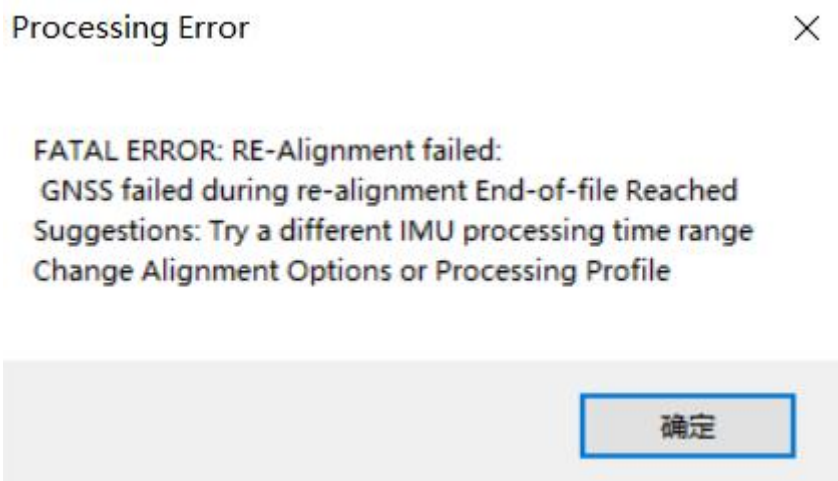


IE 轨迹解算报错

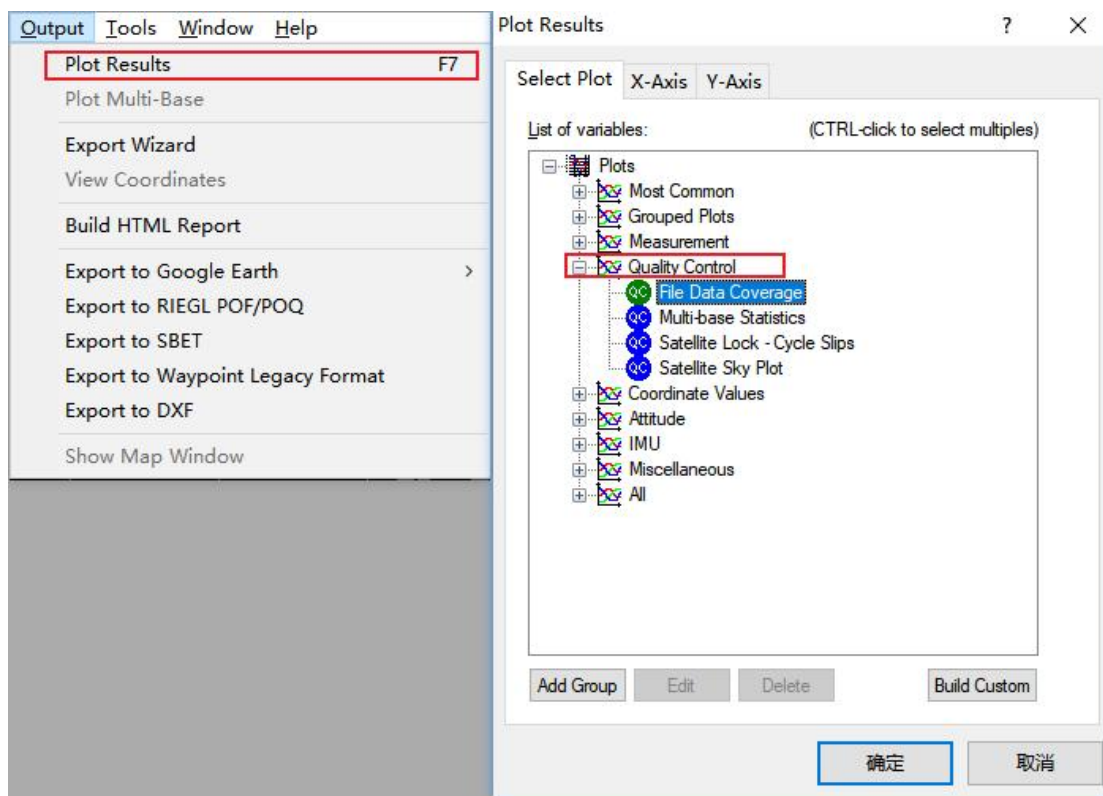
提示【FATAL ERROR:Alignment unsuccessful->GNSS failed during auto alignment /Suggestions:Try a different IMU process time range/Change Alignment Options or Processing Profile】或者【FATAL ERROR: RE-Alignment failed: GNSS failed during re-alignment Endof-file Reached Suggestions: Try a different IMU process time range/Change Alignment Options or Processing Profile】

