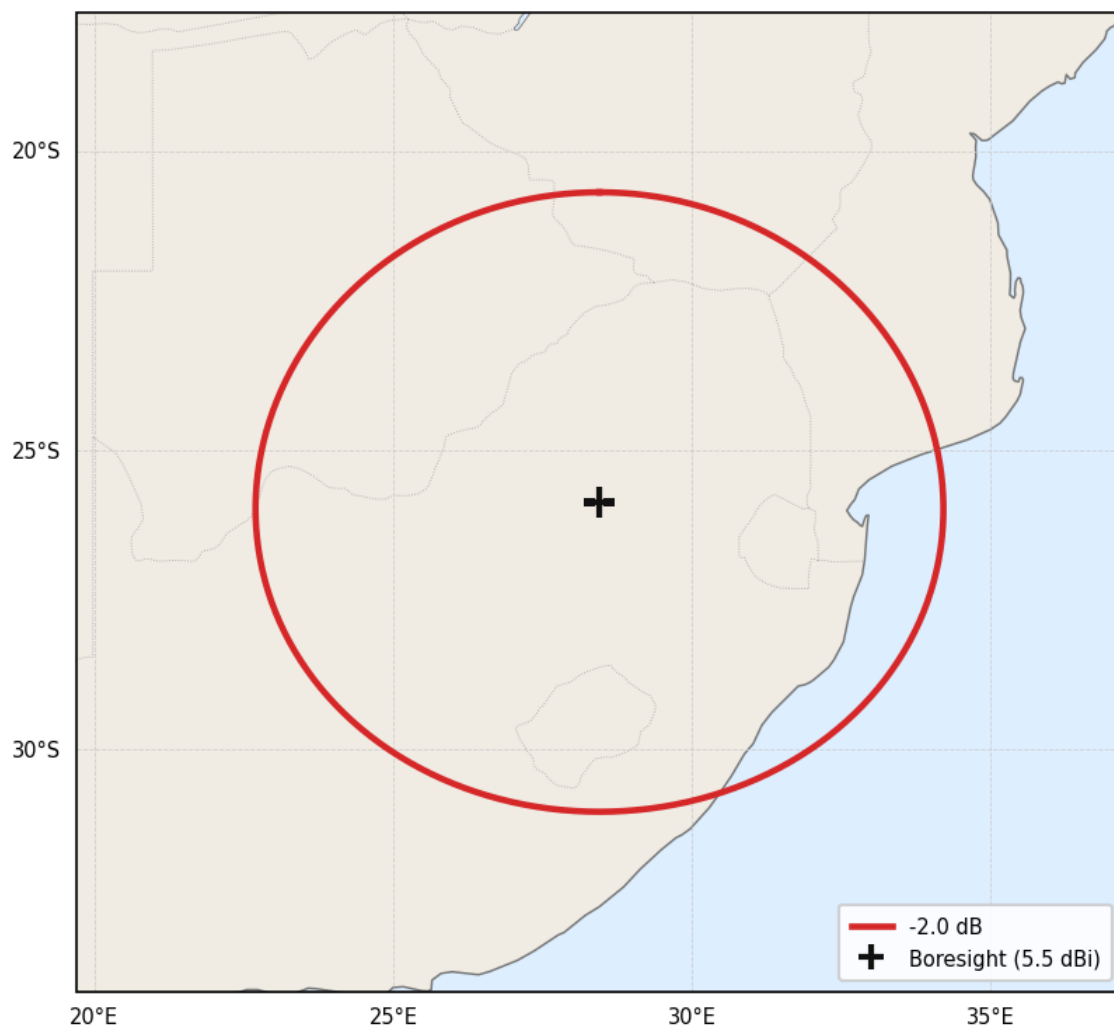
SSP: Pretoria, South Africa (RBC) (-25.8610°N, 28.4530°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Pretoria, South Africa (RBC)
SSP Longitude	28.4530° (East positive)
SSP Latitude	-25.8610° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Pretoria, South Africa (RBC)
(-25.8610°N, 28.4530°E) [Equirectangular]



