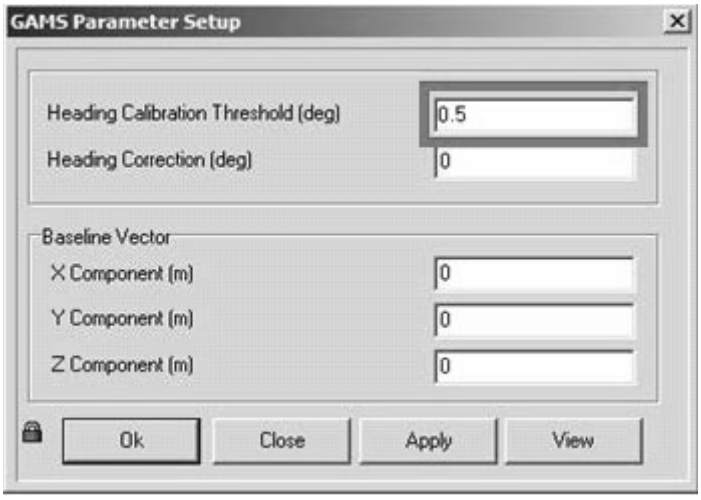
4. GAMS Calibration

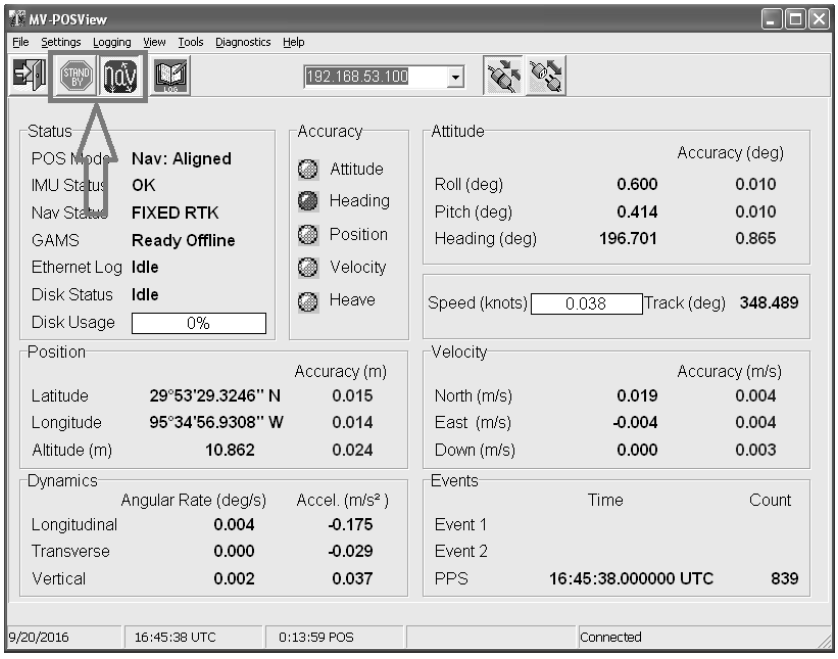
- Select **Settings > Installation > GAMS Parameter Setup**
- Ensure that the X, Y and Z components of the Baseline Vector are all zero.
- Enter a heading threshold value typically 0.5° or 1.0° dependent upon dynamic motion available to vessel. The more dynamic the vessel, the lower this value.