当遇到轨迹解算提示如下图错误时，

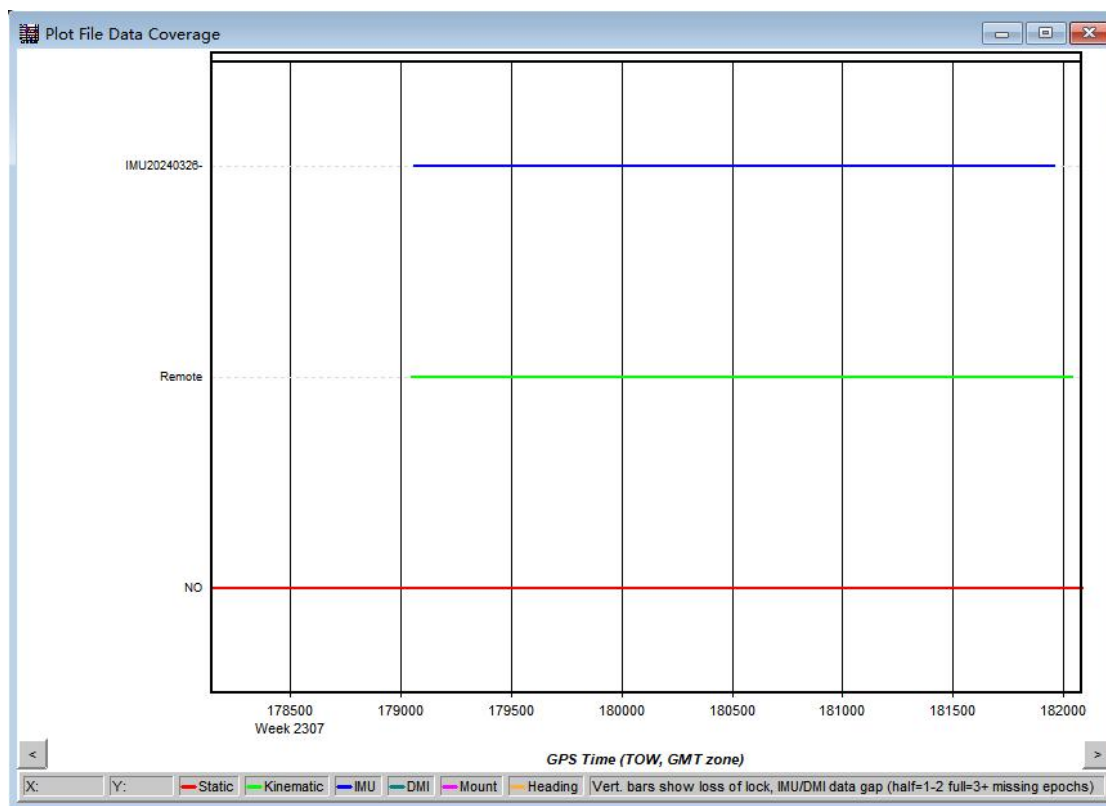


首先检查机载文件数据、基站数据、IMU 数据时间是否对应，检查方法如下：

- 1、在 IE 工程中，加载机载文件数据、基站数据、IMU 数据后，在菜单栏依次打开【Plot Results】 - 【Quality Control】 - 【File Data Coverage】



2、图中所示分别为：蓝色对应 IMU 观测时间、绿色对应机载文件观测时间、红色对应基站文件观测时间，需要注意的是 IMU 时间（蓝色）应于流动站时间（绿色）基本一致，且包含在基站观测时间（红色）内。

