

# SeaGuardian SeaVue Integration Flight Test

## Spectrum Application Information

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# Testing Parameters

- Duration
  - June 2020 – 10 Months
- Location
  - Gray Butte Airfield, Palmdale California
    - 34°33'59"N 117°40'13"W
    - Operational Radius – 40 kilometers
  - Maritime Test Area #1
    - 34°07'00"N 121°39'00"W
    - Operational Radius – 100 kilometers
  - Maritime Test Area #2
    - 33°23'00"N 120°08'00"W
    - Operational Radius – 110 kilometers
  - Maritime Test Area #3
    - 32°36'00"N 118°12'00"W
    - Operational Radius – 90 kilometers
  - Altitude will vary between 3,000 to 24,000 ft

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# Spectrum Request Rationale

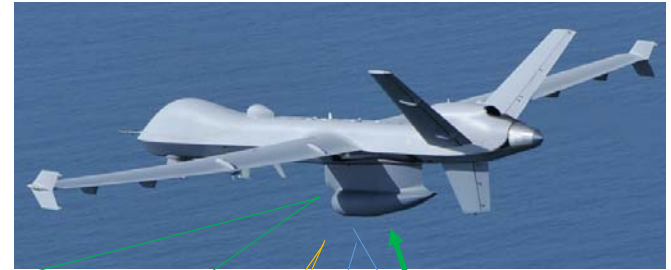
- Reason
  - Testing at Gray Butte and the Maritime Test areas to support demonstrations of the SeaGuardian UAV equipped with the SeaVue radar. These tests are performed on the system following integration and prior to deployment to demonstration sites. The demonstrations for both US and international customers. Spectrum requests for CONUS demonstrations will be made separately from this request as needed. OCONUS demonstrations will be made per the requirements for the demonstration locations.
- Description
  - The SeaVue is a maritime surveillance radar. The testing at the Gray Butte facility is for functional checks of the radar modes after integration on the SeaGuardian UAV. The radar search and inverse Synthetic Aperture (ISAR) modes will be evaluated in its operational environment in the Maritime Test Areas. This testing will include verification of SeaVue functionality with other passive sensors that are part of the overall mission system
- Stop Buzzer
  - Phil Markowitz (760) 885-9014

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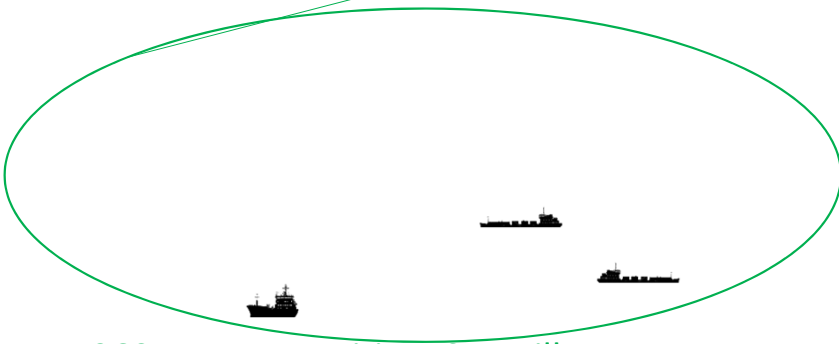
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# SeaGuardian UAV/SeaVue X Band Radar Testing

General Atomics SeaGuardian



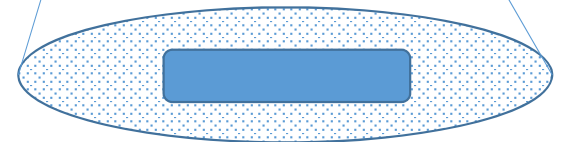
SeaVue Radar



360 Degree Maritime Surveillance



Maritime SAR Imaging



Air to ground SAR Mapping

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Gray Butte Test Area: 32°36"00"N 118°12'00"W



