

Use Cases for Discussion:

1. GPS/GNSS Instrumentation Provides (x,y,z) triple with stated CRS/Ellipsoid (3D geodetic)
 - a. These are basically supported (split into horizontal CRS and vertical datum)
 - b. **Action:** need to make sure that the support is clear and concise, possibly refactor.
2. GOES satellite instrumentation - Possible extension for non-earth-fixed datums.
 - a. Examples:
 - i. "Earth-Centered Inertial" frame: earth-centered, but *not* earth-fixed (geographic lat/lon make no sense here)
 - ii. helio-centric CRS
 - b. **Action:** Work with Space Science and Remote Sensing to expand grid_mapping types?

Proposal for CF 2.0

Make lat/lon auxiliary coordinates optional provided that:

- Require declaration of grid mapping using grid_mapping variable (or a reference?)
- Work to cross-walk CF and WKT/Proj4

<http://spatialreference.org/ref/epsg/4326/>

<http://spatialreference.org/ref/epsg/4326/ogcwkt/>

<http://spatialreference.org/ref/epsg/4326/proj4/>

<http://spatialreference.org/ref/epsg/4326/cfgm/> ????

- Work up implementations (Python, C, Java, R, ...) converting grid_mappings to EPSG/proj4 etc.