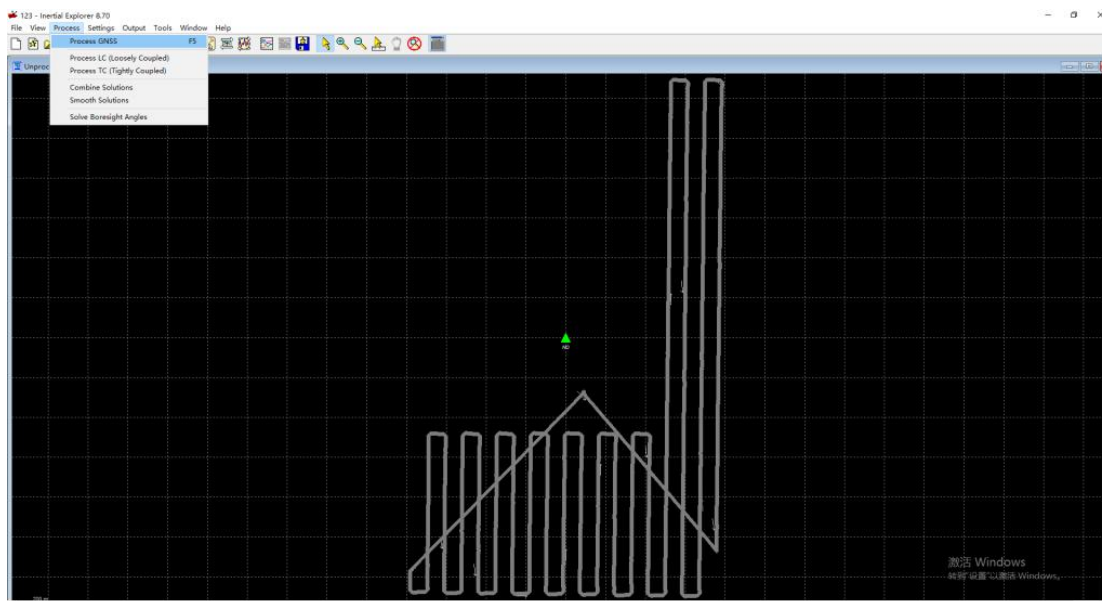


其次检查紧耦合解算参数是否填写正确，尤其是旋转角度：

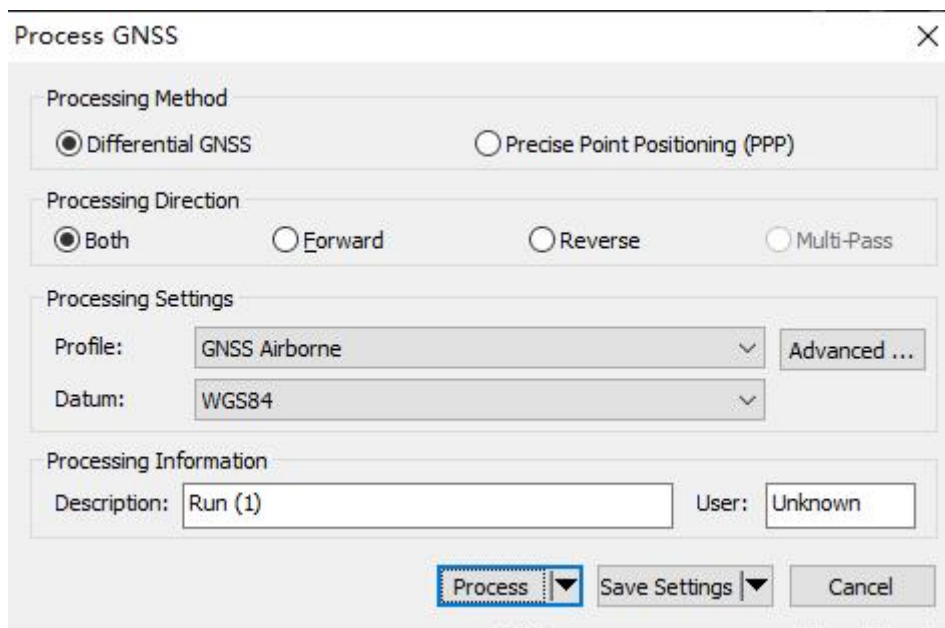
The figure is a "Vehicle Profile Manager" dialog box. It contains a list of "Saved Vehicle Profiles" with entries "d2000lidar2000", "d20lidar224930", and "Vehicle". Below this is the "Profile Values" section for the selected profile "d500lidar2000". It includes several parameter groups: "IMU to Primary GNSS Antenna Lever Arm" with X: -0.347 m, Y: 0.047 m, Z: 0.155 m; "IMU to Secondary GNSS Antenna Lever Arm" with X: 0.000 m, Y: 0.000 m, Z: 0.000 m; "Body Frame to IMU Frame Rotation" with X: 0.000 deg, Y: 0.000 deg, Z: -90.000 deg (this row is highlighted with a red border); "IMU to Gimbal Lever Arm" with X: 0.000 m, Y: 0.000 m, Z: 0.000 m; "IMU to DMI Lever Arm" with X: 0.000 m, Y: 0.000 m, Z: 0.000 m; and "GNSS Heading Offset" with a value of 0.000 deg. Buttons for "Remove", "Save Profile", "OK", and "Cancel" are present.