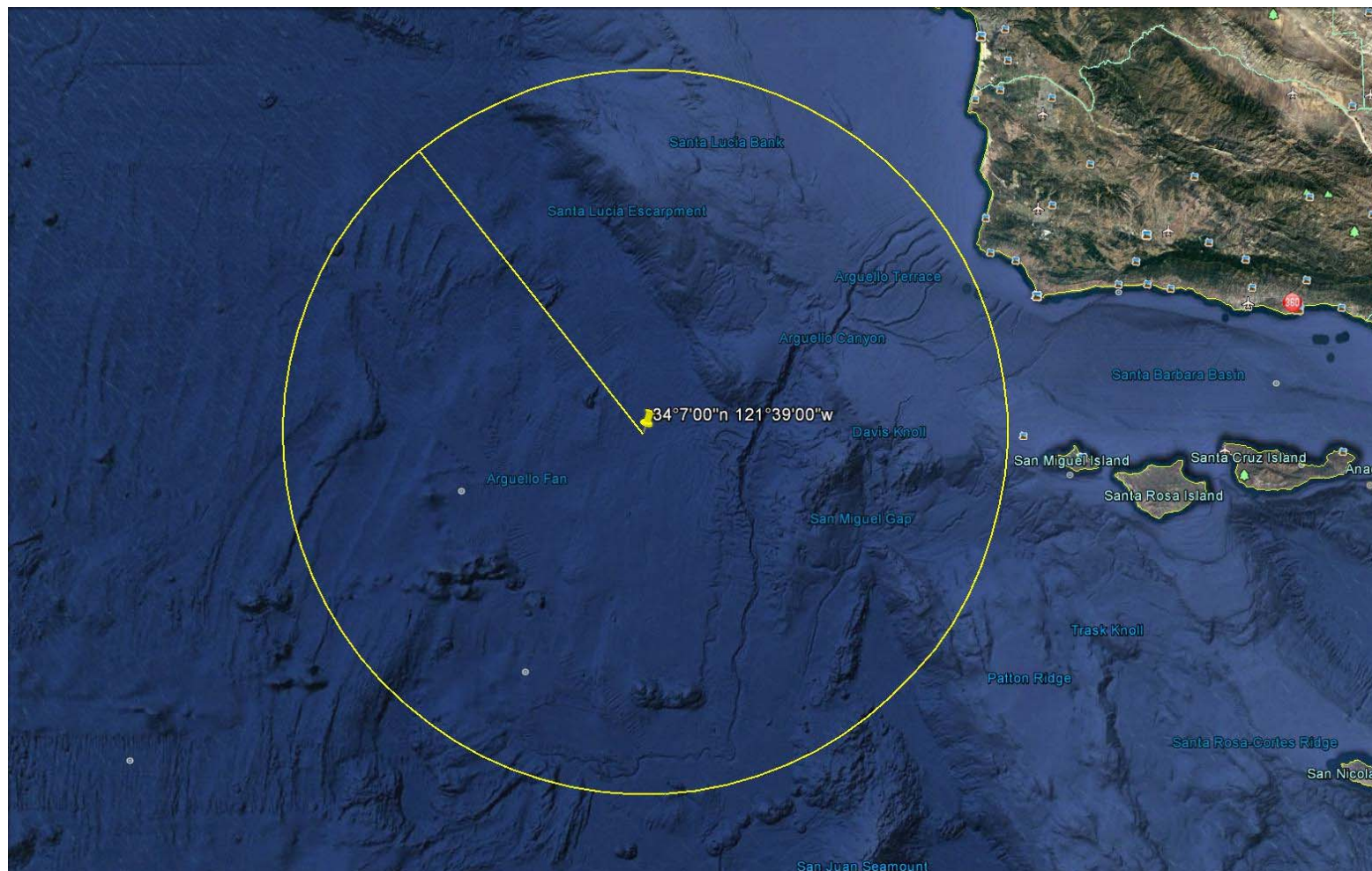
Operating radius = 40 km

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Maritime Test Area: 34°07'00"N 121°39'00"W



