Action Items (Tasks) Priority Short Term

1. **How to get involved?**
   - Most important, where can people go to find out how they can help
   - What skills should they be prepared to bring? (make measurements, deploy instruments–logistics and immediacy matters!)
   - Talk to the California Clearinghouse! They can help direct
   - Workshop to train people?
     i. Intro to recon field work logistics (basics for beginners: key gear to bring, supplies, safety, what to think about in different settings (desert vs. urban), field etiquette, etc.)
     ii.
2. **Group interest in on-hands training**
   - What are the new tools, and how to use them: data collection apps, iOS lidar…
   - Ethical guidelines
   - How to interpret insar & OIC products
   - How to post-process your location data for better accuracy (tips/techniques from the GNSS folks?)
   - Drone/UAV protocols, what to have in place beforehand

continued

3. Improve efficiency of science-based interfacing? More formal, less ad hoc
    - Need people in the field and in the office
    - How to share data– geodesists want to share, to whom/how?
    - Still need to coordinate with CA Clearinghouse
    - Can be limited by cell signal, so standardize plan will help
    - Different scientists have different needs– engineers (e.g. liquefaction), geodesists (instrument deployment)
    - Mobile app for SCEC response?
    - Need org chart so people know who to contact
4. Create app/website for science data sharing.
5. Use it during a field exercise.

continued short term

Coordinate science response

- This is a good term, differentiates from emergency response
- SCEC response site does this well!
  - Do we need to make this easier for people to access? (Sounds like no, it's fine; membership requirement can be good if people share personal info like cell number)
- A mobile app would help!
  - must be cross-platform, can be a challenge to develop and maintain
  - website available on any platform, make it more mobile-friendly?
- …
  - …

Other tools to coordinate response, discussion

- MS Teams, USGS uses that; can others use that?
  - yes, need to be approved, good to add in advance
  - reach out to Sue Hough (maybe need this POC on an org chart?) ask SoCal response coordinator
  - Interested parties should give org chart to USGS ahead of time to ensure org leaders are on the Teams chat
  - Communication tech can change with time… Teams might not be the forever plan
- Slack is not accessible for USGS
- Need to identify interagency knowledge from leads in previous events (e.g., Ken Hudnut, Kate Scharer, Mike Oskin, Ben Brooks, Craig Glennie, etc.)

High level priority

- **Identify who wants/needs to be involved– org chart, database of roles/responsibilities who would respond** (regularly revisit names for roles; have redundancy!)

White Papers & Cheat Sheets

- Can be quick references with FAQs, does not need to be full paper
- Higher priority: cheat sheets, easier to generate and portable
- Needs
  - Org charts– everyone should have an updated cheat sheet for this
  - interpreting insar/optical products
  - tips for collecting & post processing iOS lidar
  - CGS database schema & data collection app
- …

Group Leaders (TAG)

We need champions, group leaders! SCEC has roles for task leaders (TAG, technical activity group)

- Need an '**sUAS**' group: Conni De Masi (UNR/NBMG)
- **Org chart** champions
  - USGS, Alex Hatem, +/- Steve DeLong, Keith Knudsen
  - CGS,
  - Needs to be fluid, personnel redundancies, need to update both regularly but also in real time!
  - Note that different versions are needed, public and private
- **Instrumentation** group (seismometers, campaign GPS, creepmeters)
  - Need know available equipment just like we need to know available people
  - interface with emergency funding group?
  - Coordinate equipment requests among field teams (several can ask for the same equipment for a given event)
- **Emergency funding** for equipment/data collection
  - Recent success: quick proposal & funding from NSF, can do pre-planning to streamline this (NSF is great at rapid response, lots of good experience from people)
  - Rapid proposal team? SCEC has experience coordinating this
  - template for proposals?
- …

Coordinating with the public

- Plans for communicating with media need to be coordinated– coherent, consistent messaging is important to minimize confusion and build public trust
- Share science in a friendly, understandable, and compassionate way
  - Social scientists can give tips on this
  - Social media training
  - SCEC often does workshops on public coordination (e.g., Jason Ballman media; Wendy Bohon, social media) (be proactive, try to improve your skills on this)
- Need cross agency coordination, USGS is great at this
  - Action item: improve communicating USGS messaging (talking points) with other agencies, helps with communicating with the public (consistency, understandability, etc.)
  - "Consist voice" is important, that is the value in having distributed talking points (even slight **M** differences cause confusion)
- Org chart, list of who in each group/agency is best suited to talk to media (point the reporters, etc. to those leaders)
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Practice response!

- Tabletop & field based
- USGS semi-yearly
  - various scenarios; one year is offshore coordination with marine geoscientists…
  - sometimes half-day tabletop, or full day field
- **Let's get the ball rolling in June, Landers anniversary??**
  - Even a tabletop is a good starting point (start simple, let it get better every time)
  - Champions: Sue Hough (USGS), Tim Dawson (CGS), Tran Huynh (SCEC)
- Regular response exercises can
  - freshen skills
  - simulate the intensity of a real response
  - serve as reminder to update org charts
- Ideally, strive for regular exercises, can vary scope/details so it is not the same every time

Short term goals recap

- Org charts, everyone wants this! (regularly maintained, and updated on the fly, in the response)
- Team leaders to champion tasks on earlier slides, especially trainings
- Cheat sheets & white papers
- Get response exercises / practices up and running
- Process for knowledge transfer

Benefits of Community-Based Response

- Public communication coordination: consistency of messaging is critical
- Coordinating resources (equipment)
- Duplicating work where it's needed ONLY (not by default)
- Pooling of (limited) resources from several orgs to achieve greater things; Greater efficiency
- Feeling of being part of a team and how it drives motivation
- Need a lot of hands involved in aggregation of data
- More progress in science when people collaborate and share data
- Learning of science happens at multiple time scales; collaborative efforts feed science for a long time
- Leveraging expertise across the community (not limited to a given entity). Big advantage of SCEC. Broad range of expertise
- Broad community can better represent data needs. Sorting to through the data as a community (increasing amount of data) and sorting what data is important for the community as a whole
- Disseminating data can be more efficient (e.g., OpenTopo)

Benefits of Community-Based Response (part deux)

- Benefit of community reviewing data and interpretation - curated datasets that have community buy-in
- SCEC can facilitate data dissemination of data in a more nimble way than gov or private agencies.
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Data issues

- Long term planning for data curation - when is the data hand-off
- Non-CA events have had datasets developed but they may not have been all interpreted or developed into curated products
- In the poll to data users - need to know also who collects what. So needs and what they collect. What they do with the data. Potential barriers or requirements for sharing data with the public
- Finding data hosting sites (CGS/USGS probably needs internal review)
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