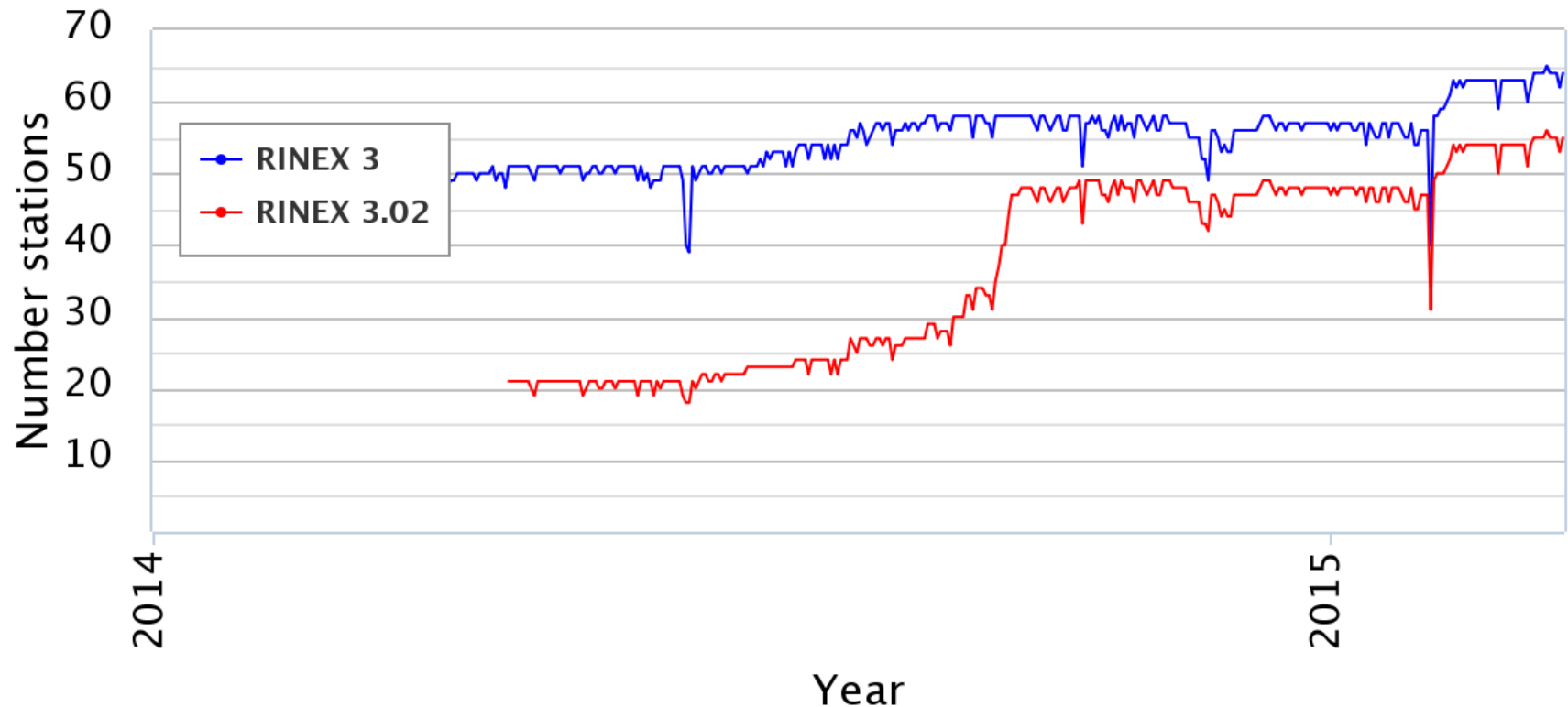


RINEX3 @ EPN CB
and
future EPN data flow

C. Bruyninx
ROB

Increasing nr of RINEX 3.02 data



Uploaded only to and available only from BKG.

File name of RINEX 3 = RINEX 2 file name.

New long file names are not yet used, e.g.

BRUX00BEL_R_201512000000_01D_30S_M0.rnx.gz

STATNAME YYYYDOYHHMM SS

Detailed info on RINEX 3 data availability

Not all stations that indicate GPS+GLO+GAL in their site log are actually submitting RINEX 3 data with GAL, e.g.

