

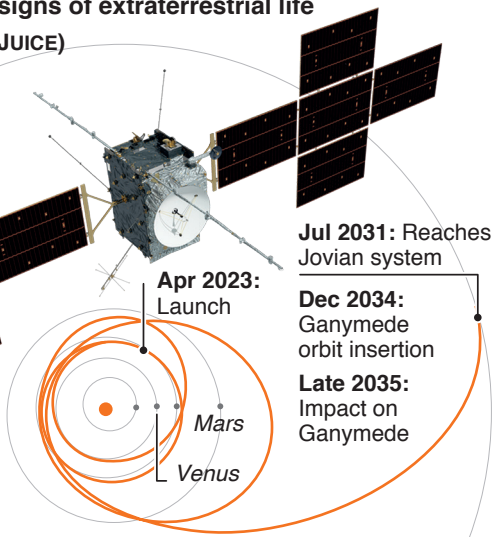
Mission to find life on Jupiter's icy moons

Europe's €1.6 billion voyage into deep space will explore the frozen oceans of Ganymede, Europa and Callisto to hunt for signs of extraterrestrial life

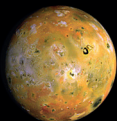
Jupiter Icy Moons Explorer (JUICE)

Ten instruments include high-resolution cameras, spectrometer, laser altimeter and ice-penetrating radar

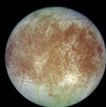
Mission: Six-tonne craft will make three fly-bys of Earth and one of Venus on 6.6bn-km journey lasting more than eight years



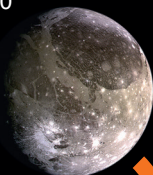
GALILEAN MOONS: Four largest of Jupiter's 95 moons, discovered by *Galileo* in 1610



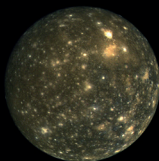
Io
3,640km
diameter



Europa
3,120km



Ganymede
5,262km



Callisto
4,820km



**Earth's
moon**
3,475km

GANYMEDE
Largest moon in solar system, and only moon with own magnetic field

After series of visits to Callisto and Europa, JUICE will enter into permanent orbit around Ganymede in 2034 – first spacecraft to orbit any moon other than our own

Suspected structure

Oxygen atmosphere
Ice crust
Liquid ocean
Rocky mantle
Iron core

