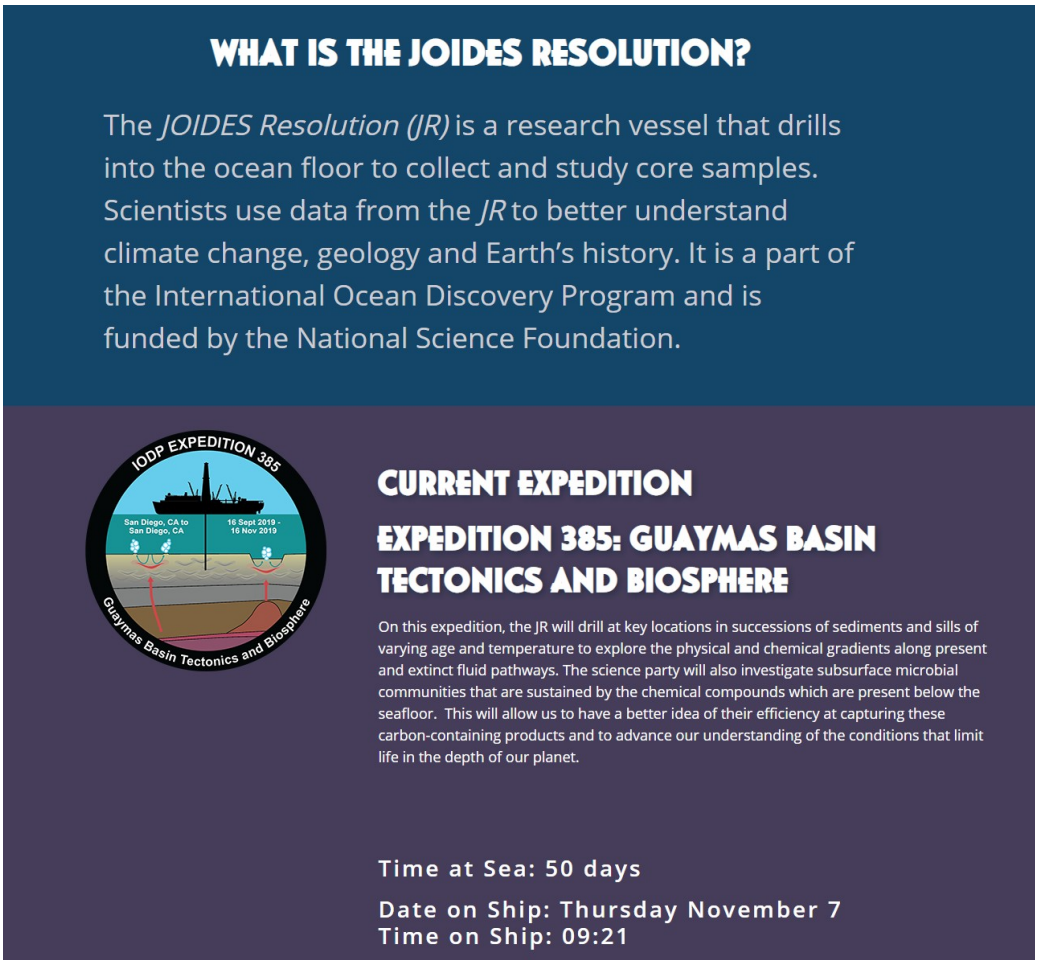
UPDATE: Follow the *Joides Resolution* research ship at sea

In place of our usual new ELI activity this time, we are referring you to websites giving updates on current research into the nature of the Earth. Both websites provide activities or investigations for students. Our notes in “Useful Links” below refer to relevant existing Earthlearningidea activities.

Much of our knowledge of global temperatures in the recent geological past and of the composition of the atmosphere has been derived from the study of cores obtained from the sediments on the sea bed. One of the research shops which has been gathering such data for several decades is the *Joides Resolution,* working as part of the International Ocean Discovery Programme (IODP). The website www.joidesresolution.org enables students to follow the current location and research programme of the ship in real time, and to take part in blogs with members of the ship’s scientific crew.



An extract of the Home page of www.joidesresolution.org

Meanwhile, the Lapworth Museum of the University of Birmingham, UK, has produced a web-based “comic” for younger children, explaining the work of the ship, explaining how the ship’s geoscientists use microfossils from the cores to estimate past climates. Copies may be downloaded from www.mysteriesofthedeep.org

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UPDATE:
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Topic: Web-based resources enabling school students to follow the current work of geoscientists at sea.

Age range of pupils: 11 upwards

Following up the activity: Students could use the Earthlearningidea activities shown below to deepen their understanding of the principles involved in the use of oxygen isotopes to determine past temperatures.

Useful links: Earthlearningidea activities: https://www.earthlearningidea.com/PDF/275_Oxygen_isotopes.pdf

https://www.earthlearningidea.com/PDF/276_Oxygen_isotope_cores.pdf

Source: Websites www.joidesresolution.org and www.mysteriesofthedeep.org (accessed 22nd November 2019), summarised by the Earthlearningidea Team.