IGS/RTCM RINEX WG
I. Romero (RINEX WG Chair)
ESA/ESOC/Navigation Support Office

5TH AM/WG MEETING, 11 DEC 2022
The IGS/RTCM RINEX WG serves the IGS and the RTCM SC104 communities at once,

- Half the members from the IGS
- The Chair is one of the IGS RTCM SC104 representatives
- Changes in RINEX are agreed at RTCM level (manufacturers) and IGS level (high-end users) helping in adoption and keeping the format fit for purpose
Observation files are **backward compatible** to RINEX 3.0X

Navigation files are **not** backward compatible, but the legacy navigation message blocks remain as in RINEX 3.0X so very easy to continue reading those with small adjustment, also;

- Navigation messages from any station are not unique, many other stations will have the same messages, so no loss of data.

- IGS merged navigation files will remain available for the foreseeable future (brdcDDD0.YYn in RINEX 2.11, BRDC00IGS… in RINEX 3.0X, etc)

Meteo files are **backward compatible** to RINEX 3.0X
DLR formalized the “_MN.rnx” RINEX4.00 files in data/daily/2022/brdc/

BRD400DLR_S_20221300000_01D_MN.rnx.gz

The IGS Infrastructure Committee proposed and organized early access to R4.00 data files in data/campaign/rinex4 directory.

Early users can access station data and navigation files from 22 May 2022 onwards.

20/23 station files (Obs & Nav) are available from GFZ
RINEX 4.01 - Planned for 2023

- Minor revision
- Address typos and needed corrections/clarifications
- Expand some comments and explanations
- Add GPS signal code “R” (C1R, L1R, D1R, S1R, C2R, L2R, D2R, S2R will be added to the GPS Signal Table 2)
Open Issues to continue evaluating in the WG:

- Navigation Bit Streams (?)
- SBAS correction format (?)
- Future LEO PNT could it affect GNSS data formats and standard (?)
Thank You

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