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Glider Guidance System (GGS) Configuration Guide

This guide provides details on configuring your GGS mission using the provided .json file. Each section of the configuration file is detailed below.

MISSION Section

This section outlines general settings for the mission.

- mission_name: (String) The name of the mission.
- target_date: (String) The target date for the mission data. Use null for the current date and time, or specify a date in the format "YYYY-MM-DD HH:MM:SS".
- max_depth: (Integer) The maximum depth for the mission in meters.
- **extent**: (Array of Arrays) Geographic bounding box for the mission, specified as [[Min Lat, Min Lon], [Max Lat, Max Lon]].
- **GPS_coords**: (Array of Arrays) Specific GPS coordinates of interest, specified as [[Lat 1, Lon 1], [Lat 2, Lon 2], ...]. Use null for None.
- **glider_id**: (String) The ERDDAP glider ID to track. Use null for None.

MODEL Section

This section configures the ocean model data settings.

- **single_datetime**: (Boolean) Set to **true** to process a single date-time, **false** otherwise.
- enable_rtofs: (Boolean) Set to true to enable the RTOFS model, false to disable.
- enable_cmems: (Boolean) Set to true to enable the CMEMS model, false to disable.
- enable gofs: (Boolean) Set to true to enable the GOFS model, false to disable.
- save_model_data: (Boolean) Set to true to save acquired model data, false otherwise.
- save_depth_average: (Boolean) Set to true to save computed depth-average data, false otherwise.
- save bin_average: (Boolean) Set to true to save computed bin-average data, false otherwise.
- **chunk**: (Boolean) Set to true to enable data chunking for performance, false otherwise.

PLOT Section

This section specifies visualization settings.

- latitude_qc: (Float) Latitude for quality control plotting.
- **longitude_qc**: (Float) Longitude for quality control plotting.
- density: (Integer) Density of the streamplot.
- mag1 mag5: (Float) Thresholds for magnitude levels in the plot.
- tolerance: (Float) Advantage zone tolerance in degrees.
- show_gliders: (Boolean) Set to true to show gliders on the plot, false otherwise.
- **show_route**: (Boolean) Set to true to show the glider route, false otherwise.
- **show_eez**: (Boolean) Set to **true** to show Exclusive Economic Zones (EEZ), **false** otherwise.
- **show_qc**: (Boolean) Set to **true** to show quality control markers, **false** otherwise.
- manual_extent: (Array of Arrays) Manual specification of plot extent, specified as [[Min Lat, Min Lon], [Max Lat, Max Lon]]. Use null for automatic.

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DATA Section

This section defines paths to data resources used by GGS.

- **bathymetry_path**: (String) Path to the bathymetry data file.
- **eez_path**: (String) Path to the Exclusive Economic Zones (EEZ) shapefile.
- reprocess: (Boolean) Commands the reprocessing of netCDF files in the local '/data/reprocess' folder.