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# Asteroid Retrieval Feasibility Study

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### **Asteroid Retrieval Feasibility Study**

study in 2010 to investigate the feasibility of identifying, robotically capturing, and returning to the International Space Station (ISS), an entire small near-Earth asteroid (NEA) - approximately 2-m diameter with a mass of order 10,000 kg - by 2025 [4]. This NASA study concluded that while

### **Asteroid Retrieval Feasibility Study**

The feasibility of an asteroid retrieval mission hinges on finding an overlap between the smallest NEAs that could be reasonably discovered and characterized and the largest NEAs that could be...

### **(PDF) Asteroid Retrieval Feasibility Study**

Abstract/Description This report describes the results of a study sponsored by the Keck Institute for Space Studies (KISS) to investigate the

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feasibility of identifying, robotically capturing, and returning an entire Near-Earth Asteroid (NEA) to the vicinity of the Earth by the middle of the next decade.

## **"Asteroid Retrieval Feasibility Study" by John Brophy ...**

The feasibility of an asteroid retrieval mission hinges on finding an overlap between the smallest NEAs that could be reasonably discovered and characterized and the largest NEAs that could be...

## **Asteroid Retrieval Feasibility Study - SpaceRef**

This report describes the results of a study sponsored by the Keck Institute for Space Studies (KISS) to investigate the feasibility of identifying, robotically capturing, and returning an entire Near-Earth Asteroid (NEA) to the vicinity of the Earth by the middle of the next decade.

## **"Asteroid Retrieval Feasibility**

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## **Study" by John Brophy**

The in-depth study of the feasibility of asteroid mining was prepared for the Keck Institute for Space Studies (KISS) at the California Institute of Technology in Pasadena. It was released April 2,...

## **Is Asteroid Mining Possible? Study Says Yes | Space**

The Keck study estimated that a robotic spacecraft could drag a 23-foot near-Earth asteroid (NEA) — which would likely weigh about 500 tons — into a high lunar orbit for \$2.6 billion. The returns...

## **Capturing an Asteroid: How NASA Could Do It | Space**

It was based on this report that NASA chartered a three-month study in 2013 with the primary objective of looking at the asteroid retrieval mission concept in sufficient depth to determine if its feasibility would stand up to more detailed scrutiny. The study was conducted from January 2013 through

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## **Near-Earth Asteroid Retrieval Mission (ARM) Study**

The Asteroid Redirect Mission, also known as the Asteroid Retrieval and Utilization mission and the Asteroid Initiative, was a space mission proposed by NASA in 2013. The Asteroid Retrieval Robotic Mission spacecraft would rendezvous with a large near-Earth asteroid and use robotic arms with anchoring grippers to retrieve a 4-meter boulder from the asteroid. The spacecraft would characterize the asteroid and demonstrate at least one planetary defense technique before transporting the boulder to

## **Asteroid Redirect Mission - Wikipedia**

The Asteroid Redirect Mission (ARM) concept brings together the capabilities of the science, technology, and the human exploration communities on a grand challenge combining robotic and human space exploration beyond low

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Earth orbit. This paper addresses the key aspects of this concept and the options studied to assess its technical feasibility. Included are evaluations of the expected number of potential targets, their expected discovery rate, the necessity to adequately characterize

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### **Near-Earth Asteroid Retrieval Mission (ARM) study**

Once you've determined your target asteroid, you can plan to fetch it with the help of the 2012 "Asteroid Retrieval Feasibility Study" by the Keck Institute for Space Studies, which you can download from the following link: [http://www.kiss.caltech.edu/study/asteroid/asteroid\\_final\\_report.pdf](http://www.kiss.caltech.edu/study/asteroid/asteroid_final_report.pdf)

### **Asteroid Retrieval Feasibility Study | The Lyncean Group ...**

Orion's broad exploration capabilities allow for execution of the Asteroid Retrieval Mission with only minor mission kit additions with a feasible

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cost/schedule. There are no significant Orion/SLS requirement changes for the Asteroid Mission.

### **Asteroid Redirect Mission Crewed Mission (ARCM) Concept Study**

An Asteroid Retrieval Mission Study was conducted to investigate the feasibility of finding, characterizing, robotically capturing, and returning an entire Near Earth Asteroid (NEA) to the vicinity of the Earth for scientific investigation, evaluation of its resource potential, determination of its internal structure and other aspects important for planetary defense activities, and to serve as a possible testbed for human operations at an asteroid.

### **STUDY PROGRAMS | Keck Institute for Space Studies**

The KISS study eventually settled on the evaluation of the feasibility of retrieving a 7-m diameter asteroid with a mass of order 500,000 kg. To put this in perspective, the Apollo program

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returned 382 kg of moon rocks in six missions. The OSIRIS-REx mission proposes to return at least 60 grams of surface material from a NEA by 2023.

### **KISS My Asteroid|National Space Society**

A new study sponsored by the Keck Institute for Space Studies (KISS) has concluded that it would be possible to return an asteroid weighing approximately 500 metric tons to high lunar orbit where it would be mined for resources by 2025.

### **New Study Says Asteroid Retrieval and Mining Feasible With ...**

In September 2012, the NASA Institute for Advanced Concepts (NIAC) announced the Robotic Asteroid Prospector project, which will examine and evaluate the feasibility of asteroid mining in terms of means, methods, and systems.

### **Asteroid mining - Wikipedia**



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The Asteroid Retrieval and Utilization mission, excluding any manned missions to an asteroid which it may enable, was the subject of a feasibility study in 2012 by the Keck Institute for Space Studies. The mission cost was estimated by the Glenn Research Center at about \$2.6 billion, of which \$105 million was funded in 2014 to mature the concept.

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