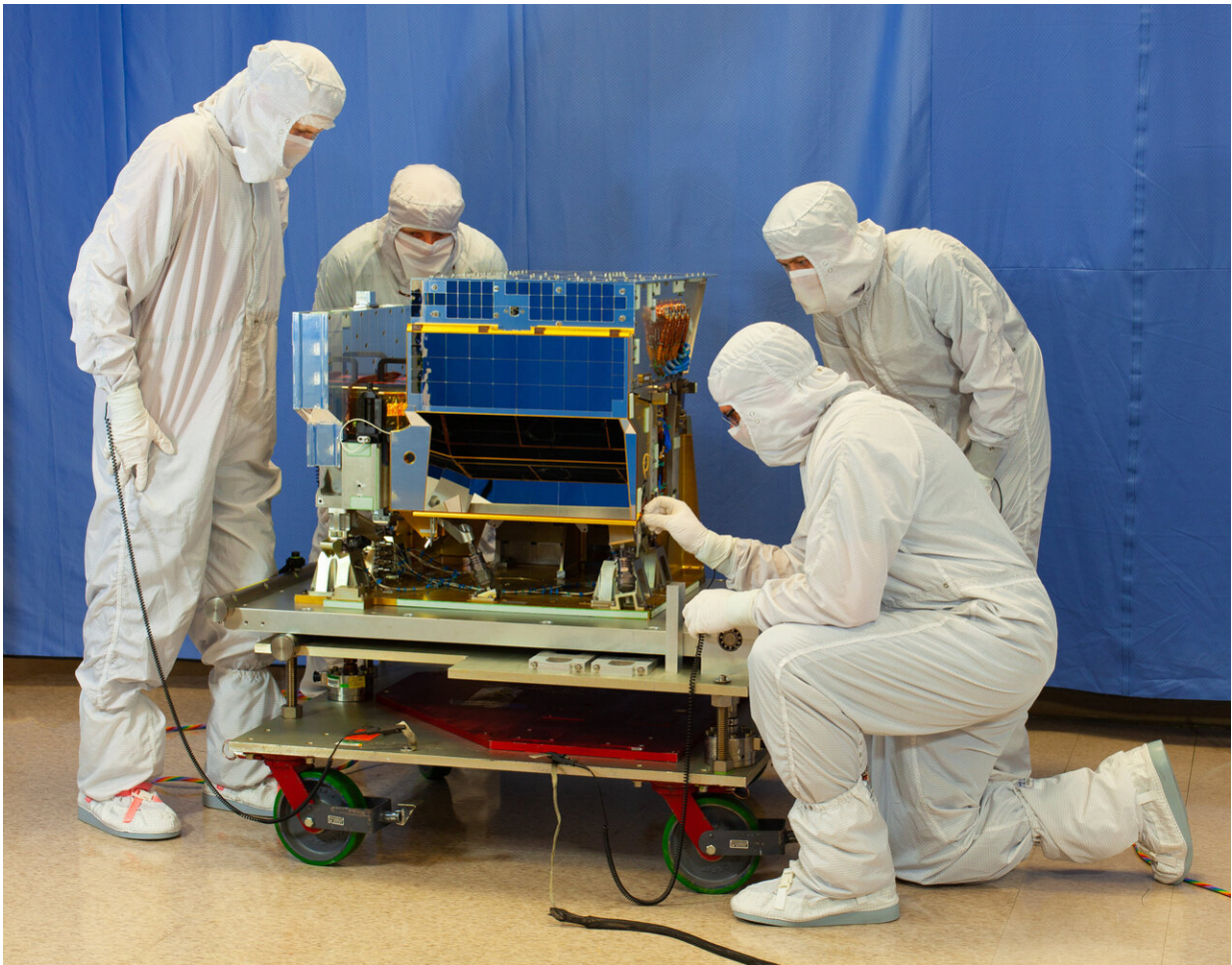


JPSS-2 satellite instrument passes readiness test

May 8 2020, by Jenny Marder



Credit: NASA's Goddard Space Flight Center

The Cross-Track Infrared Sounder (CrIS) instrument built to fly on the

Joint Polar Satellite System (JPSS)-2 satellite is ready to ship to the spacecraft. CrIS has passed all of its readiness tests, completing its pre-ship review. Pre-ship review is the final step before instruments are shipped to and integrated onto the spacecraft. CrIS is the future satellite's final instrument to be ready for spacecraft integration.

The CrIS instrument is an advanced operational sounder that provides more accurate, detailed atmospheric temperature and moisture observations for [weather](#) and climate applications.

CrIS is a key instrument currently flying on the NASA-NOAA Suomi NPP and NOAA-20 (or JPSS-1) satellites, the first two in the Joint Polar Satellite System's series of polar-orbiting satellites. CrIS represents a significant enhancement over NOAA's legacy infrared sounder—the High-Resolution Infrared Radiation Sounder (HIRS).

Data from the JPSS satellites feed daily weather models and tell us about [atmospheric conditions](#) needed to provide extreme weather forecasts several days in advance. CrIS will be among the instruments on the JPSS-2, -3 and -4 [satellite](#) missions.

The CrIS instrument was developed and built by L3Harris Technologies.

The Joint Polar Satellite System (JPSS) is the nation's new generation polar-orbiting operational environmental satellite system. JPSS is a collaborative program between the National Oceanic and Atmospheric Administration (NOAA) and its acquisition agent, National Aeronautics and Space Administration (NASA). This interagency effort is the latest generation of U.S. polar-orbiting, non-geosynchronous environmental satellites.

Provided by NASA's Goddard Space Flight Center

Citation: JPSS-2 satellite instrument passes readiness test (2020, May 8) retrieved 2 May 2024 from <https://phys.org/news/2020-05-jpss-satellite-instrument-readiness.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.