

## Better Data, Improved Forecasts, Ball-built JPSS-1 Successfully Launched

BOULDER, Colo., Nov. 20, 2017 /PRNewswire/ -- NOAA's Joint Polar Satellite System-1 (JPSS-1) successfully launched on Nov. 18 at 1:47 a.m., PST, from Vandenberg Air Force Base, California, aboard a United Launch Alliance Delta II rocket. Ten minutes after launch vehicle separation, the spacecraft successfully deployed its solar array which provides its electrical power, and established communications with mission operators.

Experience the interactive Multichannel News Release here:

<https://www.multivu.com/players/English/79876242-ball-aerospace-joint-polar-satellite-system-jpss-1-launch-recap/>

"JPSS-1 is one of the most advanced environmental systems ever created by government and industry partners – NOAA, NASA, Ball, Harris, Raytheon, Northrop Grumman and United Launch Alliance," said Rob Strain, president, Ball Aerospace. "The information collected from its next-generation suite of instruments will soon deliver advanced data to help protect lives, property and our planet."

JPSS-1, or NOAA-20 as it will be known once it reaches its polar orbit, will join the Ball-built, [Suomi National Polar-orbiting Partnership](#) (Suomi NPP), which has served as NOAA's primary operational satellite for global weather observations since May 2014. Together, the two satellites, each circling the Earth 14 times per day, will provide global observations for U.S. weather and environmental predictions.

The JPSS series of polar-orbiting weather satellites will work as the foundation of NOAA's operational environmental forecasting system for the next 20 years. The JPSS missions are funded by NOAA to provide global environmental data in low-Earth polar orbit. NASA is the acquisition agent for the flight systems, launch services and components of the ground segment.

Ball designed and built the JPSS-1 spacecraft, the [Ozone Mapping and Profiler Suite](#)-Nadir instrument (OMPS-N), integrated all five of the satellite's instruments, performed satellite-level testing and launch support, and will hand over control of the satellite to NOAA 90 days after launch for continued operations. Ball will build the OMPS instruments for NOAA's Follow-On/JPSS-3 and JPSS-4 missions, under a sole source contract modification award from NASA.

Visit [ball.com/aerospace](http://ball.com/aerospace) for more information and interactive downloads. Follow Ball Aerospace on [Facebook](#), [Instagram](#) and [Twitter](#) to tune into the latest JPSS-1 news!

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### **Forward-Looking Statements**

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates," "believes," "targets," "likely" and similar expressions typically identify forward-looking statements, which are generally any statements other than statements of historical fact. Such statements are based on current expectations or views of the future and are subject to risks and uncertainties, which could cause actual results or events to differ materially from those expressed or implied. You should therefore not place undue reliance upon any forward-looking statements and any of such statements should be read in conjunction with, and, qualified in their entirety by, the cautionary statements referenced below. The company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Key factors, risks and uncertainties that could cause actual outcomes and results to be different are summarized in filings with the Securities and Exchange Commission, including Exhibit 99 in our Form 10-K, which are available on our website and at [www.sec.gov](http://www.sec.gov). Additional factors that might affect: a) our packaging segments include product demand fluctuations; availability/cost of raw materials; competitive packaging, pricing and substitution; changes in climate and weather; competitive activity; failure to achieve synergies, productivity improvements or cost reductions; mandatory deposit or other restrictive packaging laws; customer and supplier consolidation, power and supply chain influence; changes in major customer or supplier contracts or a loss of a major customer or supplier; political instability and sanctions; currency controls; and changes in foreign exchange or tax rates; b) our aerospace segment include funding, authorization, availability and returns of government and commercial contracts; and delays, extensions and technical uncertainties affecting segment contracts; c) the company as a whole include those listed plus: changes in senior management; regulatory action or issues including tax, environmental, health and workplace safety, including U.S. FDA and other actions or public concerns affecting products filled in our containers, or chemicals or substances used in raw materials or in the manufacturing process; technological developments and innovations; litigation; strikes; labor cost changes; rates of return on assets of the company's defined benefit retirement plans; pension changes; uncertainties surrounding geopolitical events and governmental policies both in the U.S. and in other countries, including the U.S. government elections, budget, sequestration and debt limit; reduced cash flow; ability to achieve cost-out initiatives and synergies; interest rates affecting our debt; and successful or unsuccessful acquisitions and divestitures, including with respect to the Rexam PLC acquisition and its integration, or the associated divestiture; the effect of the acquisition or the divestiture on our business relationships, operating results and business generally.

SOURCE Ball Aerospace

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