BISK BYDG CAG1 COST DRES EBRE GWWL HELG HOE2 LINZ LODZ
NEWL QAQ1 RAMO RANT REDZ RIGA SALA SFER STAS SWKI TERS
USDL ZYWI

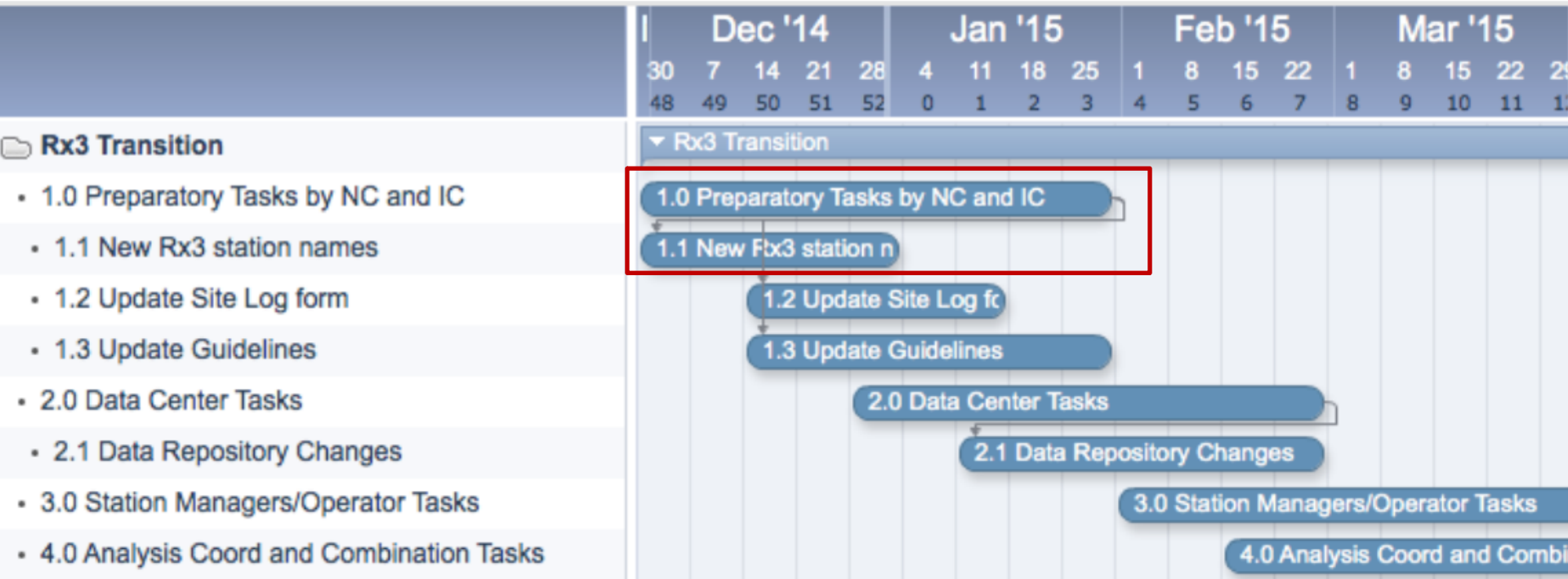
Site log instructions:

Satellite System : (GPS+GLO+GAL+COMP+QZSS+SBAS)

Indicates the receiver capability with the installed firmware.

Station managers are contacted one a month.









IGS RINEX 3 transition plan



Introduction of long RINEX 3 station names

In accordance with IGS CB (upgrade of internal data base in progress, but keeping compatibility with 4-char station names)

http://www.epncb.oma.be/_networkdata/stationlist.php

Long Station Name	City	Receiver Sat. System					RINEX 3 data available
		G	R	E	C	J	S
							
ACOR00ESP	A Coruna	✓	—	—	—	—	—
AJAC00FRA	Ajaccio	✓	✓	✓	✓	—	✓
ALAC00ESP	Alicante	✓	✓	✓	—	—	✓
ALBA00ESP	Albacete	✓	✓	✓	—	—	✓
ALME00ESP	Almeria	✓	—	—	—	—	—
ANKR00TUR	Ankara	✓	✓	—	—	—	—
AQUI00ITA	L'Aquila	✓	—	—	—	—	—

Detailed info on RINEX 3 data availability

Individual station web pages have been upgraded:

GNSS DATA (RINEX, RTCM, ...)

