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 Description of the content of the directory:
ftp://geoftp.ibge.gov.br/SIRGAS/Resultados/Combinacao/
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```

The files of this directory are the weekly results, in SINEX (SNX) format, of
combined solutions from results provided by four processing centres:

CIMA: Instituto de Geodésia y Geodinámica de la Faculdad de Ingeniería de la
Universidad Nacional de Cuyo (Argentina)
DGFI: Deutsches Geodätisches Forschungsintitut (Alemanha)
IBGE: Instituto Brasileiro de Geografia e Estatística (Brasil)
IGAC: Instituto Geográfico Agustín Codazzi (Colômbia)

 Each Processing Centre is responsible for the processing of a group of stations that
belong to SIRGAS-CON network.
More information about SIRGAS-CON network is available at www.sirgas.org.

In this directory can be found two types of solutions: loosely constrained weekly
solutions (which can be used for future computations) and constrained weekly
solutions (the solutions is highly constrained to a set of IGS05 stations). The
following identification are adopted for SINEX files:

```
CCCwwwwS.SNX     ==> loosely constrained weekly solutions
CCCyyPwwww.SNX  ==> constrained weekly solutions
 where:
  CCC = identification of the Center of Processing
  wwww = GPS week
  yy = year with 2 digits, p.ex: 2010 = 10
```

Strategy of Combination:
(1) Constraints are removed from the week solutions of each Processing Center, using
free network solution strategy;
(2) The free network solution of each center of processing is aligned to a set of
stations that belong to IGS05 (2000.0)
    Reference network applying the conditions of "no net rotation" and "no net
translation". The IGS05 stations are: BRAZ, CHPI, CONZ, CRO1, GOLD, ISPA, LPGS, MANA,
MDO1, OHI2, PIE1, SANT, SCUB, UNSA and VESL.

(3) The coordinates from step (2) of each processing center, are compared with IGS05
(coordinates propagated to week epoch) and between them to identify possible high
residues. The stations with bigger residues that 10 mm in horizontal components and
20 mm in the vertical component will be analizadas and possibly withdrawals of the
solution. In the case of the exclusion of some station the stages (1) and (2) will be
repeated aiming at the refinement of the final solution and consequently of the
estimate of the variance factor.
(4) matrix covariância of each solution is scaled by the factor of variance or factor
of scale.
(5) the normal equations of each solution are combined to produce the loosely
constrained weekly solution applying the weight of 1 meter in all the stations
(OUTPUT: IBGwwwwS.SNX).
(6) (6) The normal equations of each solution are combined to produce the constrained
solution (CCCyyPWWWW.SNX) applying a weight of 1E-04 meters for IGS05 stations
mentioned in step (2) (OUTPUT: IBGyyPwwww.SNX).