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| **SECTION 1** | | | | | | | | | | | |
| Date of Request: | |  | | | | | | **Total metres of core:** | |  | |
| Name: | |  | | | | | | | | | |
| Department: | |  | | | | | | Institute: | |  | |
| Postal Address: | |  | | | | | | | | | |
| Email: | |  | | | | | | | | | |
| Position: | |  | | | | | | | | | |
| Name, affiliation, and email address of project collaborator(s): | |  | | | | | | | | | |
| Name, affiliation, and email address of PhD supervisor (if applicable): | |  | | | | | | | | | |
| SECTION 2 | | | | | | | | | | | |
| Project title: |  | | | | | | | | | | |
| New request or subsequent/continuation of project? | | | | | |  | | | | | |
| Purpose of request \* Please supply a project summary (minimum 200 words), including: i) objective, ii) specific geographic area, iii) methods and procedures, iv) role of collaborating investigators. Analysis requests will NOT be approved without this information, which is required for scientific audit purposes. | | | | | | | | | | | |
| SECTION 3 | | | | | | | | | | | |
| Important additional required information (please complete all sections)  BOSCORF is part of NERC’s National Capability portfolio and is required to report service metrics to NERC annually. Therefore, please provide the following information relating to the research behind your analysis service request. | | | | | | | | | | | |
| Funding mode (select one): | | | | | | | | | | | |
| NERC National Capability: | | |  | NERC Strategic Research: | | | |  | NERC Discovery Science | |  |
| NERC Innovation funding: | | |  | NERC PhD: | | | |  | PhD other: | |  |
| Other funding: | | |  | Pilot Study: | | | |  |  | |  |
| Provide NERC grant number or explain ‘non-NERC funding’ | | | | | | | | | | | |
| Provide NERC grant number: | | |  | | Other: | |  | | | | |
| SECTION 4 | | | | | | | | | | | |
| Using the NERC Scientific Classification system fill out the following:  Scientific Area  Assign % relevance (in multiples of 5) to any areas that are relevant. Otherwise, leave blank. | | | | | | | | | | | |
| Atmospheric: | | |  | Earth: | | | |  | Freshwater: | |  |
| Marine: | | |  | Terrestrial: | | | |  |  | |  |
| Research Area  Identify between one and five research areas that best describe your project and assign percentage relevance totaling 100% | | | | | | | | | | | |
| Palaeobiology: | | |  | Science-based archaeology: | | | |  | Climate and climate change: | |  |
| Palaeoenvironments: | | |  | Earth engineering: | | | |  | Earth resources: | |  |
| Geohazards: | | |  | Glacial and cryospheric systems: | | | |  | Quaternary science: | |  |
| Sediments and sedimentary processes: | | |  | Volcanic processes | | | |  | Biogeochemical cycles: | |  |
| Land - ocean interactions: | | |  | Ocean circulation: | | | |  | Earth surface processes: | |  |
| Soil Science: | | |  | Other (see NERC website for further categories): | | | | | | |  |

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| SECTION 5: | | | | | | | |
| **Sample Information (please give as much detail as possible to assist with the review process)**  **Minimum requirement: Core number and total length OR number of discrete samples** | | | | | | | |
| Cruise | Core No. | Section No. | Archive/Working / u-channel | Length of section | No. of discrete samples | List required analysis types: Core Splitting, MSCL-S, MSCL-XYZ, MSCL-CIS, ITRAX, SCOUTXCAN, VANTA XRF, SEM | Comment on the condition of the split core surface (if applicable) |
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| SECTION 6: | | | | |
| Analysis requirements | | | | |
| Core Splitting | | | | |
| Core diameter: | |  | Total number of metres: |  |
| Imaging of core surface after splitting (yes/no) | |  | Archive only, or Archive and Working half images required? |  |
| Any special requirements/things to consider regarding core splitting: | | | | |
|  | | | | |
| Itrax XRF core scanning | | | | |
| XRF: | |  |  |  |
| Expected time frame of analysis: | |  | Total number of metres: |  |
| XRF scanning resolution: Select fixed step-size value between 200 μm (0.2 mm) and 2500 μm (2.5 mm). | |  | Elements of interest: |  |
| Explanation for chosen scanning resolution: | | | | |
| Vanta XRF core scanning/discrete sample analysis | | | | |
| XRF: | |  | Number of discrete samples: |  |
| Expected time frame of analysis: | |  | Total number of metres: |  |
| XRF scanning resolution:  Select fixed step-size value ≥ 0.5 cm. | |  | Elements of interest: |  |
| Explanation for chosen scanning resolution: | | | | |
| ScoutXcan Radiography core scanning | | | | |
| 2D Radiography: | |  | Laminography: |  |
| Multiple scan orientations (whole core only): | | e.g., 0°, 45°, 90° | Total number of metres |  |
| Scanning resolution: | |  |  |  |
| Explanation for chosen scanning resolution and multiple scan orientations: | | | | |
| MSCL-S | | | | |
| Density: | |  | P-Wave Velocity: |  |
| Resistivity: | |  | Magnetic susceptibility: |  |
| Scanning resolution: | |  | Split or Whole core: |  |
| Expected time frame of analysis: | |  | Total number of metres |  |
| Explanation for chosen scanning resolution: | | | | |
| MSCL-XYZ | | | | |
| Magnetic Susceptibility: | |  | Spectrophotometry: |  |
| Scanning resolution: | |  |  |  |
| Expected time frame of analysis: | |  | Total number of metres |  |
| Explanation for chosen resolution: | | | | |
| HITACHI TM4000 Scanning Electron Microscope | | | | |
| Imaging (Y/N): | |  | EDS Analysis (Y/N): |  |
| Expected time required for the analysis: | |  | | |
| **SECTION 7:** | | | | |
| Any special requirements (e.g. current location of samples and transport arrangements): | | | | |
| Will you be visiting the facility to undertake the analysis?  Yes / No:  Maybe (explain): | | | | |
| **DECLARATION:** | | | | |
| I agree to carefully consider the resolution and total length of sediment core to be analysed and to scan the minimum sample needed for my research. I agree to supply all factual results, and reports, obtained from analyses undertaken at BOSCORF within ....... months of data collection. BOSCORF will agree to hold the data in confidence for a period of ........ months after which they will become part of the BOSCORF database available to other enquirers. I agree to supply BOSCORF with a reprint of any publication resulting from work on its cores, and to make a suitable acknowledgement to BOSCORF in any publication resulting from the study of these samples. A suggested wording is **"The British Ocean Sediment Core Research Facility (BOSCORF) is thanked for supporting core splitting / XRF core scanning / MSCL-S / MSCL-XYZ / MSCL-CIS/ ScoutXcan radiography / SEM data collection".** | | | | |
| **Name:** |  | | | |
| **Signature:** |  | | | |
| **PhD Supervisor Name (if applicable):** |  | | | |
| **PhD Supervisor Signature:** |  | | | |

Note: Analyzed samples that are NOT part of the BOSCORF collection must be collected within 1 month of the completion of the analysis or charges will be incurred to cover shipping costs.

Privacy Statement: The personal data on this form is gathered to provide you with a service. However, to do so, we need your consent. You can withdraw your consent at any time, after which we will delete your details. For further details about how we process your personal data, plus the rights that you have under the law, please see the National Oceanography Centre Privacy Notice (https://noc.ac.uk/about-us/privacy-notice)