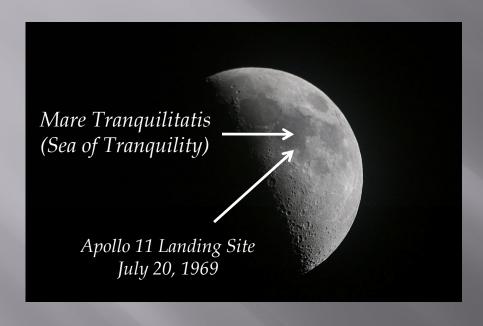
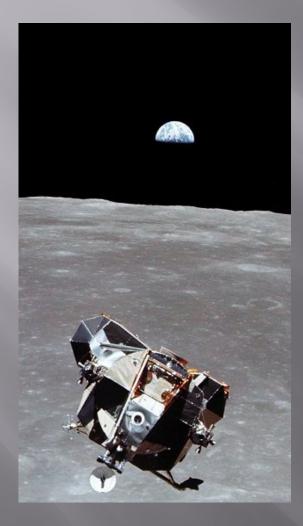


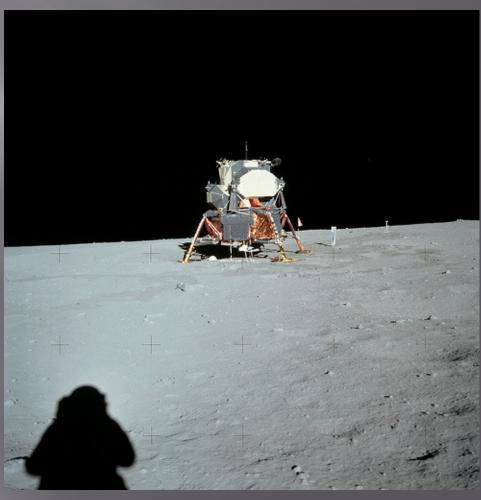
#### An Overview of the Nomination

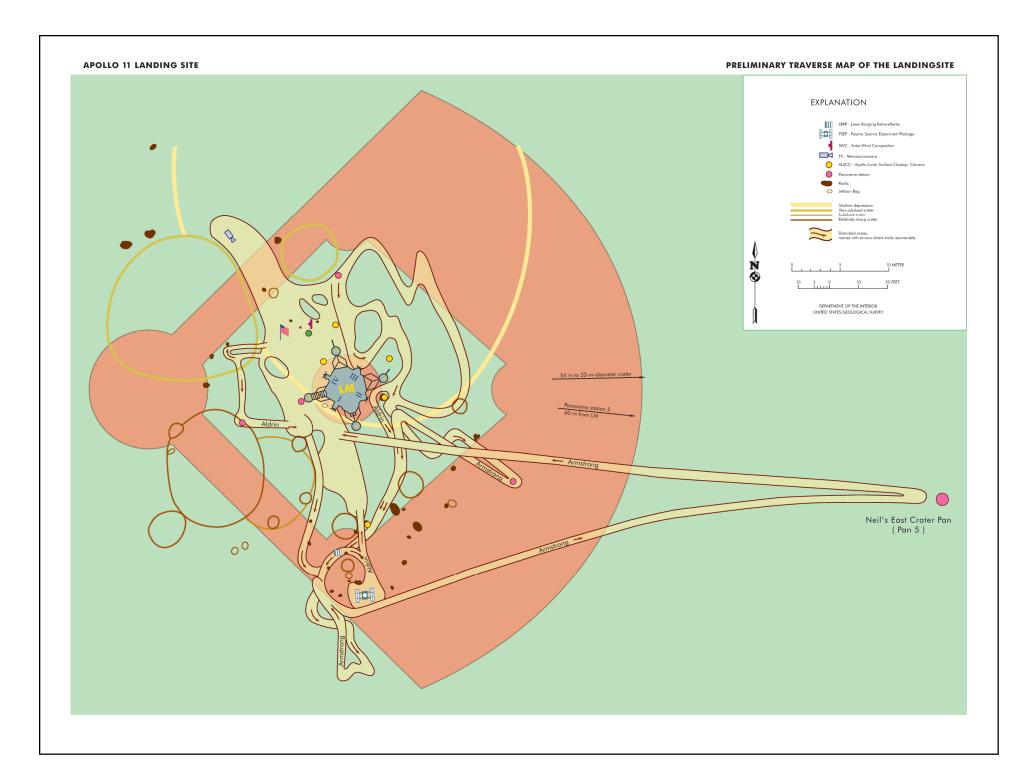


- Overview of Tranquility Base
- Resource Description and Significance
- Why California?
- Can California?
- Why List, Why Now?
  - World Heritage List

# Tranquility Base

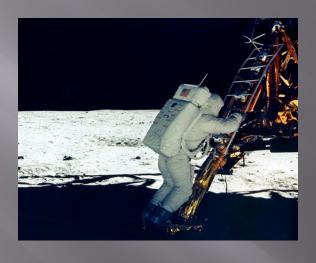






## The Historical Resource









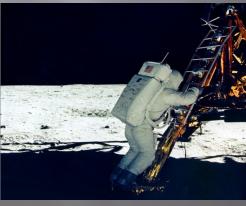




### Five Classifications of Objects

#### LUNAR MODULE





#### **COMMEMORATIVE**

- U.S. 3' x 5' Flag
- Silicon Disc Carrying Statements from Presidents Nixon, Johnson, Kennedy, Eisenhower, and from Leaders of 73
  Other Nations
