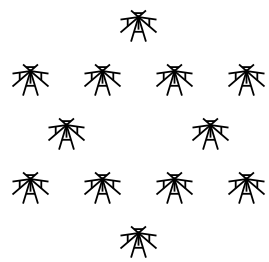
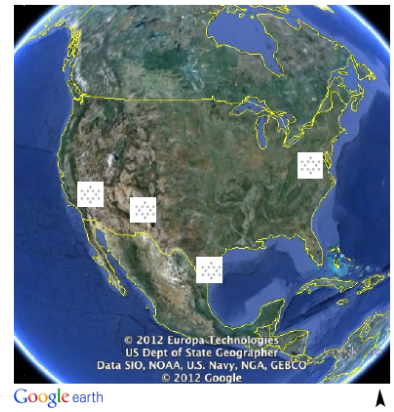
LoFASM: The Low-Frequency All-Sky Monitor

F. Jenet, T. Creighton, R. Price

- 4 stations of 12 LWA-style dipole antennas.
  - ⋆ Port Mansfield TX; Socorro NM (VLA); Green Bank WV; NASA-Goldstone CA





- Student-built and -operated.
- Designed for radio transient searches between 10–88 MHz
  - ⋆ $2500^{\circ\circ}$ beam, 60–500 kJy SEFD $\times(\Delta f \Delta t)^{-1/2}$
  - ⋆ Star arrangement rejects horizon noise (no beam-shaping)
  - ⋆ 4 stations for coincidence/veto
  - ⋆ "Triggered" baseband-sampled coherent mode
- Status: Hardware installed at 3 sites; Goldstone location surveyed
  - ⋆ Data-taking at Port Mansfield station