Figure 7. *GAMS Parameter Setup*



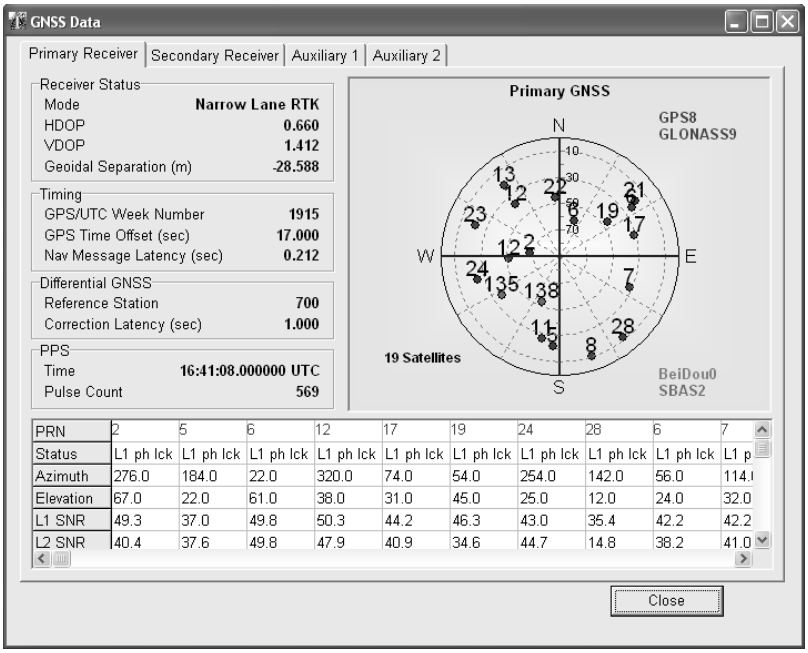
- Change the POS MV Status to Standby and then back to Navigate to reset the system.

Figure 8. *Reset the System*



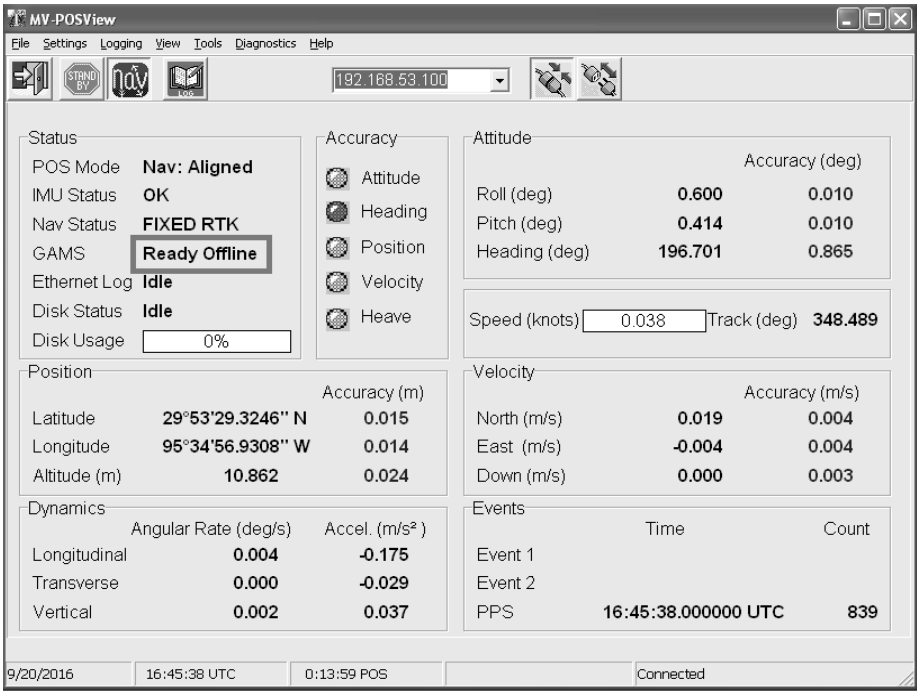
- Select **View > GNSS data** and ensure that you have satellites on both the Primary & Secondary Channels.

Figure 9. *GNSS Data*



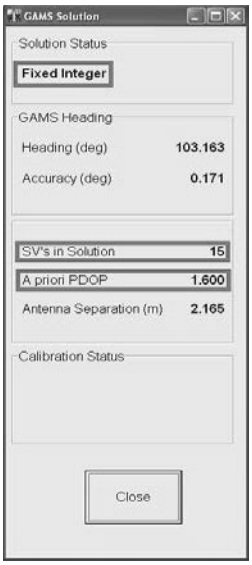
- On the main display wait for the GAMS Status to change from “Not Ready” to “Ready Offline”.

