



# Smithsonian

*National Air and Space Museum*

## Space Surveillance Fence Program Collection

Allan Janus, 2015; revised by Melissa A. N. Keiser, 2022

2022

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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Space Surveillance Fence Program Collection
<b>Date:</b>	1959-2002
<b>Identifier:</b>	NASM.2014.0048
<b>Extent:</b>	15.11 Cubic feet (13 boxes)
<b>Language:</b>	English .
<b>Summary:</b>	The Navy Space Surveillance System (NavSpaSur) was developed between 1958 and 1964 by the US Naval Research Laboratory (NRL) for the detection and tracking of foreign satellites. Operated by the United States Navy from 1961-2004 and thereafter by the US Air Force until its decommissioning in 2013, the system (known as the Space Fence) had three transmitting sites and six receiving stations across the southern United States. Its radar signals detected active satellites and larger pieces of space debris passing through them at altitudes up to 15,000 miles and helped determine their orbital elements. An improved space surveillance radar on Kwajalein Atoll in the Pacific entered service in 2020.
<b>Digital Content:</b>	<a href="#">Image(s): NASM-9A18805: Naval Space Surveillance System Lake Kickapoo transmitter site at Archer City, Texas; circa 1987.</a>

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## Administrative Information

### Acquisition Information

Christopher Matson, Gift, 2014, 2014.0048

### Processing Information

Arranged and described by Allan Janus, 2015; revised and encoded by Melissa A. N. Keiser, 2022.

### Preferred Citation

Space Surveillance Fence Program Collection, Acc. NASM.2014.0048, National Air and Space Museum, Smithsonian Institution.

### Restrictions

No restrictions on access

### Conditions Governing Use

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## Biographical / Historical

The Navy Space Surveillance System (NavSpaSur) was developed between 1958 and 1964 by the US Naval Research Laboratory (NRL) for the detection and tracking of foreign satellites. Known as the Space Fence, the system began operations in 1959. Operated by the United States Navy from 1961-2004 and thereafter by the US Air Force until its decommissioning in 2013, the system had three transmitting sites and six receiving stations across the southern United States. Its radar signals detected active satellites and larger pieces of space debris passing through them at altitudes up to 15,000 miles and helped determine their orbital elements. Transmitter sites were located at Lake Kickapoo, Texas (Station SK); Gila River, Arizona (Station SG); and Jordan Lake, Alabama (Station SJ). Receiver stations were located at San Diego, California (Station SS); Elephant Butte, New Mexico (Station SE); Red River, Arkansas (Station SR); Silver Lake, Mississippi (Station SM); Hawkinsville, Georgia (Station SH); and at Fort Stewart (Tattnall County), Georgia (Station ST). Data collected at the receiver stations was transmitted to the NAVSPASUR Headquarters and Computation Center at the Naval Surface Weapons Center, Dahlgren, Virginia. Command of the system was transferred to the US Air Force's 20th Space Control Squadron in October 2004. The Air Force Space Surveillance System (AFSSS) was shut down on September 1, 2013. An improved space surveillance radar on Kwajalein Atoll in the Pacific entered service in 2020.

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## Scope and Contents

The Space Surveillance Fence Program Collection consists of 15 cubic feet of photographs of NAVSPASUR personnel, facilities, and stations; many of the photographs are unidentified. Also included in the collection are operational and systems manuals, paper strip charts of radar data, reports and memoranda.

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## Arrangement

This collection has not yet been processed. Material is in the order it was received. Duplicate materials may appear in several different locations within the collection.

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Artificial satellites -- Tracking
- Astronautics, Military
- Cold War
- Electronic surveillance

Names:

- Naval Research Laboratory (U.S.)
- United States. Air Force
- United States. Navy

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