

NRCan Velocity Fields for SNARF

SNARF Workshop 7



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Natural Resources
Canada

Ressources naturelles
Canada

Canada



Outline

New NAREF & CBN solutions

IGS05 & Absolute PCV

Questions about SNARF





New NAREF & CBN Solutions

NAREF Reprocessing

- Reprocessed GSD weekly Berense solutions with v5
- Recombined weekly NAREF solutions
- Including official weekly PBO solutions
- Will re-compute velocity solution
- Need redundant solutions for CORS sites (SIO to do)

CBN Reprocessing

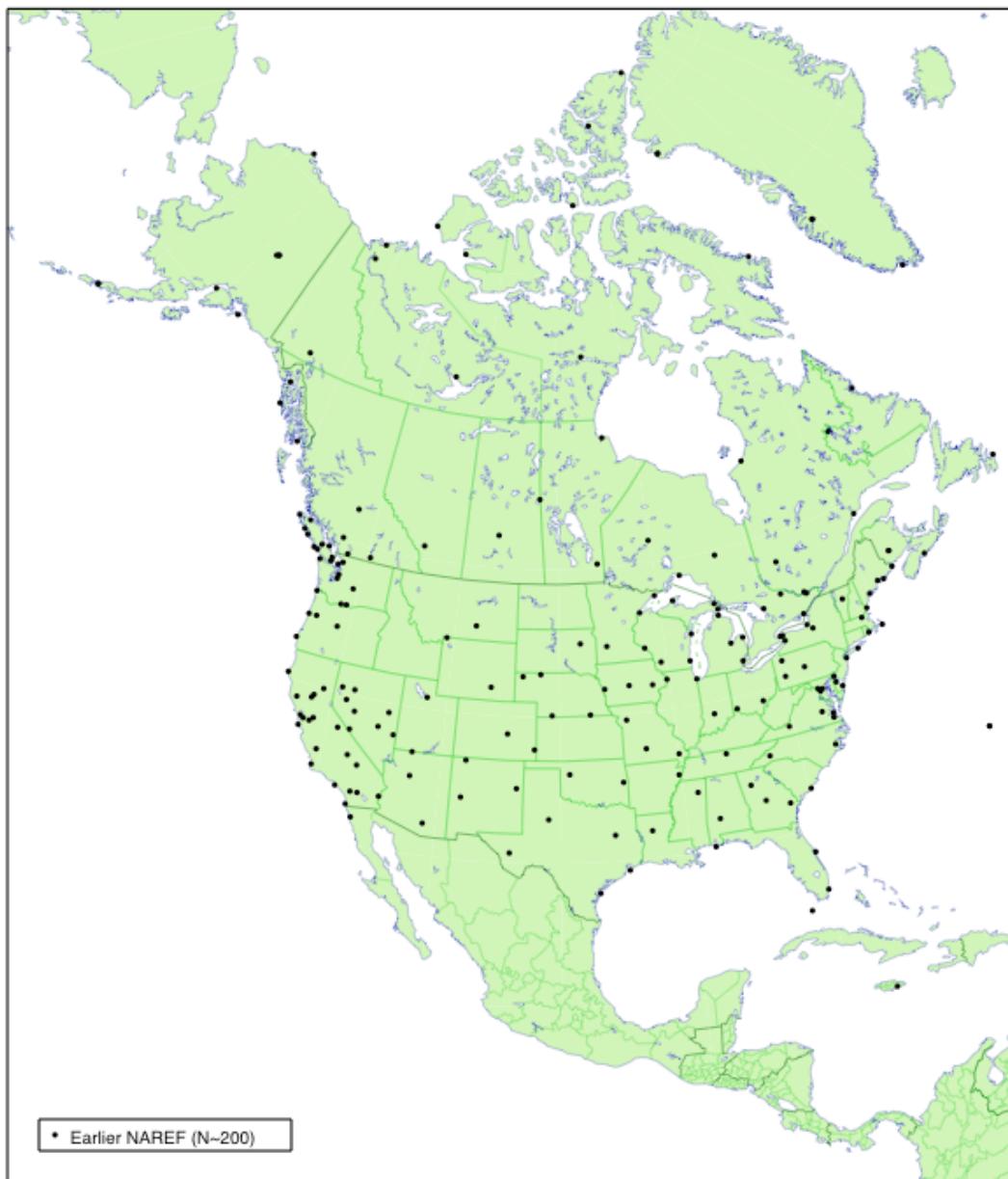
- Will reprocess all epochs with Bernese v5 (later)
- Will include 2005/2006 epochs
- May incorporate with NAREF velocity solution

