Radar (AN/FPS-6A HF) - NADGE

Denmark

Type: Building (Surface)

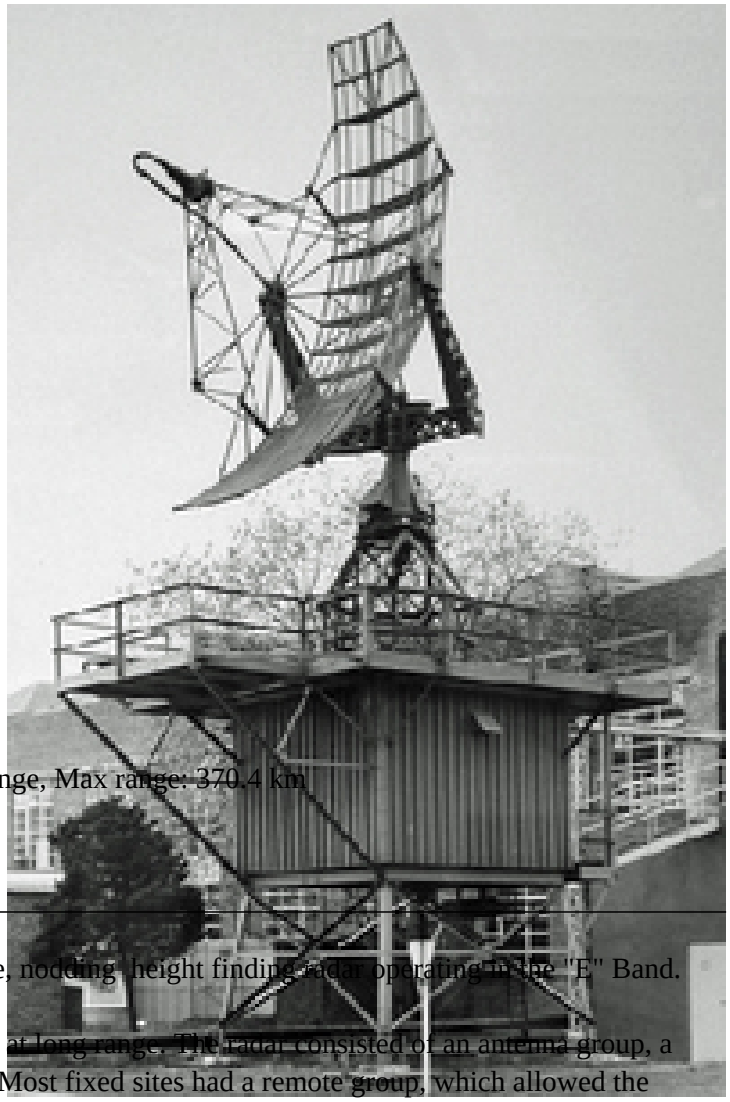
Commissioned: 0

Operator: Air Force

Length: 12 m

Width: 12 m

Crew: 0



Sensors / EW:
 - AN/FPS-6A HF - Radar, Radar, Height-Finder, Long-Range, Max range: 370.4 km

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OVERVIEW: The AN/FPS-6 Radar was a fixed, long-range, nodding, height finding radar operating in the "E" Band.

DETAILS: The AN/FPS-6 was noted for extreme accuracy at long range. The radar consisted of an antenna group, a transmitter group, a receiver group, and an ancillary group. Most fixed sites had a remote group, which allowed the control of the radar from inside the operations center. Also located in operations, was the anti-jam receivers. These receivers were fed with raw video from the tower receiver, and output several types of processed video to enable operators to see through jamming.

Specifications:

Frequency: 2.7-to-2.9 GHz (E Band)
Power output: 3.6 kW(average); 3.5 MW (peak)
PRF: 300-405 Hz
Range Resolution: 300 m (range), unknown degrees azimuth
On/Off time: unknown
Deploy/Stow Time N/A
Max Detection Ranges: 370 km

NOTES: The AN/FPS-6 radar was introduced into service in the late 1950s and served as the principal height-finder radar for the United States for several decades thereafter. It was also used by the Royal Air Force alongside their Type 80 radars. Built by General Electric, the S-band radar operated on a frequency of 2700 to 2900 MHz. Between 1953 and

1960, about 450 units of the AN/FPS-6 and the mobile AN/MPS-14 version were produced. Other user countries include Argentina, Denmark, Germany, Greece, Israel, Spain and Norway. The AN/FPS-90 and AN/FPS-116 radars were identical to the AN/FPS-6 except for receiver modifications.

SOURCES: Wikipedia. "General Electric AN/FPS-6 Radar" Accessed December 2, 2013. http://en.wikipedia.org/wiki/General_Electric_AN/FPS-6_Radar ; Wikipedia. "General Electric AN/FPS-6 Radar" Accessed December 2, 2013. http://en.wikipedia.org/wiki/General_Electric_AN/FPS-6_Radar ; "General ElectricElectric AN/FPS-6 Radar." Wikipedia, the Free Encyclopedia. Accessed March 22, 2015. http://en.wikipedia.org/wiki/General_Electric_AN/FPS-6_Radar ; http://fas.org/nuke/guide/usa/airdef/an-fps-6.htm ; http://www.radartutorial.eu/19.kartei/karte802.en.html