

# NASA checks for damage after possible lightning

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A spider is seen near the space shuttle Atlantis at the Kennedy Space Center Thursday, July 7, 2011, in Cape Canaveral, Fla. Atlantis is scheduled to launch on Friday, July 8 and is the 135th and final space shuttle launch for NASA. (AP Photo/Terry Renna)

Thunderstorms threatened to delay NASA's last space shuttle launch set for Friday with lightning striking near the pad as astronauts descended on Cape Canaveral by the dozens on the eve of the historic flight.

Despite a 70 percent "no-go" forecast, senior managers said they would try for an on-time launch of Atlantis anyway.

NASA test director Jeff Spaulding pointed out that space shuttles have managed to launch with worse forecasts.

"There's some opportunity there," he said Thursday as the rain set in. "It's a really tough day if you make a decision not to go and it turns out to be good weather."

Launch time is 11:26 a.m.

NASA is closing out its 30-year space shuttle program to take aim at asteroids and Mars, destinations favored by the White House. Private companies will take over the job of hauling cargo and crews to the International Space Station, freeing NASA up to focus on points beyond.

"We believe that on behalf of the American people it is time for NASA to do the hard things to go beyond low-Earth orbit," NASA's deputy administrator, Lori Garver, told reporters gathering for the launch.

First, though, is one more shuttle flight.

Late Thursday morning, lightning struck one-third of a mile from the launch pad. No immediate damage was reported, but technicians hurried out to check for any signs of electrical problems. Lightning strikes haven't delayed any shuttle launches in recent years.

The odds of good flying weather improve with each passing day, said shuttle weather officer Kathy Winters. The launch time moves slightly earlier every day, and that helps, she said.

NASA has until Sunday, possibly Monday, to get Atlantis and its four astronauts in orbit. Otherwise, the spacecraft will remain grounded until the following weekend because of an Air Force rocket launch taking priority.

Rain or shine, hundreds of thousands of people are expected to jam the area for the launch. Some estimates put the crowd at close to 1 million. Dozens of astronauts already are in town, including the very first shuttle pilot Robert Crippen, who opened the era aboard Columbia in 1981.

Along one of the main roads leading into Kennedy Space Center, businesses and even churches joined in the celebration with billboards pronouncing "God Bless Atlantis July 8" and "Godspeed Atlantis and Crew."

The countdown, at least, was going well, with only a few minor technical problems at the pad reported.

Atlantis is bound for the International Space Station with a year's worth of provisions. NASA wants the orbiting outpost well-stocked in case there are delays in getting commercial cargo hauls started. The first private sponsored supply run - by Space Exploration Technologies Corp. - is tentatively scheduled for late this year.

NASA payload manager Joe Delai got emotional as he showed pictures of the 21-foot-long, shiny metal cargo carrier in Atlantis' payload bay. That massive bay is the one thing that none of the smaller follow-on craft will have.

"This is just beautiful ... It's not a piece of metal. It's a way of life," he said. "We're just inches into what we know, and everything we do now is what I consider the foundation for human spaceflight.

"Yeah, it's emotional, but it's also part of history. I think that's what you're seeing from a lot of folks down here."

Also aboard Atlantis: multiple sets of patches and pins representing all 135 shuttle missions, as well as thousands of shuttle bookmarks for

children. The patches and pins will be presented to schools following the flight, Delai said.

The 12-day voyage by Atlantis should culminate with a touchdown back at Kennedy on July 20, the 42nd anniversary of man's first steps on the moon.

"There's an old saying that says it's better to travel well than to arrive," Spaulding said. "And I'd have to say after the last 30 years, certainly our program and these shuttles, throughout all of their missions, have traveled very well. And after 135's landing, I think we can say at that point that we've arrived."

**More information:** NASA: <http://1.usa.gov/9JytXV>

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