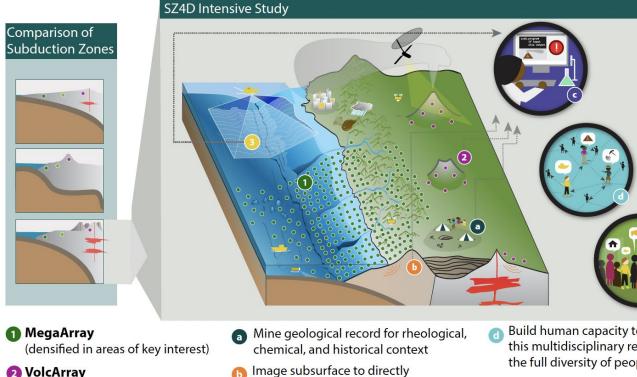
Community Seismic Imaging Experiment offshore Central Chile



determine structures

laboratory data

Build computational models that

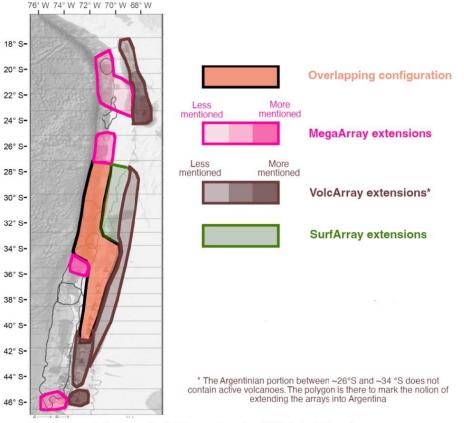
integrate field observations and

2 VolcArray (augmented by rapid-response deployments)

SurfArray

[SZ4D Implementation Plan]

- Build human capacity to perform this multidisciplinary research using the full diversity of people available
- Transform this information into meaningful results that can be immediately utilized by affected communities

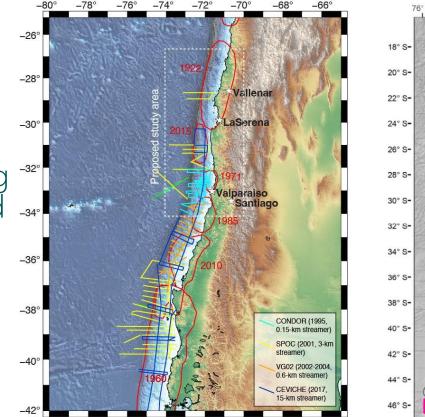


Map showing priority regions for SZ4D arrays from June 2023 AndesNet meeting.

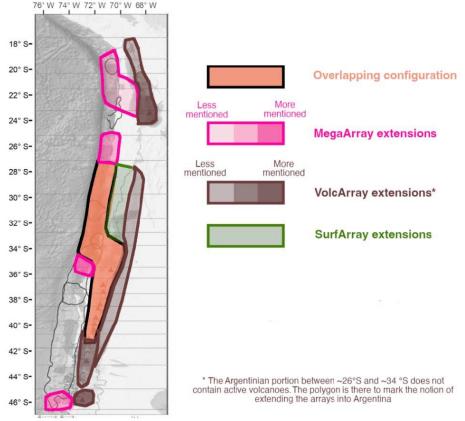
Central Chile is identified as target for SZ4D instrumentation

Community Seismic Imaging Experiment offshore Central Chile

- Central Chile lacks modern seismic imaging
- Most of the existing ^{-32°} data were acquired ^{-34°} with 3 km or shorter streamers ^{-36°} and small sources, ^{-38°} and small sources, ^{-38°} significantly limiting the ^{-40°} imaging capability of deep structure. ^{-42°}



Rupture patches from Lay & Nishenko, 2022. Colored lines show existing active source imaging data.



Map showing priority regions for SZ4D arrays from June 2023 AndesNet meeting.

Virtual Planning Workshop in September 2023

- 81 participants, including scientists from US, Chile, and Europe, with a wide range of expertise.
- Two talk sessions and one discussion session.
- Participants provided useful feedback on imaging targets, survey design, usefulness of this dataset to subduction zone studies in other disciplines.



SZ4D Virtual Workshop Planning a New Seismic Imaging Experiment Offshore Central Chile

September 26, 2023 (8am-11am PDT)

Shuoshuo Han (University of Texas at Austin) Donna Shillington (North Arizona University) Nathan Bangs (University of Texas at Austin) Eduardo Contreras-Reyes (Universidad de Chile)

MANY THANKS to Anaïs Férot for her help!

Moving forward

- We seek to design this program to maximize the usefulness and accessibility of the resulting data and data products to the subduction zone community across disciplines.
- Invite further input from the community and continue to build a PI team
- Submit a proposal in Spring 2024; proposed data acquisition in late 2025/early 2026.



