

## b. CO-OPS updated zoning

CO-OPS updated its own regional zoning using the data collected by JOA. Co-phase and co-range lines were regenerated to take into account the new data. Figure 4 shows the CO-OPS generated HWI, LWI, and MN contours.

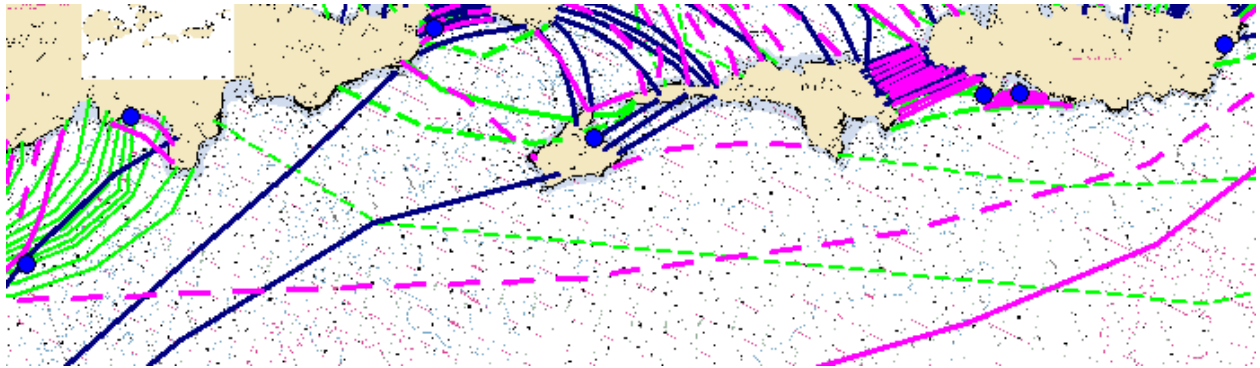


Figure 4: CO-OPS updated HWI(Bright Green), LWI (Blue), and MN (Pink) contours. Note the increased complexity or the regions south of Broad Bight and north of Avatanak Island where tide types are changing from mixed, mainly diurnal (south and east) to mixed mainly diurnal (north and west).

Regional zoning was generated using the updated co-phase and co-range contours. Figure 5 shows the CO-OPS updated zoning for the survey region. A total of 26 zones were created, though not all of the zones are applicable to the specific survey regions.

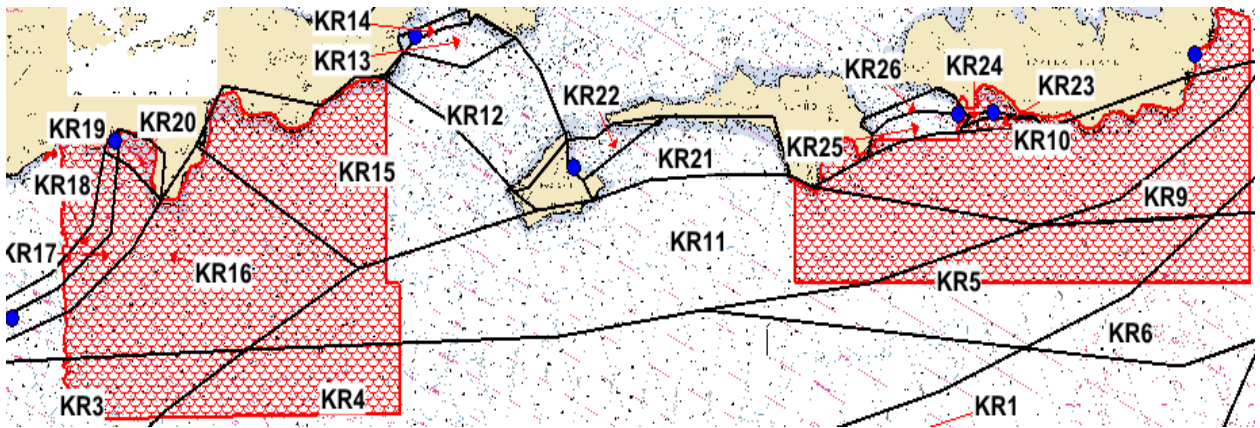


Figure 5: Updated CO-OPS zoning for Region 1 and Region 2 of the survey area.

The tertiary stations of SE Tigalda Is. and Broad Bight are used as control for all but three of the updated zones. Green Bight is used to control zones KR12, KR13, and KR14. These zones do not cover any part of the survey area. Table 2 lists the time correctors, range correctors, and control stations for each of the zones.