Status of the IDS Combination Center activities

Guilhem Moreaux
<table>
<thead>
<tr>
<th>AC</th>
<th>Series Nb</th>
<th>Time period</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOP</td>
<td>50</td>
<td>1993:003 – 2016:360</td>
<td>Differences wrt GOP 43: no more use of CNES preprocessing indicators and downweighting of the observations</td>
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<tr>
<td>GRG</td>
<td>40</td>
<td>1993:003 – 2016:360</td>
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<tr>
<td>IDS</td>
<td>12</td>
<td>1993:003 – 2016:360</td>
<td>ESA10 + GOP43 /50+ GRG40 + GSC26/28 + IGN 15 + INA10 All the ACs contribute to the combined scale Include all the stations treated by at least 2 ACs</td>
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</tbody>
</table>
Helmert parameters wrt ITRF2014

GOP 50: scale offset of nearly 14 mm / GOP 43.
EOP differences wrt IERS C04

Earth Orientation Parameters wrt IERS C04

False jump – differences less scattered
No event in 2016 doy 322

Time span: 2015:267-2016:321

Time span: 2016:322-2016:366

IDS Workshop – London – May 22nd 2017
• IDS 12 scale acress by around 5 mm.
• No more ESA contribution since 2015 doy 179.
• Scale increase of GOP 43, IGN 15 and INA 10.
• Link to upgrade from GDR-D to GDR-E ?
  - Jason-2 in 2015/05/25
  - Cryosat-2 in 2015/06/18
  - Saral in 2015/07/02
 GOP 50 scale seems to be at the level of GOP 43 scale before GOP 43 scale increase mid 2015.
Conclusions

• Points to investigate: scale increase mid 2015.

• Scale increases in 2012 and 2015 may have the same origin so may be solved by the ACs by implementing its own data preprocessing/editing.