| Objective | Setting | Strategy | Platform | Sampler |
|----------------------------------|---|---|------------|---|
| Understand origin of stratal unc | conformities | | | |
| | carbonateplatforms, ramps siliciclastic shelves | grids & transects per acoustic mapping | 1, 2, 3, 4 | subaerial push,hammer, or rotarycore; seafloor vibra core or (under |
| development) seafloor | | | | push / rotary core; |
| Determine timing & magnitudes | geotechnical msrments s of past sealevel changes | | | |
| LateQuaternary | coral reefs (individual coral heads, | grids & transects per acoustic mapping | 1, 2, 3, 4 | narrowkerf wire line diamond coring |
| | stacked reef front, fore-reef) | | | |
| Quaternary | carbonate platforms, ramps incised valleys | global grids &transects per acoustic mapping | 1, 2 | subaerial push, hammer, or rotary core;seafloor vibra core or (under development) seafloor push / rotary core |
| Cenozoic | carbonate ramps prograding siliclastic shelves | global grids & transects per acoustic mapping | 1, 2, 3, 4 | subaerialpush, hammer, or rotary core; (under development) seafloor push / rotary core |
| nalyze land-sea interactions ov | ver the last 125 ka | | | push / totaly core |
| | silled basins, fjords & other high sedimentation rate deposits | global arrays | 1, 2, 3, 4 | subaerial push, hammer, or rotary core;seafloor vibra core or (under development) seafloor push / rotary core |
| Understand tropical climate and | l its variability | | | push / totaly cole |
| | coral reefs (individual coral heads, stacked reef front, fore-reef) | grids & transects per acoustic mapping | 1, 2, 3, 4 | narrow kerf diamond coring wire line |

Shallow WaterDeposits as Recorders and Modifiers of Global Processes

 1. 0 to 5 m water depth

 2. 5 to 30 m water depth

small portablebarge. towed or self-propelled anchored barge withheave compensation or seafloor frame; small jack-up rig.

3. 30 to 75 m water depth
4. > 75 m water depth
Platform for seafloor-based sampler

anchored modest-size ship with heavecompensation or seafloor frame; large jack-up rig. dynamically positioned ship with heavecompensation or seafloor frame; semi-submersible platform. anchored or dynamically positioned ship of intermediate size (crane/A framemust lift 7 tons).