- □ Commemorative Plaque attached to the Lunar Module Descent Leg. "Here men from the planet Earth first set foot upon the Moon. July 1969, A.D. We came in peace for all mankind." The plaque is signed by the Apollo 11 crew and President Richard M. Nixon



### Five Classifications of Objects

#### **EXPERIMENTAL**

- Laser Ranging Retro-Reflector
- Passive Seismic Experiment
- Solar WindComposition Staff



#### MISSION TOOLS & GEAR

- Space boots and portable life support systems
- Cameras, scales, scoops
- Containers, bags, hammers, capsules

#### WASTE

Wrappers, food bags, and packaging

## Integrity

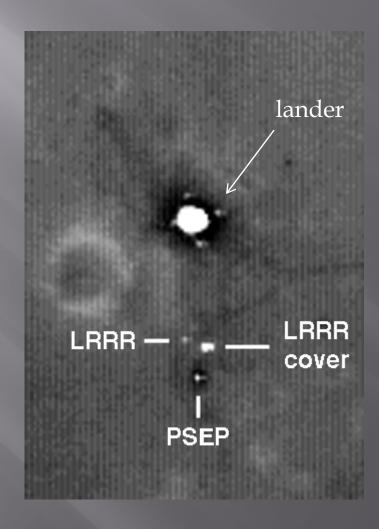


Photo: Recent photo by the Lunar Crater Observation and Sensing Satellite (LCROSS)

### Historical Context

- Associated with one of the most important technological events in human history, within the context of the Cold War
- California contributed significantly to the space program



