

Typical Geometrical Accuracy for MSG-1/2

The following tables give the typical accuracy of the image navigation (rectification) for MSG-1/2 for the Level 1.5 images based on the operational IMPF processing. They are formulated in a statistical sense, either over 1 day (absolute error, error over 500 samples) or in a relative sense between two consecutive images.

Geometric Quality Criterion	Specification (km SSP, Pixel SSP)	MSG-1 Performance (km, Pixel)	MSG-2 Performance (km, Pixel)
Absolute Accuracy	< 3.0 km (1.0 pixel)	1.2 km, (0.4 pixel)	1.2 km, (0.4 pixel)
Relative Accuracy between two consecutive Images	< 1.2 km (0.4 pixel)	0.3 km (0.1 pixel)	0.3 km (0.1 pixel)
Relative Accuracy within an image (over 500 samples)	< 3.0 km (1.0 pixel)	1.2 km (0.4 pixel)	1.2 km (0.4 pixel)

Table 1 Geometric Rectification Accuracy of Level 1.5 Data for MSG-1/2

The residual Misregistration is based on the Misregistration of Landmarks in one channel relative to the mean misregistration of all channels. The values are the same for MSG-1 and MSG-2.

Channel Groups	Residual Misregistration Requirement (km)	Residual Misregistration East-West Performance (km)	Residual Misregistration North-South Performance (km)
VNIR	0.6	0.1	0.1
VNIR+HRV	0.6	0.1	0.1
Window (IR39, IR8.7 IR 10.2, IR12.0)	0.6	0.1	0.1
Cold (All except VNIR + HRV)	0.75	0.1	0.1
All	1.5	0.1	0.1

Table 2 Residual Misregistration of Level 1.5 Data for MSG-1/2