如果排除上述两种情况后，依然没有解决问题，原因可能是起飞降落后飞机受到干扰，解决方法如下：

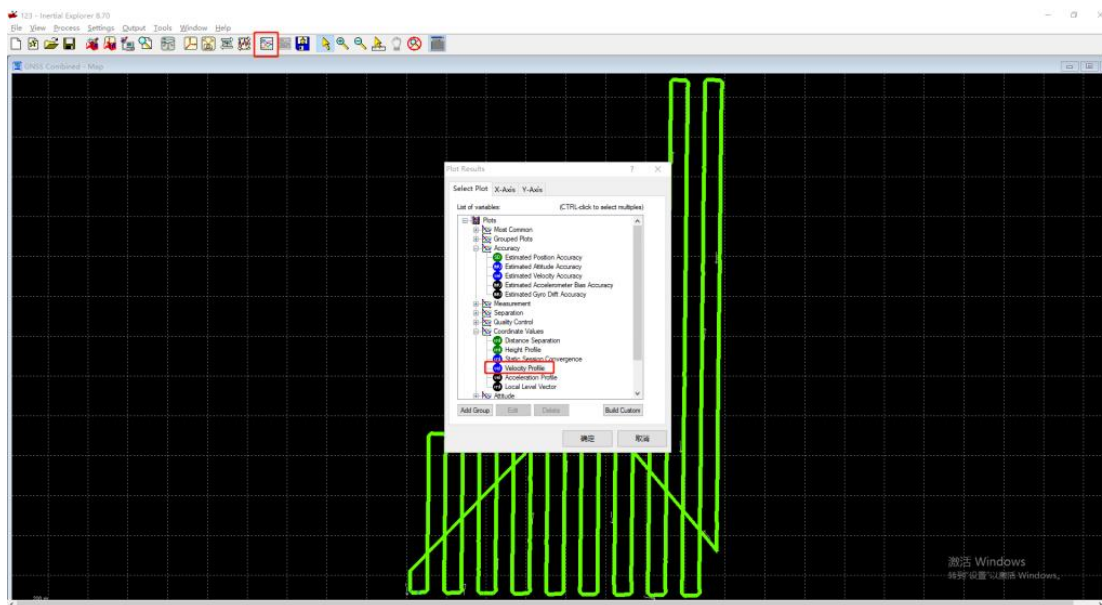
1、添加完基站、流动站、IMU 数据后选择【Process】 - 【Process GNSS】。