SATELLITE SYSTEM	STATION LOG : GPS+GLO+GAL+BDS RINEX V2.11 : M (MIXED) RINEX V3.02 : GPS+GLO+GAL+BDS	
DAILY	FORMAT : RINEX V2.11 , 30 sec, Hatanaka compressed ACCESS : free	More ...
	FORMAT : RINEX V3.02 , 30 sec, Hatanaka compressed (unvalidated data, only for test purposes!) ACCESS : free	More ...
HOURLY	FORMAT : RINEX V2.11 , 30 sec, Hatanaka compressed ACCESS : free	More ...
	FORMAT : RINEX V3.02 , 30 sec, Hatanaka compressed (unvalidated data - download from here - , only for test purposes!) ACCESS : free	
REAL-TIME	FORMATS : RAW, RTCM 3.0 , RTCM 3.2 ACCESS : free, using Ntrip	More ...

Detailed info on RINEX 3 data availability

GNSS DATA (RINEX, RTCM, ...)

SATELLITE SYSTEM STATION LOG : GPS+GLO+GAL+BDS
 RINEX V2.11 : M (MIXED)
 RINEX V3.02 : GPS+GLO+GAL+BDS

DAILY FORMAT : **RINEX V2.11**, 30 sec, **Hatanaka compressed**
 ACCESS : free

Less ...

DATA CENTRES

Name	Online	Last data	Availability
BKGI	✓	076/2015	100%
OLG	✓	076/2015	100%
ROB	✓	076/2015	100%
EPNCB (historical)	✓	031/2015	N/A

DOWNLOAD DATA

March 2015							
<<	<					>	>>
Wk No	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1834	01 (060)	02 (061)	03 (062)	04 (063)	05 (064)	06 (065)	07 (066)
1835	08 (067)	09 (068)	10 (069)	11 (070)	12 (071)	13 (072)	14 (073)
1836	15 (074)	16 (075)	17 (076)	18 (077)	19 (078)	20 (079)	21 (080)
1837	22 (081)	23 (082)	24 (083)	25 (084)	26 (085)	27 (086)	28 (087)
1838	29 (088)	30 (089)	31 (090)				

FORMAT : **RINEX V3.02**, 30 sec, **Hatanaka compressed**
 (unvalidated data, only for test purposes!)
 ACCESS : free

Less ...

