

Mercator

Element	Contents	ecCodes keys
1	Data representation type (see WMO code table 6) = 1	gridType
2	Number of points along a parallel.	Ni Nx
3	Number of points along a meridian.	Nj Ny
4	Latitude of the first grid point.	latitudeOfFirstGridPointInDegrees*1000
5	Longitude of the first grid point.	longitudeOfFirstGridPointInDegrees*1000
6	Resolution flag: 0 Direction increments are not given. 128 Direction increments are given.	ijDirectionIncrementGiven*128
7	Latitude of the last grid point.	latitudeOfLastGridPointInDegrees*1000
8	Longitude of the last grid point.	longitudeOfLastGridPointInDegrees*1000
9	Latitude at which the Mercator projection cylinder intersects the Earth(Latin).	latitudeAtWhichTheMercatorProjectionCylinderIntersectsTheEarthInDegrees*1000
10	Reserved. Set to 0.	
11	Scanning mode flags (see WMO code table 8)	iScansNegatively jScansNegatively jPointsAreConsecutive
12	Number of vertical coordinate parameters.	NV
13	i direction grid length.	longitudinalDirectionGridLength
14	j direction grid length.	latitudinalDirectionGridLength
15-16	Reserved. Set to 0.	
17	0 Regular grid.	gridType
18	Earth flag: 0 Earth assumed spherical with radius 6367.47 km. 64 Earth assumed oblate spheroidal with size as determined by IAU in 1965: 6378.160km, 6356.775 km, f=1/297.0	earthIsOblate
19	Components flag: 0 Resolved u and v components of vector quantities relative to easterly and northerly directions. 8 Resolved u and v components of vector quantities relative to the defined grid in the direction of increasing x and y (or i and j) coordinates respectively.	uvRelativeToGrid
20-22	Reserved. Set to 0.	

Grid lengths are in units of metres, at the parallel specified by Latin