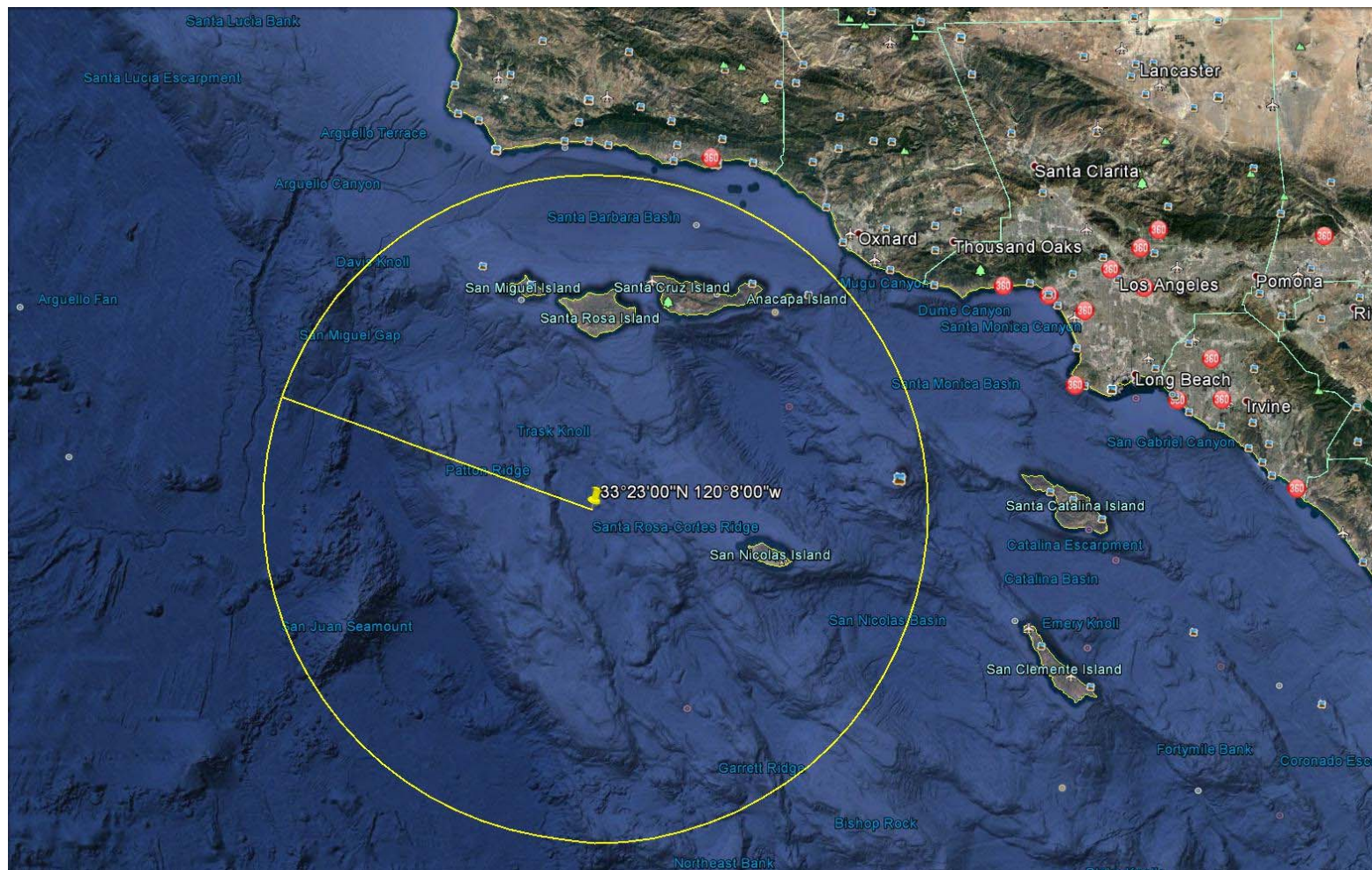
Operating radius = 100 km

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Maritime Test Area: 33°23'00"N 120°08'00"W