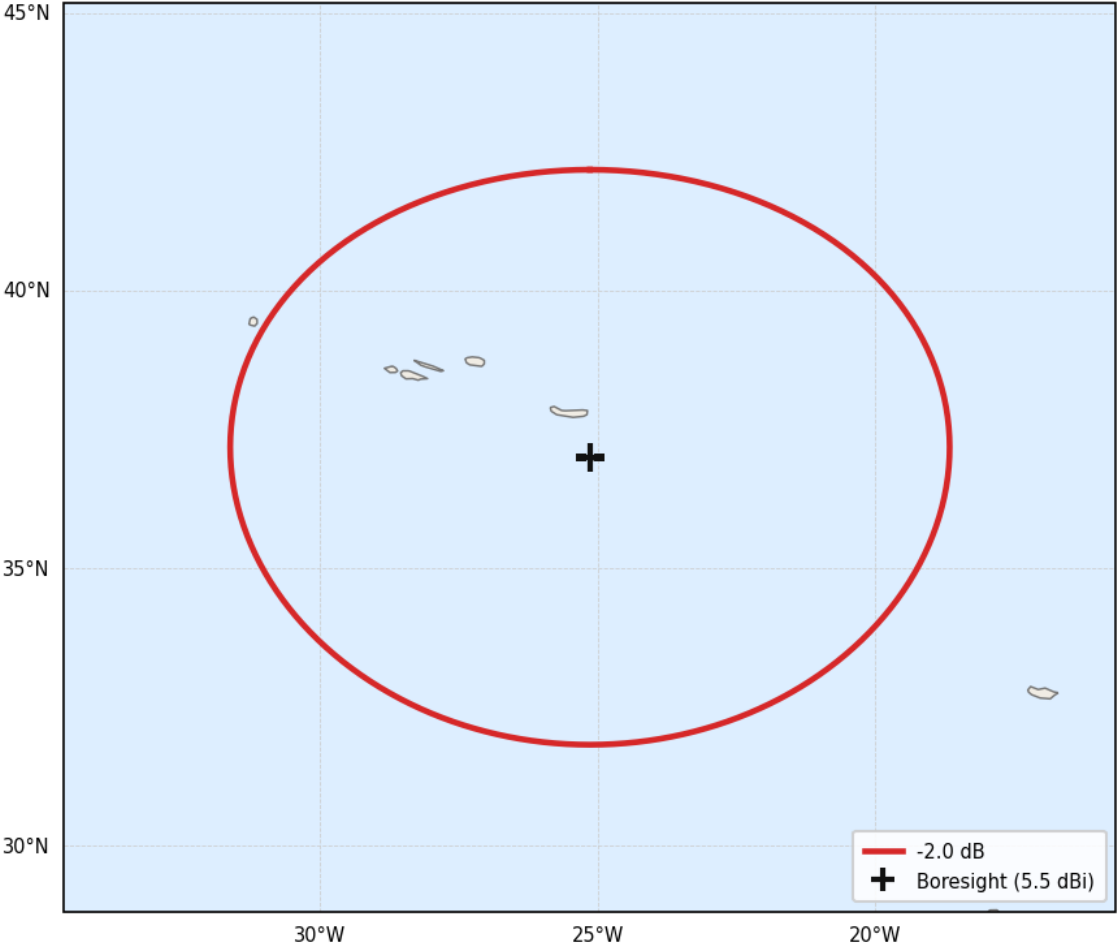
SSP: Santa Maria, Azores (Leaf) (36.9980°N, -25.1370°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Santa Maria, Azores (Leaf)
SSP Longitude	-25.1370° (East positive)
SSP Latitude	36.9980° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Santa Maria, Azores (Leaf)
(36.9980°N, -25.1370°E) [Equirectangular]



SSP: Blonduos, Iceland (Leaf) (65.6470°N, -20.2460°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Blonduos, Iceland (Leaf)
SSP Longitude	-20.2460° (East positive)
SSP Latitude	65.6470° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Blonduos, Iceland (Leaf)
(65.6470°N, -20.2460°E) [Azimuthal Equidistant]



