**STELLA How To Guide**

TASK > New Initial Fix

BOX (This action will create a new….) > YES

Input Date/Time (in UTC), Lat/Long, Cse & Spd > OK

Initial Fix is entered into log, verify you did not make any typos – if so simply restart with new initial fix.

Preparation of Star Sights

TASK > RISE/SET/TRANSIT > UNDERWAY

Enter Date, HOE, Select Body (Sun) (You may use the Time Zone conversion e.g. for A put 1 hour E, but recommend sticking with Zulu (UTC) to remain consistent. You can be successful with STELLA, if you always use Zulu.

Log will list all salient data, record as necessary.

SKY Chart

TASK > SIGHT PLANNING > SKY CHART

Enter desired date and specify Morning or Evening for Stars.

Determine which stars are preferred (Yellow is primary, Red is secondary). If you are asked to identify stars find those which azimuths and altitude are closest to those listed.

If you are asked to determine which stars are being referred to based on bearing and attitude, ensure the times of the sight match closely to the star chart (within 5-10 minutes), IF NOT, close the sky chart and reenter the TASK>SIGHT PLANNING>SKY CHART and select OTHER and enter a more appropriate time.

PLOTTING A FIX

TASK > SIGHT REDUCTION > RECORD OBSERVATIONS

Enter in the date, time in Zulu (UTC) of sight, body, Hs, Quality, HoE, IC (Index Error), Temp and Pressure for each Observation. Click Add.

If you make a mistake before hitting Done, you may toggle back and update star, simply click add again, and (ADDED) will appear in the upper portion of the box.

Once you hit done, SAVE TO LOG, then verify that you did not make any typographical errors. If you have made an error you may right click on the Celestial Body in the left hand column and then click edit. You will notice in your log that it will update any corrections.

TASK > SIGHT REDUCTION > COMPUTE FIX

Select the default (The most recent observation) for Choose Time of Fix > OK

Press enter for Solution. Record Celestial Fix from upper left corner.

UPON CLOSING, Do NOT save changes (It will ask you to save it as a notepad or similar file) > Click No

**You MUST SAVE TO LOG** – This will update your position and failure to save this to the log will result in all of your data from this point forward to be based off the old initial fix.

Preparation of Star Sights (You will need new data, with updated Celestial Fix)

TASK > RISE/SET/TRANSIT > UNDERWAY

Enter Date, HOE, Select Body (Sun) (You may use the Time Zone conversion e.g. for A put 1 hour E, but recommend sticking with Zulu (UTC) to remain consistent. You can be successful with STELLA, if you always use Zulu

Log will list all salient data, record as necessary

Calculating GYRO ERROR by Azimuth of the Sun

TASK > GYRO/COMPASS ERROR > DETERMINATION

Enter Time/Date in UTC, and Observed Azimuth > OK

SAVE TO LOG

See the computed Gyro/Compass Error.

Record as necessary.