From Wikipedia https://en.wikipedia.org/wiki/7 Iris Creative Commons Attribution-ShareAlike License

Physical characteristics

Surface area

Mean density

Surface gravity

Rotation period

rotation velocity

Temperature

Spectral type

Absolute magnitude (H)

Apparent magnitude

Angular diameter

Volume

240×200×200 km¹³ 225×190×190 km¹⁴ 199.8 ± 10 km (IRAS)^[5] 135 000 km²

4 630 000 km³⁽⁶⁾

0.109 m/s²

0.147 km/s 0.2975 d^[7]

25.4 m/s^[6]

0.277 (geometric) ~171 <u>K</u> max: 275 K (+2°C)

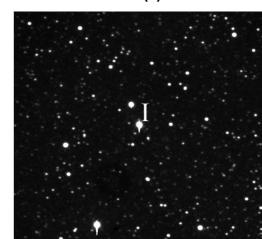
S-type asteroid

6.7^{[8][9]} to 11.4

0.32" to 0.07"

5.51

 $1.62 \pm 0.09 \times 10^{19} \text{kg}^{3}$ $3.21 \pm 0.49 \text{ g/cm}^{33}$



Iris (7)

dynamics also indicates that it should be a contributor of these meteorites. Planetary weathering, so it may be an important and LL chondrites with corrections for space iron-silicates. Its spectrum is similar to that of L mixture nickel-iron metals and magnesium- and the surface is very bright and is probably a bright area in the northern hemisphere. Overall exhibits albedo differences, with possibly a large Iris is an S-type asteroid. Its surface likely has a stony composition. classified as an S-type asteroid, meaning that it brightest object in the asteroid belt. It is Sun between Mars and Jupiter. It is the fourth 7 Iris is a large main-belt asteroid orbiting the

will next do so on November 2, 2054.

significant source of meteorites.

Iris regularly comes within 0.4AU of Mars and

Sun make it the fourth brightest object in the

Iris's bright surface and small distance from the

asteroid belt after Vesta, Ceres, and Pallas.

45e5f96da463 https://gist.github.com/AnnaGerber/e5f897b7

autonomously, using the ultrasonic sensor

• Beep when an obstacle is detected using the

· Display the light reading on the digit display

Display the temperature on the digit display

Here are some ideas for programming your bot:

Welcome to International ModeBots day 2015!

Your challenge is to build a ModeRover to

Use buttons to toggle what is displayed

Program your bot to drive around an area

code samples:

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Rover Build instructions:

to avoid obstacles

ultrasonic sensor

explore the asteroid Iris 7.