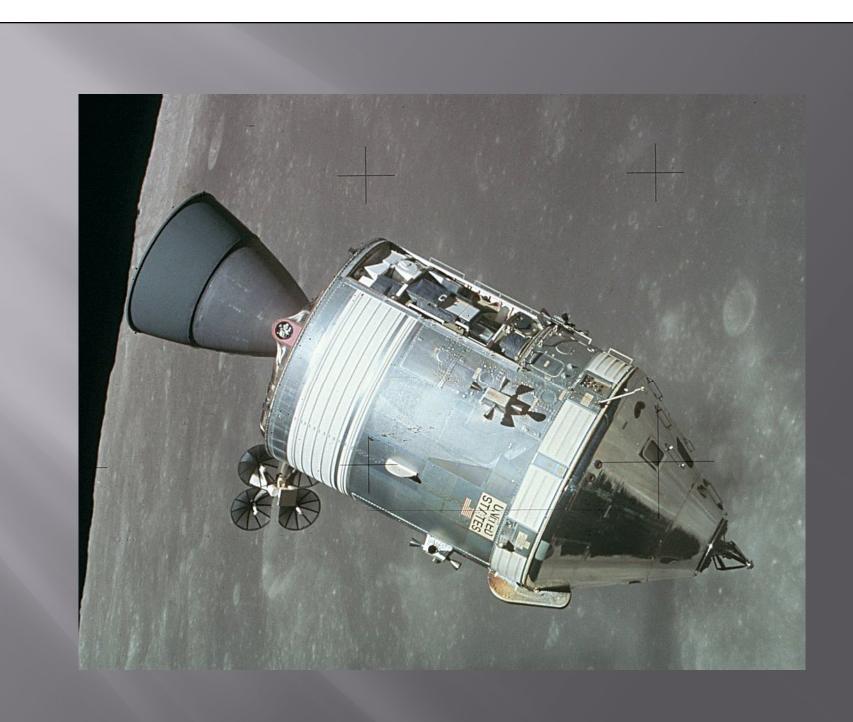


## Why California?

- California Institute of Technology
  - Rocket propulsion research in 1930s
- Jet Propulsion Laboratory
  - R&D of first jet-assisted take-off technology, 1936
  - Missile technology and system engineering required for the Apollo 11 mission
- Dryden Flight Research Center at Edwards AFB
  - High-speed flight station and research in atmospheric flight operations
  - Flight training for astronauts

## Why California?

- Aerojet Engineering Corporation
  - Rocket engine R&D for Gemini, Apollo in 1950s-1960s
- Ames Research Center
  - Research in conductive heating problem for Apollo
- North American Aviation in Downey, CA
  - Constructed the Apollo command module and service module



### CRHR Criteria

- CRHR allows for CA and national importance
- CRHR does not require resource to be in CA
- Satisfies all four significance criteria
  - 1) associated with first human presence somewhere other than Earth, which occurred because of R&D and equipment from CA
  - 2) associated with important persons (Apollo crew), who were trained in CA (Edwards AFB)
  - 3) embodies distinctive engineering/technology (for some objects, only replicas and prototypes exist on Earth)
  - 4) can yield important information about history (early space exploration and site formation processes; some documents/tapes were erased or are missing)

### Can California List?

- Moveable objects can be listed in CRHR (PRC 5020.1
  - Example: The Catalina
- NASA retains ownership of the objects
  - these are not privately owned objects subject to owner consent under 5024.1 (f)(4)
  - Launch Complex 33 at White Sands Missile Range: federally owned and listed on NM register
  - Beaver Island Light Station: federally-owned then listed on MI register, later on NRHP

### Can California List?

- Listing does not take or declare ownership (PRC 5029 [g]
- Listing does not have financial implications for CA
- CEQA is not a factor
- Listing formally memorializes the historical significance of the resource and the event
- Listing provides limited protection until a WHS

## Why List?

- Next: National Historic Landmark listing with mounting support among other SHPOs, legislators, & international community
- Then: UNESCO World Heritage List
  - United Nations Educational, Scientific, and Cultural Organization



Great Wall of China





Pyramids at Giza

First human footprints: Laetoli, E. Africa

## Why List Now?

- Increased interest in returning
- Private-sector or university-based efforts to use robotic scouts to return to the location as early as next year (Lunar X Prize)
- Raising awareness of historic preservation and the importance of site stewardship *now* is critical
- A necessary step to NHL and then WHL

## Why List and Why Now?

Rare opportunity to provide some level of protection and to instill a sense of site stewardship among the public before damage occurs











## Summary

- Tranquility Base is significant to CA and the US and is an Historical Resource
- Listing it does not conflict with state, federal, or international laws or treaties
  - *it does* <u>not</u> *include the lunar surface or subsurface only federally-owned objects*
- Listing it officially acknowledges the historical importance of the resource
- Listing it is a critical first step toward a World Heritage Site listing through UNESCO