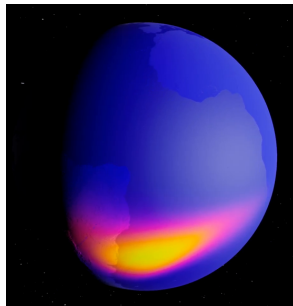
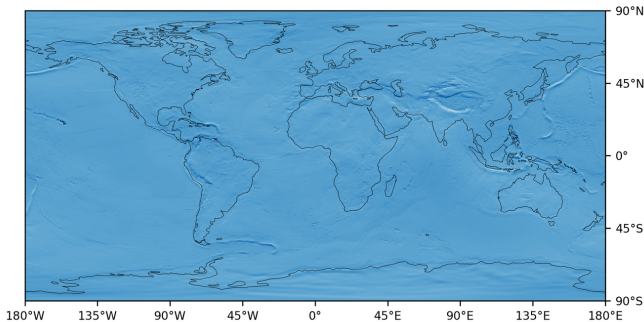


AMENTUM[®]

AEROSPACE

WHAT WE DO

Our web APIs enable on-demand access to scientific modelling software and data streams, reducing integration times from days to minutes. They are used internationally in space operations, aviation, mineral exploration, and research. We also develop bespoke modelling software for our clients, with a focus on ionising radiation and optical phenomena.



GRAVITY AND GEOMAGNETISM

Access the Earth Gravitational Model to calculate geoid height and gravity anomaly (shown above), and the World Magnetic Model for declination, inclination and intensity information.

Applications

- Navigation
- Cavity detection
- Mineral exploration
- Large scale water flow projects

SPACE RADIATION

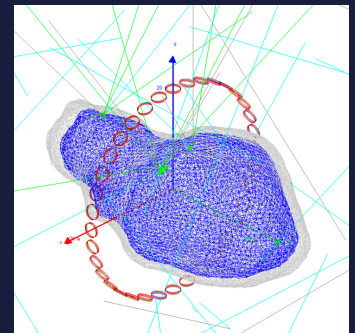
Access the AE9/AP9/SPM model of trapped radiation (as above), or the German Aerospace Center model of Galactic Cosmic Rays. A forecast model of solar energetic particles is coming soon.

Applications

- Predict the radiation hazard for a given mission profile
- Optimise the design of space radiation shielding

CASE STUDY

C-type asteroids have a higher abundance of water, essential for space exploration. Here we simulate the interaction of GCRs with an asteroid model using the Space Radiation API.



We are researching how differences in albedo neutron energy spectra can infer the presence of water (presented at COSPAR 2021).

KEY CUSTOMER

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