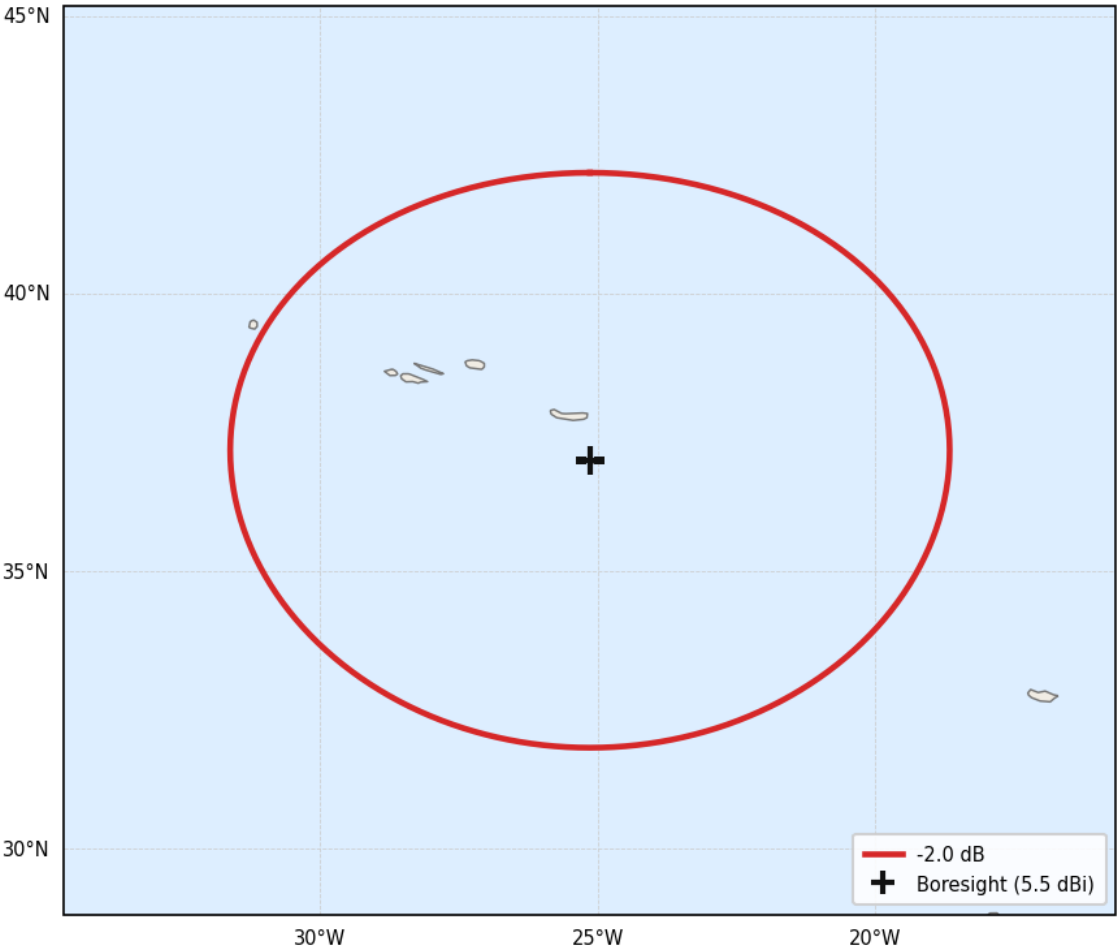
SSP: Santa Maria, Azores (Leaf) (36.9980°N, -25.1370°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Santa Maria, Azores (Leaf)
SSP Longitude	-25.1370° (East positive)
SSP Latitude	36.9980° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

Beam: SRX2 | SSP: Santa Maria, Azores (Leaf)
(36.9980°N, -25.1370°E) [Equirectangular]

