

Determine the Quality of Final Solution

The best method to check the quality of the final solution would be to analyze the plots. This can be found under the 'Output' menu or press F7 or click . The following are some of the plots that might be useful:

1. Combined Separation Plot

This should be the one of the first plot to look at. It shows the difference between the forward and reverse solution. An ideal solution should have *separation* of zero as this indicates that the carrier phase ambiguities have been determined to be exactly the same value in both directions. This plot gives the user an idea of what kind of accuracy they are getting. Looking at Figure 1, the accuracy seems to be approximately 5 cm. Another similar plot to look at is 'Combined RMS' plot.

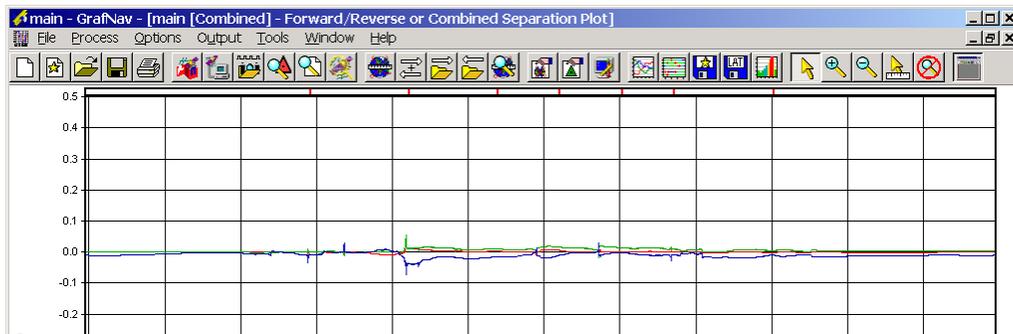


Figure 1. Combined Separation Plot

2. Float or Fixed Ambiguity Status Plot

This plot shows if the solution is float or fixed. Fixed integer ambiguities generally have better accuracies (usually < 20 cm accuracy). Ideally the plot should show *fixed* (green) as this indicates a fix in both directions. Furthermore, the separation plot shown in Figure 1 is the most meaningful. A fix in just one direction (dark green) is generally ok too, but it cannot be verified via the combined separation plot.

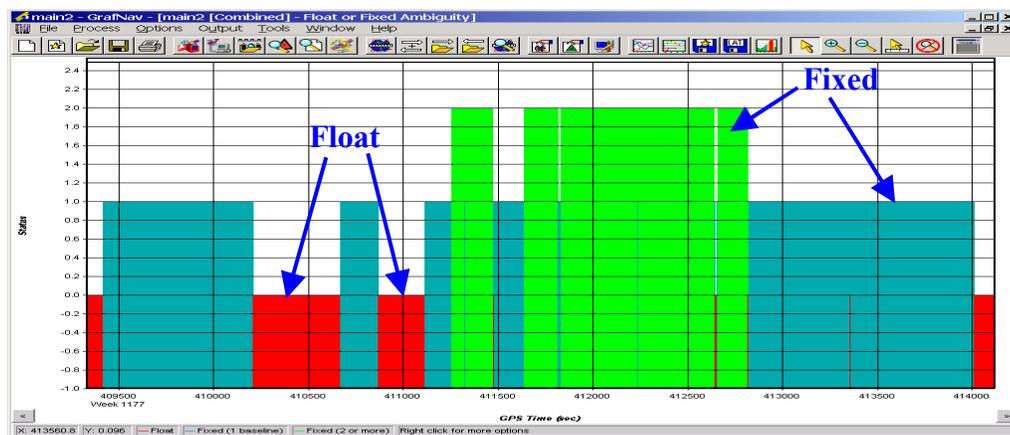


Figure 2. Float or Fixed Ambiguity Status Plot

3. Quality Factor Plot

This plot shows the quality of the solution. There are five different quality factors:

- Quality 1 – Fixed Integer (Green)
- Quality 2 – Stable Float (Aqua)
- Quality 3 – Converging Float (Blue)
- Quality 4 – DGPS or worse (red)
- Quality 5 – Single Point (Yellow)

Increasing quality factors indicate a worse solution. This is not a perfect indication, but it can be useful to isolate problem areas.

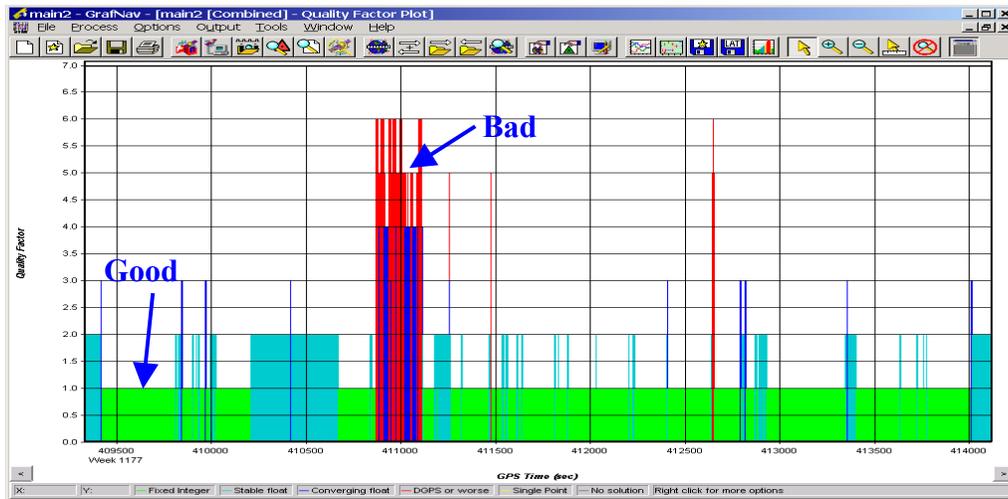


Figure 3. Quality Factor Plot