Figure 10. *GAMS Ready Offline*



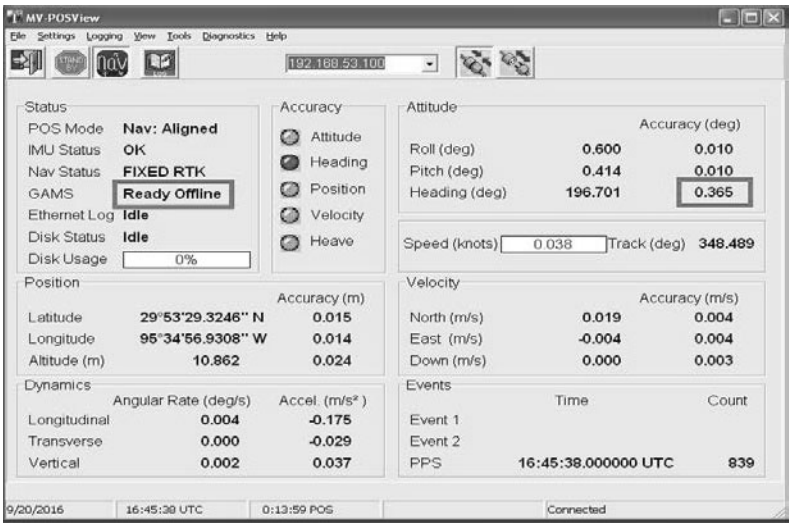
- Select **View - GAMS Solution**
- The Solution Status should show *Fixed Integer*.
- The number of satellites in view should exceeds 5, and the PDOP should be less than 3.0.

Figure 11. *GAMS Solution*



- Maneuver the vessel through aggressive turns (figure 8s and s-turns) incorporating changes of speed and direction.
- Wait for the Heading Accuracy on the main screen to show accuracy below the threshold value entered (try to obtain lowest value possible) the GAMS Status should continue to show Ready Offline.

Figure 12. *GAMS Ready Offline, Heading Accuracy below Calibration Threshold.*

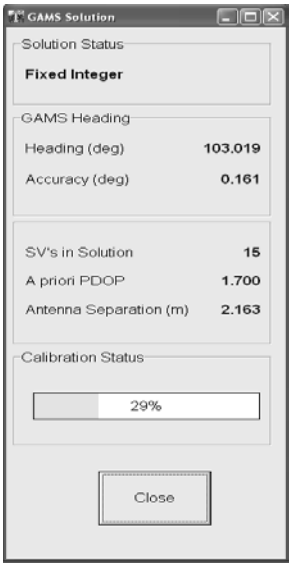


- Once below the Calibration Threshold. Maneuver the vessel to maintain a constant heading.

Start Calibration

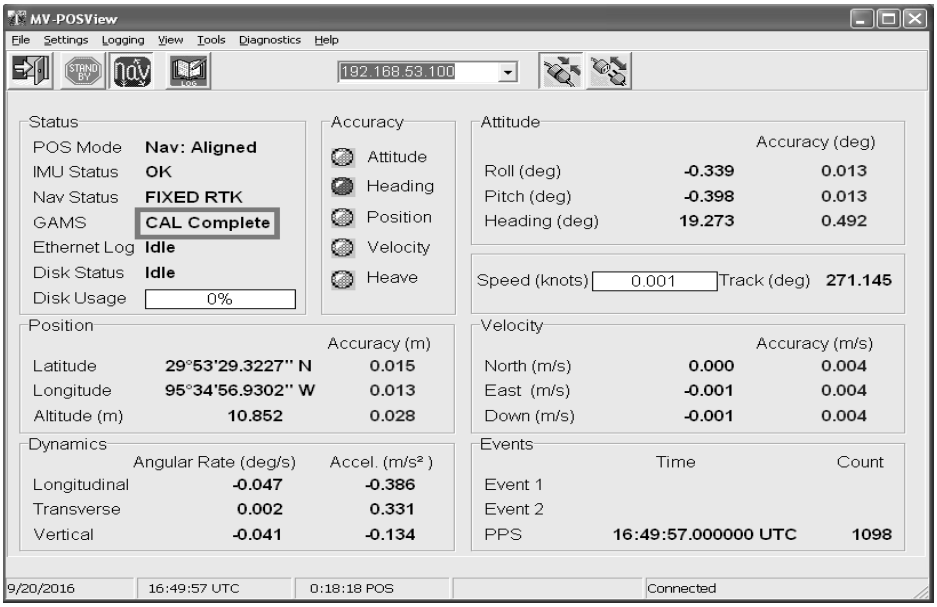
- Select **Settings > GAMS Calibration Control >Start**
- Monitor the calibration progress from the **View > GAMS solution** window.