SIO updating “PBO” weekly solutions

- Add as many other N.A. stations as possible since 2001

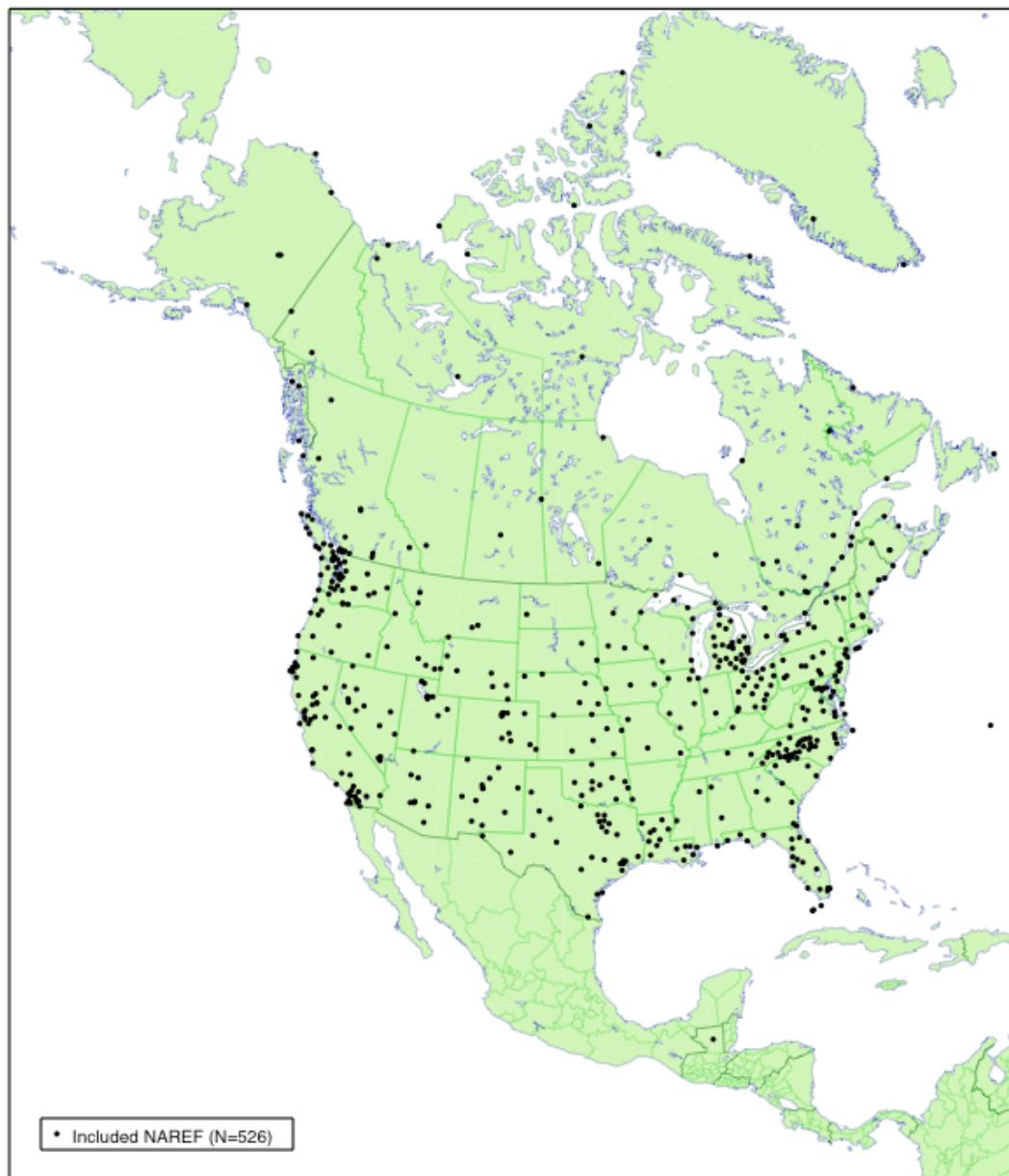


SNARF v1
NAREF

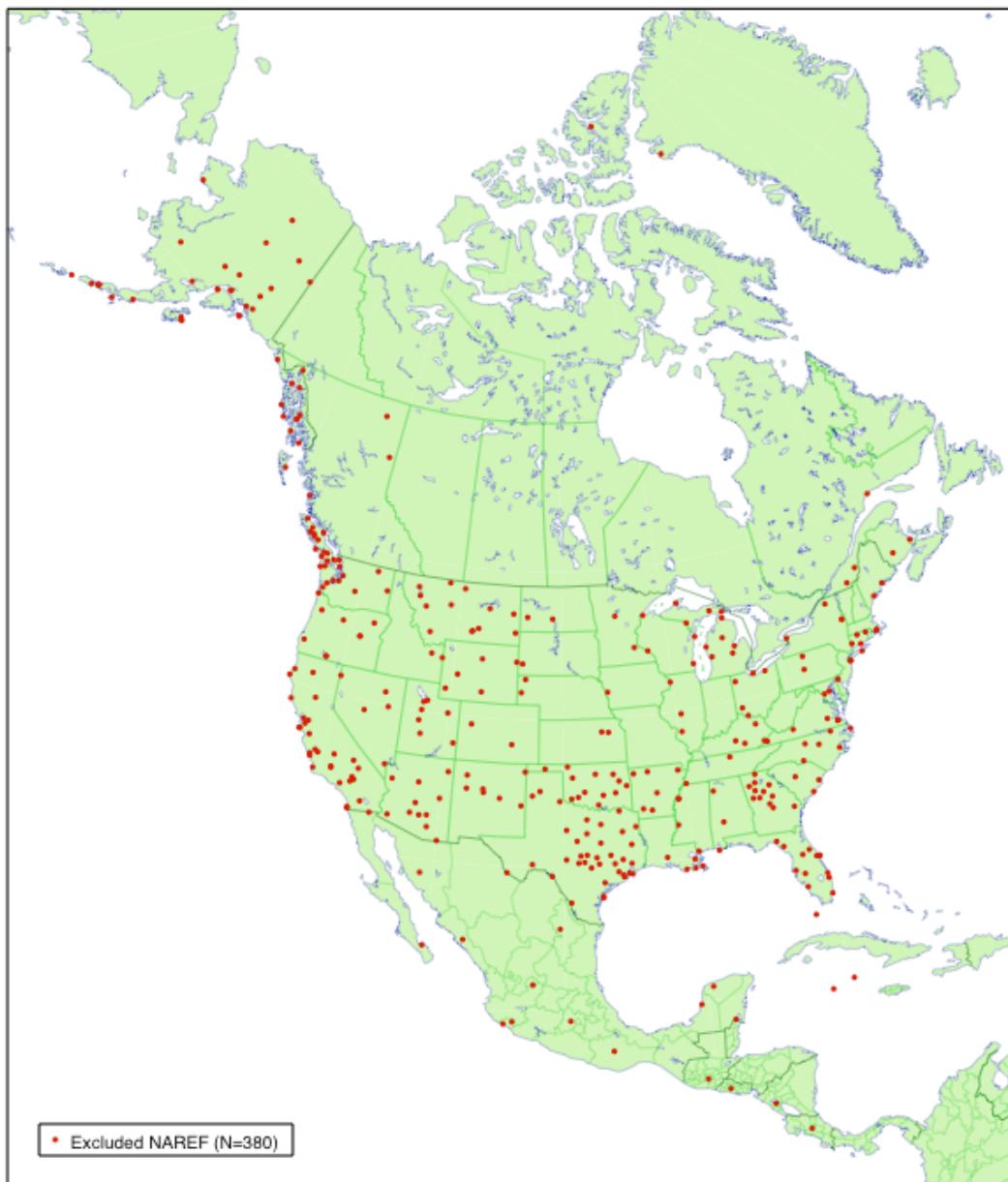


SNARF v2
NAREF

305 wks
906 total sta
380 removed
526 remain



SNARF v2
NAREF
Excluded Sites





IGS05 & Absolute PCV

Need to reprocess all data again!

- Current IGS orbits using absolute PCV & accounting for antenna domes
- Have to wait for reprocessed precise orbits (start mid-2007)
- Include global stations? --> yes
- Will NAREF contributors reprocess their data?
 - GSD yes
 - NGS ?? -> yes
 - MIT ?? -> yes
 - SIO ?? -> yes (a N.A.-wide solution?)
 - PGC Probably -> yes





SNARF Questions

What transformation from ITRF defines SNARF?

- Transformation determined by Jim Davis for the frame?
 - The one that really defines SNARF
- Euler vector determined by Tom Herring?

For SNARF v2

- Use transformation defining SNARF

