

Code: nmea2snr.m

Inputs

NMEA 0183 file

Directory with sp3 orbit files

Basic station parameters

Output directory

Other codes required

datenum2gps.m

gnss2azelv.m

lla2ecef.m

readsp3file.m

Output

'mat' file with variables

snr_data

staxyz

lat

lon

height

Verified?

Uploaded?

Code: invsnr.m

Inputs

Directory with snr data
Basic station parameters
Bspline parameters
Choice of signals, satellite constellations, temporal resolution and other parameters explained in function description

Other codes required

snr2arcs.m
bspline_spectral.m
bspline_spectral_accel.m
bspline_js.m
bspline_jsnorough.m
ecef2lla.m
Directory 'bspline':
<https://www.mathworks.com/matlabcentral/fileexchange/27374-b-splines>
Directory 'fresnel'
glonasswlen.mat

Output

Scaling factors for output
bspline curve
Other output parameters from least squares analysis
Reflector height estimates

Verified?

Uploaded?

Code: `invsnr_plot.m`

Inputs

Dates
Directories with output data
from inverse analysis
B-spline parameters
Tide gauge data

Other codes required

The b-spline directory

Output

Time series of reflector heights
from inverse and spectral
analysis
RMSE, Correlation coefficients

Verified?

Uploaded?