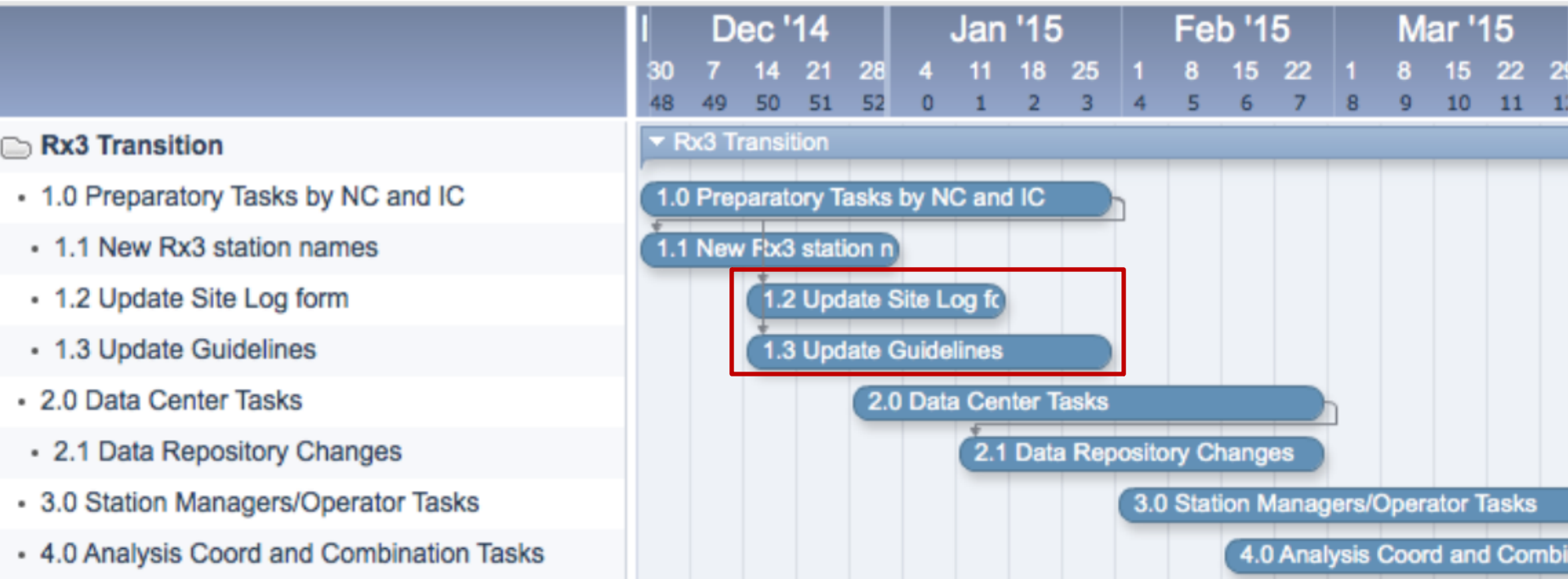
DATA CENTRES

Name	Online	Last data	Availability
BKGI	✓	076/2015	100%

DOWNLOAD DATA

March 2015							
<<	<					>	>>
Wk No	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1834	01 (060)	02 (061)	03 (062)	04 (063)	05 (064)	06 (065)	07 (066)
1835	08 (067)	09 (068)	10 (069)	11 (070)	12 (071)	13 (072)	14 (073)
1836	15 (074)	16 (075)	17 (076)	18 (077)	19 (078)	20 (079)	21 (080)
1837	22 (081)	23 (082)	24 (083)	25 (084)	26 (085)	27 (086)	28 (087)
1838	29 (088)	30 (089)	31 (090)				

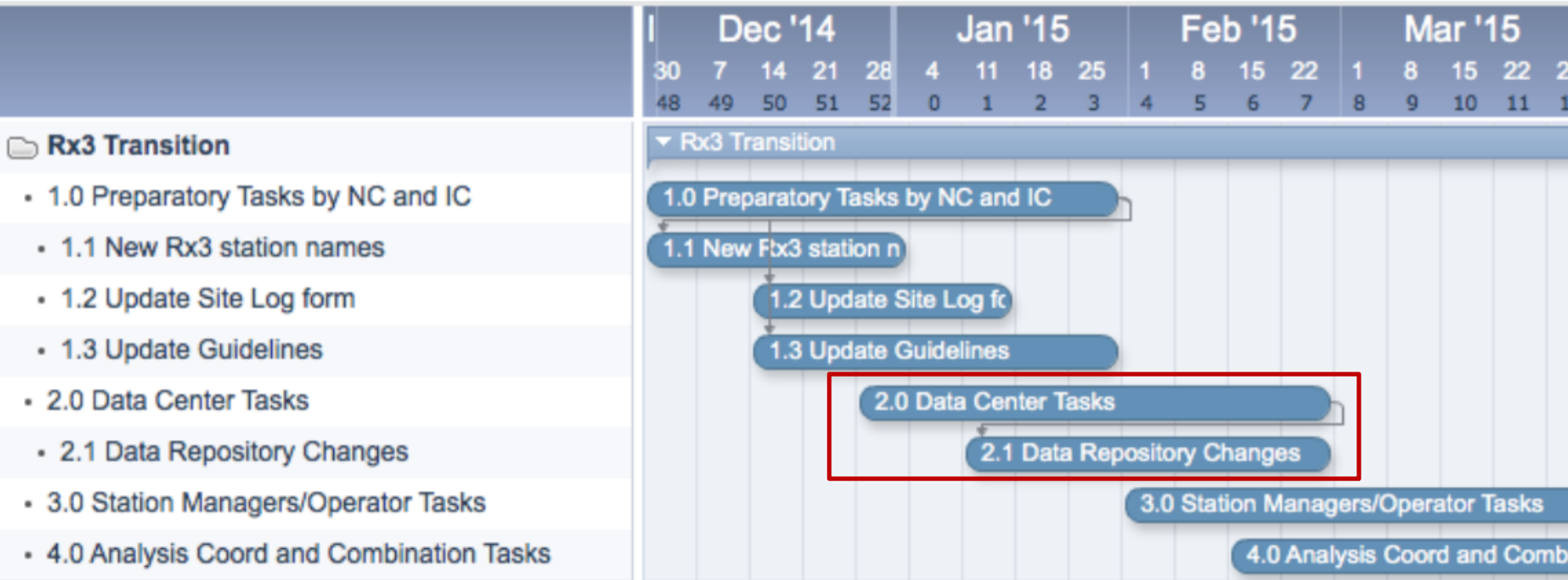
IGS RINEX 3 transition plan



Not yet done at IGS level

EPN: wait for IGS and then get started

















IGS RINEX 3 transition plan



CDDIS:

