

## Launch OSIRIS-REx Satellite to Asteroid Bennu

(Photo & Graphics Credits: NASA)



## OSIRIS-REx Asteroid Sample Return Mission

**Rockets:**  
Atlas V, Centaur, SRB  
**Height:**  
189 ft. (15 stories high)  
**Weight:**  
>750,000 lbs.  
**Satellite:**  
about 8x8x10 ft.; 2 tons

See [Launch Videos](#) at:  
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Program Presents...  
*Origins Spectral Interpretation Resource Identification Security - Regolith Explorer (OSIRIS-REx)*

Launch Vehicle  
**Atlas V-411**  
Launch Location  
**Cape Canaveral Air Force Station Florida**  
Launch Date  
**2016**

The Origins Spectral Interpretation Resource Identification Security - Regolith Explorer spacecraft will travel to an asteroid (asteroid 1999 RQ36) and bring at least 0.25 ounces of sample back to Earth for study. The mission will help scientists investigate how planets formed and how life began, as well as improve our understanding of asteroids that could impact Earth.

OSIRIS-REx is scheduled for launch in late 2016. As planned, the spacecraft will reach its asteroid target in 2018 and return a sample to Earth in 2023.

NASA's Goddard Space Flight Center in Greenbelt, Maryland, provides overall mission management, systems engineering and safety and mission assurance for OSIRIS-REx. Dartis Laurita is the mission's principal investigator at the University of Arizona. Lockheed Martin Space Systems in Denver is building the spacecraft. OSIRIS-REx is the first mission in NASA's New Frontiers Program. NASA's Marshall Space Flight Center in Huntsville, Alabama, manages the program for the Agency's Science Mission Directorate in Washington.

Mission Objectives include:

## Included by NASA into Spacecraft

- Introduction (Questions/Responses)
- 3 Creative photos of space from Earth
- My eBook Christmas Nativity story: "A Baby Changes Our World"
- In English and 7 computer-translated languages: Italian, Polish, Spanish, Portuguese, German, and Chinese (T&S)
- Introduction to "7-Dimensional eCommunications"
- A Blessing for NASA and for the success of this mission



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**"A BABY CHANGES OUR WORLD"**  
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- Wikipedia – presents various viewpoints regarding the topics
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## How to Send Your Own Message to Outer Space for Future Generations

- Ever think about writing something for your future descendants?
- What would you say?
- How would you send it in a time capsule to outer space?



## Today there are **2** ways to do this

- **KEO.org** - message of up to 6,000 characters
  - Free service, but now delayed due to finances
  - Engineered to return to Earth in 50,000 years
  - See FAQ – <http://keo.org/uk/pages/faq.html>
  - Go to: <http://keo.org/uk/pages/message.php> to write “Your Message” for future generations
- **The Planetary Society** works with NASA to send names of members and messages/artwork on some missions
  - See: [www.planetary.org](http://www.planetary.org) (Annual Membership Dues)

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