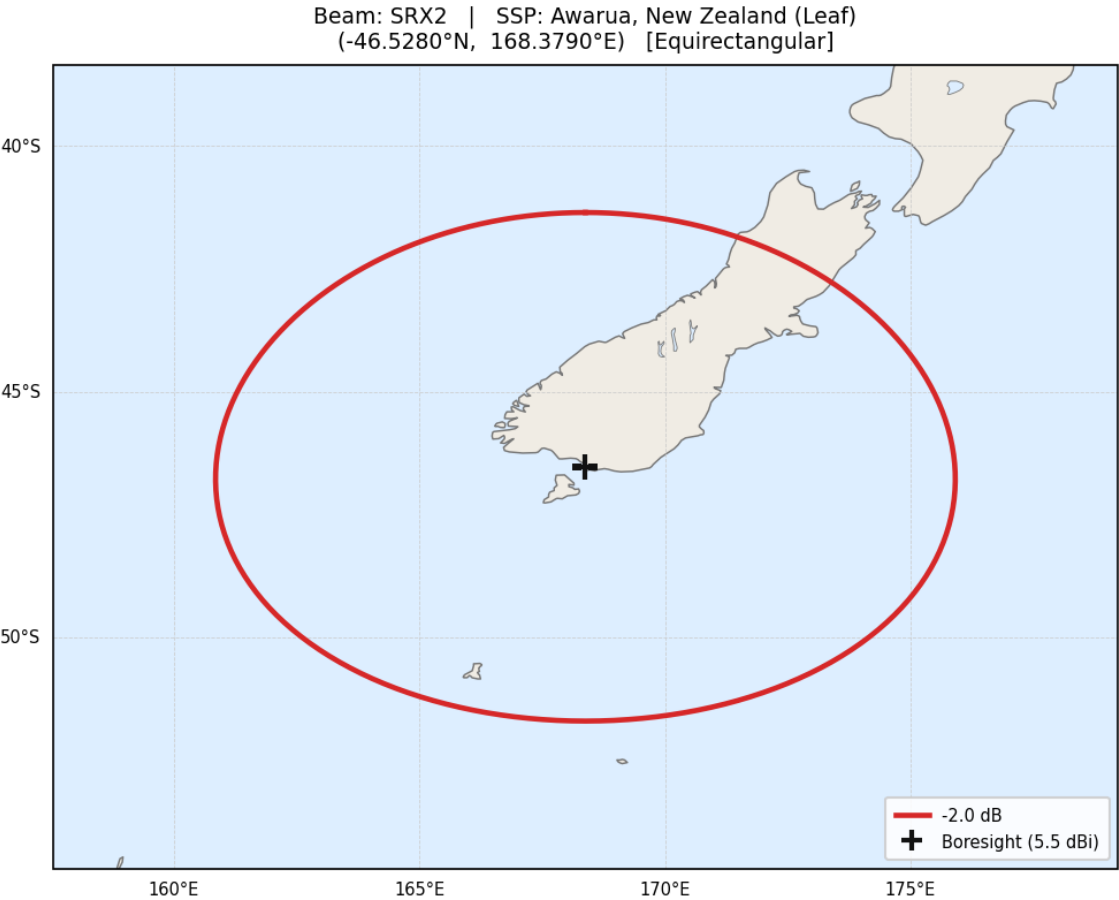


SSP: Awarua, New Zealand (Leaf) (-46.5280°N, 168.3790°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Awarua, New Zealand (Leaf)
SSP Longitude	168.3790° (East positive)
SSP Latitude	-46.5280° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760



SSP: Punta Arenas, Chile (AWS) (-53.1600°N, -70.9200°E)

Parameter	Value
Satellite Name	PROTOSTAR
Administration	USA
ITU Notice ID	1
Beam ID	SRX2
Emission Type	R
Polarisation Disc.	C
Reason Code	A
Orbital Altitude	510.0 km
Earth Radius	6,371.0 km
SSP Label	Punta Arenas, Chile (AWS)
SSP Longitude	-70.9200° (East positive)
SSP Latitude	-53.1600° (North positive)
Points per Contour	360

Gain Contours

Gain (dB)	Nadir Angle (°)	Earth Central Angle (°)
5.5 (boresight)	0.0000	0.0000
-2.0	47.0000	5.1760