<ftp://cddis.nasa.gov/pub/gps/data/campaign/mgex/daily/rinex3/2015/060/crx/>

CDDIS RINEX 3 Directory

 CEBR00ESP_R_20150600000_01D_30S_MO.crx.gz	1,471 KB	GZ File	01-Mar-15 21:19
 CEBR00ESP_R_20150600000_01D_EN.rnx.gz	2 KB	GZ File	01-Mar-15 21:19
 CEBR00ESP_R_20150600000_01D_GN.rnx.gz	31 KB	GZ File	01-Mar-15 21:19
 CEBR00ESP_R_20150600000_01D_RN.rnx.gz	34 KB	GZ File	01-Mar-15 21:19
 CEBR00ESP_R_20150600000_01D_SN.rnx.gz	18 KB	GZ File	01-Mar-15 21:19
 KIRU00SWE_R_20150600000_01D_30S_MO.crx.gz	1,402 KB	GZ File	01-Mar-15 21:19
 KIRU00SWE_R_20150600000_01D_EN.rnx.gz	2 KB	GZ File	01-Mar-15 21:19
 KIRU00SWE_R_20150600000_01D_GN.rnx.gz	36 KB	GZ File	01-Mar-15 21:18
 KIRU00SWE_R_20150600000_01D_RN.rnx.gz	37 KB	GZ File	01-Mar-15 21:18
 KIRU00SWE_R_20150600000_01D_SN.rnx.gz	25 KB	GZ File	01-Mar-15 21:18
 KOUR00GUF_R_20150600000_01D_30S_MO.crx.gz	1,546 KB	GZ File	01-Mar-15 21:18
 KOUR00GUF_R_20150600000_01D_GN.rnx.gz	32 KB	GZ File	01-Mar-15 21:18
 KOUR00GUF_R_20150600000_01D_RN.rnx.gz	32 KB	GZ File	01-Mar-15 21:18
 MAL200KEN_R_20150600000_01D_30S_MO.crx.gz	2,179 KB	GZ File	01-Mar-15 21:18
 MAL200KEN_R_20150600000_01D_GN.rnx.gz	32 KB	GZ File	01-Mar-15 21:18
 MAL200KEN_R_20150600000_01D_SN.rnx.gz	12 KB	GZ File	01-Mar-15 21:18

EPN stations

ftp://igs.bkg.bund.de/EUREF/obs_v3/2015/075/

 bscn0750.15l.Z	2 KB	18-Mar-15	00:10:00
 bscn0750.15n.Z	35 KB	18-Mar-15	00:10:00
 bute0750.15d.Z	914 KB	17-Mar-15	02:12:00
 caen0750.15d.Z	1561 KB	18-Mar-15	00:10:00
 caen0750.15f.Z	19 KB	18-Mar-15	00:10:00
 caen0750.15g.Z	41 KB	18-Mar-15	00:10:00
 caen0750.15l.Z	2 KB	18-Mar-15	00:10:00
 caen0750.15n.Z	39 KB	18-Mar-15	00:10:00
 cebr0750.15d.Z	1400 KB	17-Mar-15	00:39:00
 cebr0750.15g.Z	38 KB	17-Mar-15	00:38:00
 cebr0750.15h.Z	36 KB	17-Mar-15	00:38:00
 cebr0750.15l.Z	45 KB	17-Mar-15	00:38:00
 cebr0750.15n.Z	40 KB	17-Mar-15	00:38:00
 crei0750.15d.Z	1687 KB	18-Mar-15	00:10:00
 crei0750.15f.Z	20 KB	18-Mar-15	00:10:00
 crei0750.15g.Z	42 KB	18-Mar-15	00:10:00
 crei0750.15l.Z	2 KB	18-Mar-15	00:10:00
 crei0750.15n.Z	42 KB	18-Mar-15	00:10:00
 dent0750.15d.Z	1079 KB	17-Mar-15	00:05:00

IGS RINEX 3 transition plan

Final goal:

RINEX 3 data with new file name needs to be accepted by DC and put in same directory as RINEX 2 data.

Possible action plan for EPN DC:

- Both RDC accept RINEX 3 (new file name)
 - In separate directory (to get started)
 - In RINEX 2 directory
- What about LDC and historical DC?
- What about previous RINEX 3 data with old filenames? rename or not?
- Start with test uploads of RINEX 3 (new filename)?
- Activities to be coordinated by
EPN data flow coordinator or Chair multi-GNSS WG ?

Next steps?

- Both RDC accept RINEX 3 (new file name)
 - In separate directory (to get started)
 - In RINEX 2 directory
- What about LDC and historical DC?
- What about previous RINEX 3 data with old filenames? rename or not?
- Start with test uploads of RINEX 3 (new filename)
- Activities to be coordinated by EPN data flow coordinator or Chair multi-GNSS WG