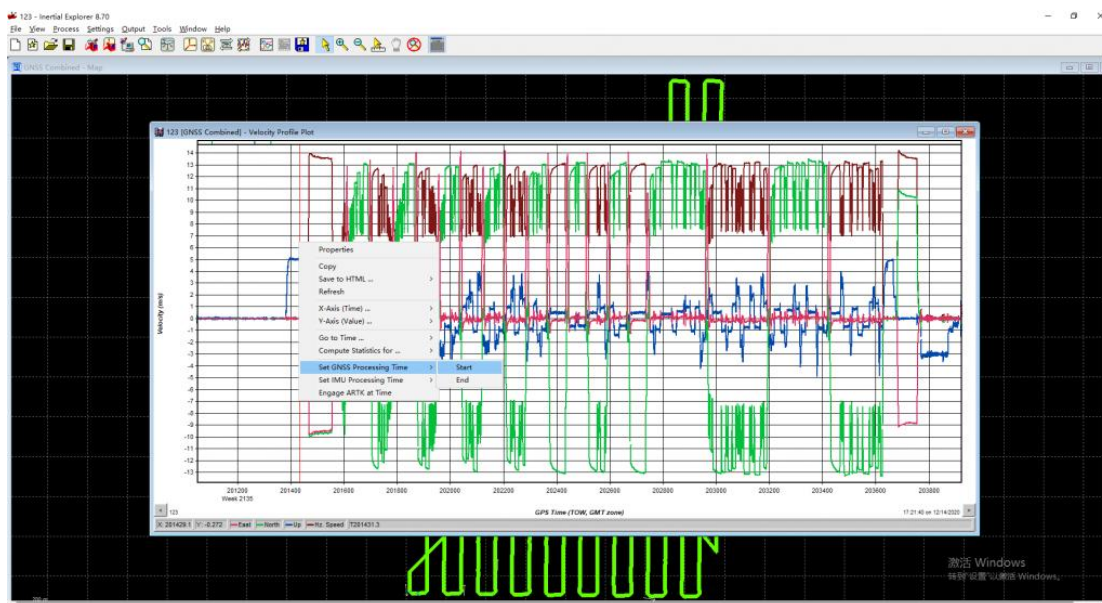
2、按照默认设置点击【Process】开始处理，中途出现提示点击【Continue】。



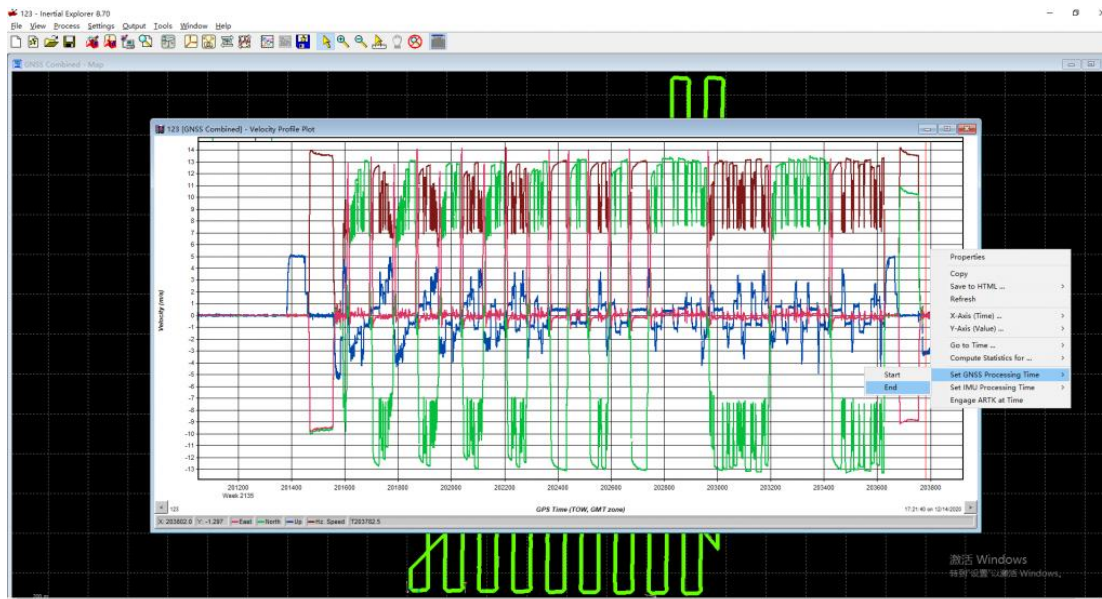
3、处理完成后选择【Plot Results】-【Velocity Profile】。



4、鼠标左键点击起飞时刻区域，出现红线，然后右键【Set GNSS Processing Time】-【Start】，设为起点。



鼠标右键点击降落时刻区域，出现红线，然后右键【Set GNSS Processing Time】-【End】，设为终点。



一般依据蓝线进行判断，不要求太精确，只要不多去即可。

5、点击【Process】-【Process Tightly Coupled】，开始正常解算。