Figure 13. *GAMS Solution – Calibration Status*



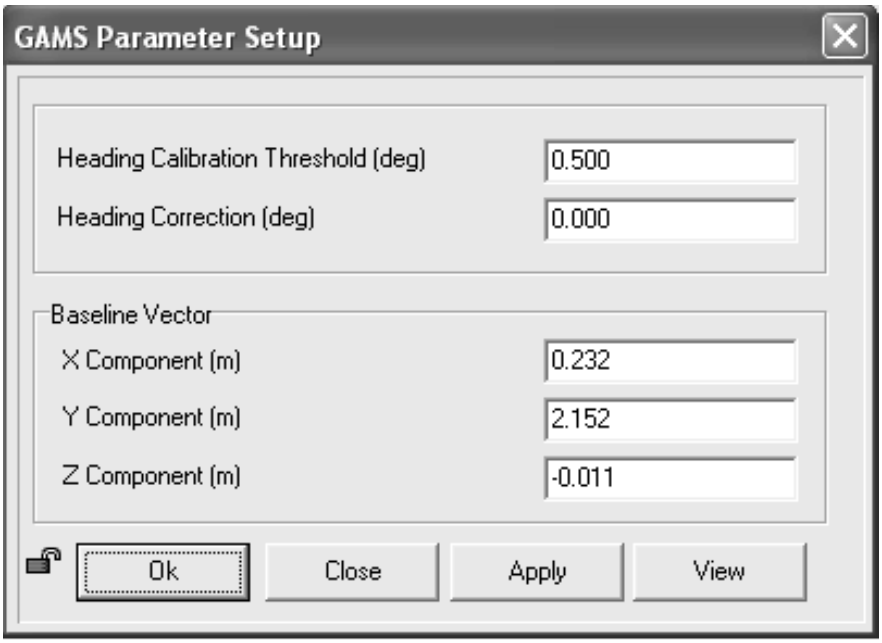
Once the calibration is at 100% the Main display will show ***Cal Complete***.

Figure 14. *GAMS Cal Complete*



View the Calibration results **Settings > Installation > GAMS Installation.**

Figure 14. *GAMS Parameter Setup*



- Monitor GAMS status for 10 minutes. GAMS Status should normally read ***Online***. (The occasional ***Ready Online*** message can be ignored).
- If the calibration parameters are not valid, then the status screen will show repeatedly ***Ready Online*** or ***Not Ready***. This will also be reported in the message log as GAMS solution NOT In Use or GAMS Ambiguity Resolution Failure. If this occurs, check the rigidity of the antenna mounts and then repeat the calibration procedure.

Save Settings

- Select **Settings > Save Settings**

- It is good practice to perform a minimum of 3 GAMS calibrations and verify the results (X, Y, and Z Component values) are similar and consistent between each Calibration.

- When performing additional GAMS Calibrations, you must first set the X, Y, and Z Component values (In the GAMS Parameter Setup window) back to 0.00. Then toggle to ***Standby*** and back to ***NAV*** to reset the system.