

Undertake a

major scientific

research

programme to study the Larsen C Ice Shelf

**Aims** 

of the

## **Follow**

a ground-breaking 45-day expedition to the Weddell Sea, Antarctica with your class from January 2019 to see what discoveries the expedition researchers make expedition

Royal Geographical **Society** 

with IBG

Advancing geography and geographical learning

- Discover more about the Weddell Sea and the expedition's work through videos from its members, online animations and classroom resources
- To follow the expedition, visit www.weddellseaexpedition.org/ and for educational resources visit www.rgs.org/wse

Weddell Sea **Facts** 

> Named after a Scottish sailor, James Weddell

> > It is 2.8 million km<sup>2</sup> in size

> > > The Adélie penguin is the most numerous species of penguin

The Weddell Sea is one of the hardest places in the world to get to because it is covered in sea ice

Weddell seals are impressive divers, they can reach 600m depth and spend as long as 82 minutes underwater

> Weddell seals live farther south than any

other mammal © Pete Bucktrout,

**British Antarctic** 

Survey the rich marine life of the western Weddell Sea ecosystem

Attempt to locate and survey the historic wreck of Sir Ernest Shackleton's ship Endurance

Ice sheet

## **Discover**

why the Weddell Sea is such an extreme environment

> **Aerial** Drone

Sea level

Ice flow **ROVs** 

Remotely

Operated

Ice shelf

**Discover** 

Icebergs

S. A. AGULHAS II

how state of the art technology can access newly exposed water filled cavities beneath the Larsen C ice shelf

> Sediment Corer

- Measure the baseline temperature, salinity and chemistry conditions in the Weddell Sea
- Map seafloor morphology (GIS) and determine the shallow stratigraphy beneath floating ice shelves
- · Learn more about global ocean circulation

## Search

for Sir Ernest Shackleton's **Endurance** wreck

expedition ship Endurance which was crushed by ice and lost in 3,000m deep water a century ago 'Frank Wild looks on

Search for Sir

Ernest Shackleton's

at the wreck of the Endurance' Photograph by Frank Hurley © Royal Geographical Society (with IBG)







Sea bed

Ocean water





