

06-July 2020

RINEX 2.11: Compression Method Clarification Addendum

Nacho Romero
IGS RINEX Working Group
ESA/ESOC Navigation Support Office

Ryan Ruddick
Geoscience Australia
Canberra, Australia

As technology has moved on and UNIX compress becomes increasingly difficult to find for file compression we clarify in this short addendum that compressing Rinex 2 files using gzip is now recommended.

1. THE COMPRESSION OF RINEX FILES:

When data transmission times or storage volumes are critical we recommend compressing the files prior to storage or transmission using 'GZIP' AND 'GUNZIP' to compress and uncompress. Compatible routines are available on all Linux, UNIX and PC systems.

Proposed file name extensions for the compressed files:

File Types	All platforms uncompressed	compressed
Obs Files	.yy0	.yy0.gz
Obs Files (Hatanaka compressed)	.yyD	.yyD.gz
GPS Nav Files	.yyN	.yyN.gz
GLONASS Nav File	.yyG	.yyG.gz
Galileo Nav File	.yyL	.yyL.gz
GEO Nav Files	.yyH	.yyH.gz
GEO SBAS Broadcast Files (sep. doc.)	.yyB	.yyB.gz
Met Data Files	.yyM	.yyM.gz
Clock Files (see sep.doc.)	.yyC	.yyC.gz

References for the Hatanaka compression scheme: See e.g.

- <ftp://terras.gsi.go.jp/software>
- IGSMails 1525,1686,1726,1763,1785,4967,4969,4975