NAME

cme_cal_stacking – Calcualte common-mode error (CME) using regional stacking method.

SYNOPSIS

cme_cal_stacking path
[--opath=OUT_FILTERED_PATH]
[--ofile=OUT_FILE]
[--cmesites=SIT1,SIT2,SIT3,SIT4,SIT5,SIT6,...]
[--cmesitefile=CME_SITE_FILE]

DESCRIPTION

The method in Wdowinksi et al.[1997] and Nikolaidis [2002] is used. The output CME is for the whole network. To handle effectively the spatial variations of CME (e.g. for such large networks as PBO or event global IGS), use **cmc_cal_optimal** program.

OPTIONS

path The input path holding residual GNSS station position time series (in SIO NEU format).

opath Optional. The output filtered time series path. If given, the filtered time series are created.

ofile Optional. The output CME file. If given, the CME time series is written to it; otherwise, CME is written to the standard ouput device (the terminal/screen).

EXAMPLES

Use all sites under ./cmonoc.resid/ to derive CME and output to the terminal.
cme_cal_stacking .cmonoc.resid/

Use all sites under ./cmonoc.resid/ to derive CME and write it to a file.
cme_cal_stacking ./cmonoc.resid/ --ofile=cmes.neu

Use several sites to derive CME and write it to a file, output filtered time series.
cme_cal_stacking ./cmonoc.resid/ --ofile=cmes.neu --cmesites=bjfs,bjyq,jixn,lhaz,wuhn,chan,shao,kunm --opath=cmonoc.resid.flt

Use CME sites in text file to derive CME and write it to a file, output filtered time series.
cme_cal_stacking ./cmonoc.resid/ --ofile=cmes.neu --cmesitefile=for.cme.sit --opath=cmonoc.resid.flt
where for.cme.sit contains:
^_non-blank-first-column lines are comments
bjfs wuhn
lhaz #tian
shao

SEE ALSO

cmc_cal_optimal, iGPSftk