Minutes of WInSAR EC meeting 24 June 2019, 10:00-11:00 Mountain Standard Time (Denver, GMT-07:00)

On Call: Kristy Tiampo (Chair), Estelle Chaussard (Vice Chair), David Bekaert (Secretary), Chris Crosby (UNAVCO), William Barnhart, Gareth Funning (ex-officio)

Recap on previous meeting agenda:

1) **WinSAR Website:**
    - The WInSAR website is outdated and not easily browsable. UNAVCO has been focussing on the back-end services, while the website has been neglected. Hopefully becomes a focus again soon as not all. Gareth suggested to refresh community for finding the SSARA page which is currently not easily located.

2) **Courses**
    - ❏ GMTSAR course, July 24-26 at Scripps.
        - A spot has opened for someone on the EC to attend. If available send email to Kristy.
    - ❏ ISCE course, August 12-16 at UNAVCO:
        - ISCE course is completely at capacity and a waitlist has been introduced.
        - Piyush has suggested to videotape the webex with the installation for ISCE and make it available online to the broader community.
        - David suggested to provide the community with year-round access to the jupyter notebook in a cloud/server environment. The EC liked the idea of making lecture material accessible to the community. Kristy and Scott will work on getting a road map for key questions, e.g. how to move forward in getting computational support (e.g. write seed proposal), if/how to limit access to a certain number of users, how long should data be stored, etc.

3) **Conferences and meetings**
    - ❏ Sage GAGE meeting for non-specialists:
        - Gareth suggested to avoid processing during this workshop, but notebooks from ISCE course could be useful and should be recommended to participants to try on their own.
    - ❏ WInSAR was not in time to submit for a session on the GSA meeting.
    - ❏ Winsar Session at AGU
        - 3 convenors: Kristy, Franz Meyer, Ann Chen
        - Kristy will send emails to community users for advertising of the session.
    - ❏ CIG workshop in June 10-14, Boulder Colorado.
        - Eric gave a 20-min talk on the CIG workshop in Golden, providing an overview on what InSAR could contribute to the modelling community, and provided an overview of WinSAR (current and going forward). He explained which InSAR data products are available and which will become available in the future. The focus was that you do not need to be

a processing expert to use InSAR for modelling. Participants expressed that navigating how to acquire InSAR data was not clear, and the myriad of satellites and sensors can be overwhelming. There is an opportunity in two years (Eric will be on organizing committee) to address these identified gaps.

- ❏ EGU WInAR course
  - Gareth mentioned typically 2-hour time-slots for courses at EGU. The deadline is September 2019 to reserve two consecutive spaces (~3.5 hours). Kristy is planning on going and has contacted EGU but did not yet hear back.
  - ESA typically well represented at EGU.
- ❏ Other meetings:
  - IGARSS: funds available from WinsAR to send someone.
  - SSA: funds available from WinsAR to send someone
  - Kirsty will put together a list of all upcoming meetings and corresponding deadlines.

4) Developing a capability to store time-series and other publication

- UNAVCO has a research program to look at NSF funded research. It has been Investigating in the creation and storage with easy online access of NSF funded research. E.g. GNSS and InSAR on volcanoes and hazards etc. Two test-cases exist: 1) Diego Melgar, tsunami early warning site, and 2) Kristy Tiampo on volcano early warning using GNSS and InSAR. Part of this work is on collaboration with computer science team at Rutgers on finding out the best practices of storing the dat, how to use the data for processing, data visualization, etc.
- Given these current developments Kristy has concerns it might not be the best time to pursue such a capability development as part of WInSAR at this time. However, InSAR time-series exploitation could be the next step forward. Chris discussed if the need is to provide storage and generate DOI for current research such as IFGS and time-series to be accessible for publications. This is something that could be accomodated, although it is unclear how much community members would be contribute to it.
- Bill suggest to reach outside our community, e.g. modellers such as CIG, which is the audience which takes higher-level products to use as their input.
- UNAVCO has been great at standardizing. Scott defined the some of these guidelines in the past. On item identified as potential bottleneck is the lack of ease in generating a standard product that goes within the archive. Gareth suggests to share packaging script directly with the main InSAR processing and time-series InSAR softwares.
- There is difference between large-scale continent-wide processing versus publication processing being generated and archived. Kristy discussed on exploring what the plans are for ARIA, NASA ASF DAAC etc. The ASF user

meeting working group is in September. Kristy will discuss with Franz and ASF to see what the long-term goals are.

- We could use SAGE meeting breakout session on “time-series InSAR” to see what the community needs are and what their response would be. Kristy suggest to sit together (Bill and Scott) during the SAGE meeting to discuss this internally.

New items:

1) David requested what the limiting factors are in determining the maximum number of participants at courses (Webex, cost, staff).
    - Limiting factor 1, budget: UNAVCO provides course travel support, lodging etc.Scripps meetings are cheap as they use student dorms, Boulder courses are expensive as hotels are being booked. Few potential solutions were discussed:
        - Decrease the need on travel/stipend support an additional course might be added. Eric suggested to check with Colorado school of mines, CIG has workshop there because it is cheaper (Lorraine Hwang <ljhwang@ucdavis.edu>, might be a good contact regarding booking CSM). Other potential options on the East Coast would be to reach out to Conel University (Matt Pritchard and Rowena Lohman) and Penn State (Christelle Wauthier).
        - Increase the online presence or more online course material. Gareth suggested to hold processing clinics “talk to an expert” a.k.a “WinSAR office hours.” NASA also has some online courses/ webinars where people could dial in. Gareth suggest the MATLAB like format with pre-recorded sessions and online support for questions.
    - Limiting factor 2, teachers: Would need to expand our instructor pool to draw from.