

OxTS RT – Improving Accuracy of Measurements

Adjust initial settings

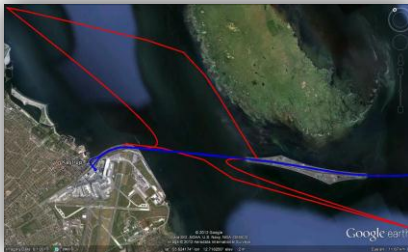
Correct data, use additional settings (such as advanced slip),

Combine Forwards and Backwards Processing

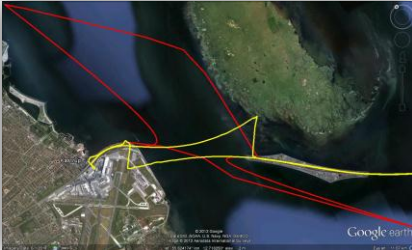
Reduce drift during long GPS outages, such as tunnels.

Accurate Results where a GPS product would struggle

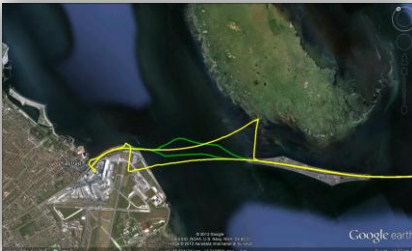
Typical result using only GPS



Using wheel speed encoder reduces longitudinal drift (yellow)



Forwards and Backwards Processing (green)



Reduces drift at the entrance and exit of the tunnel in either direction

Example: Denmark to Sweden Øresund tunnel- 2.5 mile straight. All results from ONE data file.

Impossible conditions for GPS

...but using OxTS RT, wheel speed and post-processing techniques, impressive results can be obtained.

1: Raw data, drift due to tunnel and no GPS data.

2: Wheel Speed Encoder reduces longitudinal drift

3: Addition of Forwards and Backwards Processing will reduce the drift at the entrance and exit in either direction

4: Finally, enabling advanced slip (blue) will drastically reduce the lateral drift during GPS outage

From an unusable data set to very good data in a few short steps...

No test repetition, simply processing the data yields excellent results.

This sort of result would be impossible to achieve using a GPS only product.

