Revised Pioneer Array Mooring Site Locations

Site #	Site Name	Site Center Location	Depth (fathoms)	Mooring Types
1	Upstream-Inshore	40°20.7'N 70°41.0'W	52	**1** moored profiler **2** guard buoys (proposed)
2	Inshore	40°21.0'N 70°47.5'W	52	**1** surface mooring **1** winched profiler **1** guard buoy (proposed)
3	Central-Inshore	40°13.0'N 70°47.5'W	68	**1** moored profiler **2** guard buoys (proposed)
4	Central	40°08.5'N 70°47.5'W	74	**1** surface mooring **1** winched profiler **1** guard buoy (proposed)
5	Central-Offshore	40°04.0'N 70°47.5'W	82	**1** moored profiler **2** guard buoys (proposed)
6	Offshore	39°56.0'N 70°47.5'W	252	**1** surface mooring **1** moored profiler
7	Upstream-Offshore	39°55.1'N 70°41.0'W	252	**1** moored profiler

Mooring Infrastructure Descriptions:

Surface moorings have relatively large buoys with 15-foot towers supporting scientific instrumentation and multiple navigation aids.

Moored profilers have smaller buoys with 6-foot towers supporting telemetry equipment. These smaller telemetry buoys are not as easily visible as the surface moorings. These moorings support wire-following profilers equipped with scientific instrumentation.

Winched profilers have intermittent surface expressions. These moorings support profilers containing scientific instrumentation; the profilers are winched from seafloor to near sea surface and back.

Guard buoys have towers large enough to support multiple navigation aids are proposed as a means to increase the visibility of moored profilers and winched profilers shallower than 250 fathoms. As proposed, guard buoys would be deployed as listed in the above table.