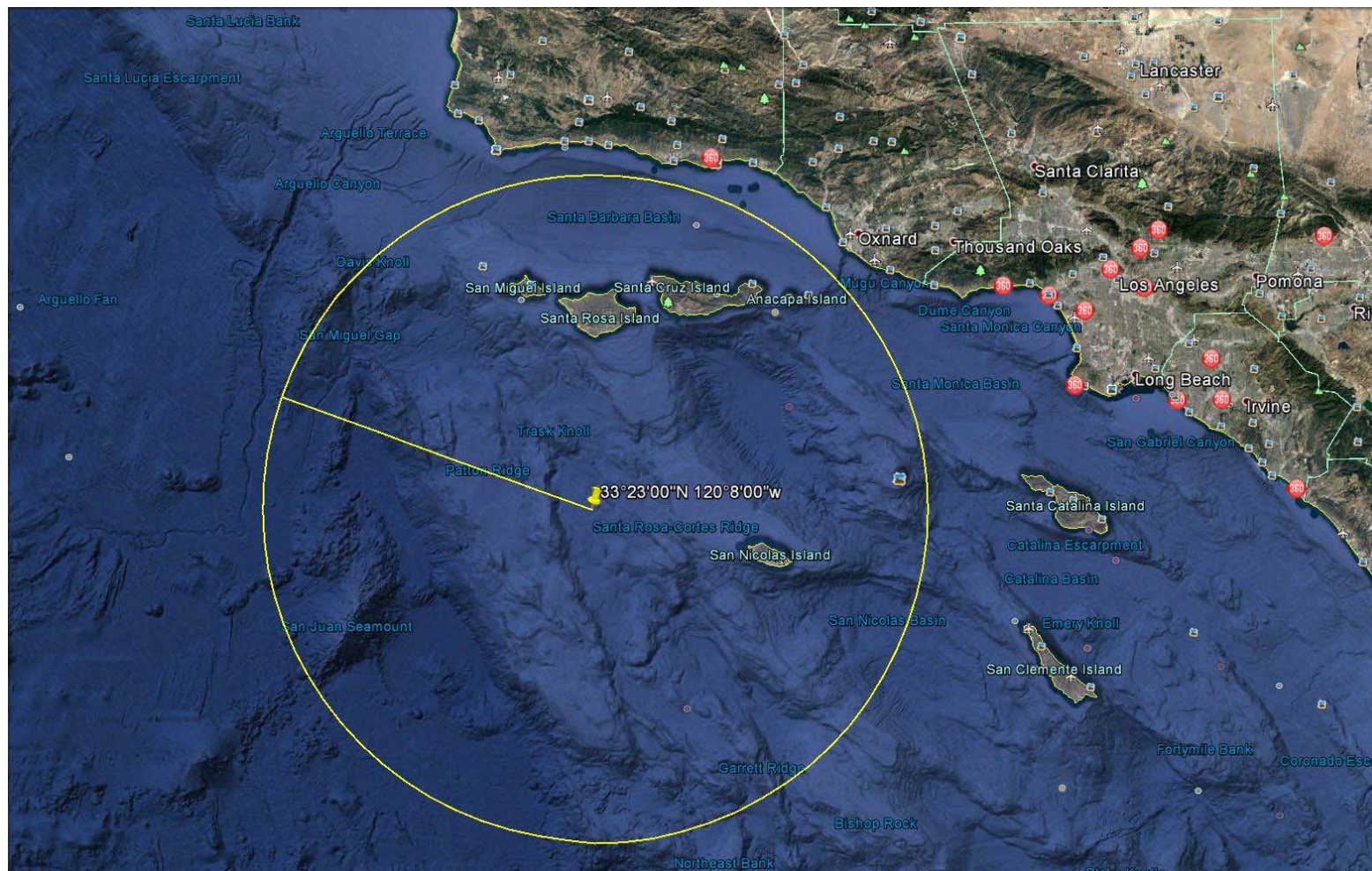
Operating radius = 110 km

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Maritime Test Area: 32°36'00"N 118°12'00"W



Operating radius = 90 km

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