Location

This is the coordinates of the EISCAT facilities in various geographical and geomagnetic coordinate systems. The geographic positions are generally based on a satellite survey from 1981 and agreed with the positions used inside EROS. The Tromsø geographic position comes from a later GPS measurement while the Longyearbyen latitude and longitude come from a measurement with a hand held GPS. The geomagnetic values are calculated for 1 January, 2010, using the DGRF/IGRF model. The values were retrieved 5 February, 2010.

Location	**Tromsø**	**Kiruna**	**Sodankylä**	**Longyearbyen**
Geographic latitude	69°35' N (69.58°)	67°52' N (67.87°)	67°22' N (67.37°)	78°09' N (78.15°)
Geographic longitude	19°14' E (19.23°)	20°26' E (20.43°)	26°38' E (26.63°)	16°01' E (16.02°)
Altitude	86 m	418 m	197 m	445 m
Corrected geomagnetic latitude	66.73°	64.89°	64.14°	75.43°
Corrected geomagnetic longitude	102.18°	101.87°	106.59°	110.68°
L-shell value (ground)	6.45	5.55	5.26	15.81
L-shell value (300 km)	6.70	5.81	5.48	-

Typical values of the geomagnetic field:

Location	**Tromsø**	**Kiruna**	**Sodankylä**	**Longyearbyen**
Dip angle (ground)	78.24°	77.43°	77.39°	82.23°
Dip angle (300 km)	78.19°	77.34°	77.29°	82.35°
Declination (ground)	7.12°	7.45°	10.68°	6.41°
Declination (300 km)	5.49°	5.88°	8.73°	4.05°
B-field north (ground)	10.74 μT	11.40 μT	11.40 μT	7.33 μT
B-field north (300 km)	9.56 μT	10.18 μT	10.20 μT	6.41 μT
B-field east (ground)	1.34 μT	1.49 μT	2.15 μT	0.82 μT
B-field east (300 km)	0.92 μT	1.05 μT	1.57 μT	0.45 μT
B-field down (ground)	51.96 μT	51.58 μT	51.88 μT	54.05 μT
B-field down (300 km)	45.95 μT	45.55 μT	45.77 μT	47.88 μT
B-field hor. (ground)	10.82 μT	11.50 μT	11.60 μT	7.38 μT
B-field hor. (300 km)	9.61 μT	10.23 μT	10.32 μT	6.43 μT
B-field abs. (ground)	53.10 μT	52.84 μT	53.16 μT	54.56 μT
B-field abs. (300 km)	46.95 μT	46.69 μT	46.92 μT	48.31 μT