

# Etcheron Valley Range and Darwin Wash Test Areas

## NAVAIR China Lake

**Etcheron Valley Range (EVR)** provides the open-air ranges necessary to perform testing for both military and civilian systems.

### Range Capabilities

- Radar-cross-section (RCS) ranges (horizontal look-down and low-frequency bistatic)
- Antenna pattern measurements
- Directed energy test sites
- GPS anti-jamming/jamming



### Range Benefits

- Remote location from population centers
- Controlled and secured ground and airspace
- Clean RF spectrum
- Existing infrastructure and heavy support equipment
- On-center technical expertise
- Physical security at variable levels
- Specialized equipment and facilities
  - High-power microwave (HPM)-related
    - Transient High-Output Radiator (THOR), a versatile HPM source (hydrogen spark gap generator)
    - Shielded data acquisition van
    - RF-hardened observation vehicle
    - 100-ton tilt/turntable (operational Winter 03)
    - RF energetics site (Spring 04)
  - RCS-related
    - 2- to 18-GHz RCS measurement facilities
    - 10-degree look-down range with 30-degree tilt table, wet site (both with 10,000-pound turntables), bistatic range-UHF to L band from 30 to 145 degrees
    - Antenna pattern measurements utilize RCS bounce range
    - Classified storage barn
    - On-site machine shop and personnel with "specialized experience"

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**NAV AIR**

**We are committed to keeping pace with rapidly evolving technology, understanding the ever-changing threat, and evaluating and refining the methods for increasing the survivability and protecting the electronic infrastructure of our nation and our military.**