CNES/CLS Analysis Center (LCA)
About ITRF2008P

L. Soudarin\textsuperscript{1}, H. Capdeville\textsuperscript{1}, J.-M. Lemoine\textsuperscript{2}
\textsuperscript{1} CLS, Collecte Localisation Satellites, Ramonville, France
\textsuperscript{2} CNES, Toulouse, France
• Operating stations not included in ITRF2008P: RIKB, BETB, SODB
  → Need to express their DPOD2005 coordinates into ITRF2008

• A few « non permanent » stations not included in ITRF2008P

• 6 sites with more than 1 velocity:
  Reykjavik: 3 estimations
  Sakhalinsk: 2 estimations
  Tristan da Cunha: 2 estimations
  Fairbanks: 5 estimations
  Arequipa: 2 estimations
  La Réunion: 2 estimations
DORIS velocities: ITRF2008P
Reykjavik:
1st period. REYA/REYB1
2nd REYB2/REZB1/REZB2
3rd REZB3: earthquake on 08:150; estimation on 7 months → we should look carefully at this velocity as it is very different from the previous periods which were in agreement with the geological plate models.

Sakhalinsk:
1st period. SAKA1/SAKA2/SAKA3/SAKA4
2nd. SAKA5/SAKB2 (NB: SAKB1 and SAKB3 rejected)

Tristan da Cunha:
1st period. TRIA1/TRIA2/TRIB1
2nd. TRIB2: velocity discontinuity on 04:213
Fairbanks: velocity discontinuities after earthquakes
1st period. FAIA1/FAIA2/FAIB1
2nd. FAIB2 (vel. estimated over 60 d)
3rd. FAIB3 (vel. estimated over 82 d)
4th. FAIB4 (vel. estimated over < 2.5 yrs)
5th. FAIB5

Arequipa: velocity discontinuity after earthquake
1st period. AREA
2nd. AREB/ARFB

La Réunion
1st period. REUA/REUB1
2nd. REUB2
→ Zuheir will correct to have only one site velocity
- Wrong DOMES number for HBLB: 30301S006
  Should be 30302S006 like HBKB (the reference point stayed unchanged -same antenna- but the beacon was changed *).
  \( \rightarrow \) Zuheir will introduced contraints so that HBLB/HBKB will have the same velocity.

NB: HBKB/HBLB, TLIA/TLHA and KRUB/KRVB have shared the same antenna but, for these Master Beacons, different acronyms were used when the beacons were changed.

KRUB/KRVB \( \rightarrow \) KRUB in ITRF2008P
TLIA/TLHA \( \rightarrow \) TLHA in ITRF2008P