

Global Scale Observatory

Station Papa, North Pacific (HL acoustic)

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO tripllett	Wetlabs ECO Tripllett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Profiler CTD (SeaBird/McLane)	SBE-52MP SeaBird/McLane	\$10,275	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO tripllett	Wetlabs ECO Tripllett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Station Papa, North Pacific subtotal		\$587,333		
CND budgeted amount =		\$650,000		CND_Tbl_12,15

Global Scale Observatory

Irminger Sea, SE Greenland

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Profiler CTD (SeaBird/McLane)	SBE-52MP SeaBird/McLane	\$10,275	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Irminger Sea, SE Greenland subtotal		\$587,333		
CND budgeted amount =		\$650,000		CND_Tbl_12,15

Global Scale Observatory

Southern Ocean, SW of Chile

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Profiler CTD (SeaBird/McLane)	SBE-52MP SeaBird/McLane	\$10,275	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Southern Ocean, SW of Chile subtotal

\$587,333

CND budgeted amount =

\$650,000

CND_Tbl_12,15

Global Scale Observatory

Hawaii sub-surface mooring

Sub-Surface Expression				
Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Acoustic source	TBD	\$250,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$250,000		
Hawaii sub-surface mooring subtotal		\$250,000		
CND budgeted amount =		\$250,000	CND_Tbl_12,15	

Global Scale Observatory

Argentine Basin, South Atlantic

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Profiler CTD (SeaBird/McLane)	SBE-52MP SeaBird/McLane	\$10,275	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Argentine Basin, South Atlantic subtotal **\$587,333**

CND budgeted amount = **\$650,000**

CND_Tbl_12,15

Global Scale Observatory

South Pacific Gyre

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
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Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

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PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

South Pacific Gyre subtotal **\$587,333**

CND budgeted amount = \$650,000

CND_Tbl_12,15

Global Scale Observatory

Mid-Atlantic Ridge

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
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CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$203,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
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Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
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Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Mid-Atlantic Ridge subtotal \$487,333

CND budgeted amount = \$650,000

CND_Tbl_12,15

Global Scale Observatory

Global Instrument Spares

Surface Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Wind Speed/ Direction, Sonic	Vaisala Inc., PN 425	\$1,607	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Relative Humidity - Air Temp.	ASIMET/Star Engineering	\$7,752	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Pressure, Barometric	ASIMET/Star Engineering	\$7,477	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Short-wave	ASIMET/Star Engineering	\$9,103	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Radiometer, Long-wave	ASIMET/Star Engineering	\$11,246	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Precipitation sensor	ASIMET/Star Engineering	\$8,200	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling 600m range	RD Instruments Workhorse Long Ranger	\$57,261	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Glider	TBD	\$93,150	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Acoustic modem (per mooring)	TBD	\$100,000	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$303,408		

Benthic Expression

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
CTD	Seabird SBE 37SM Temp and Salinity with Paro pressure xducer	\$6,487	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Oxygen (optrode)	Aanderaa Instruments OXYGEN OPTRODE 0973830	\$4,687	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current meter, point measurement, 3 Axis acoustic	2ACM-7000 Falmouth Scientific Inc.	\$8,171	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Current Meter, ADCP, profiling, 47 meter range	RD Instruments Workhorse Sentinel	\$31,923	Benthic	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Broadband Seismometer	CMG-1T Garulp	\$178,153	Surface	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$240,003		

Vertical Profiler Instruments (type McLane for cost estimating)

Instrument	Manufacturer, Model	Unit purchase costs	Location	References
Profiler CTD (SeaBird/McLane)	SBE-52MP SeaBird/McLane	\$10,275	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler O2 (Aanderaa/McLane)	AND-OPT Aanderaa/McLane	\$6,900	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Fluorometer/Backscatter, Wetlabs ECO triplett	Wetlabs ECO Triplett	\$10,583	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
PAR sensor	QSP-2150 Biospherical Instruments Inc.	\$1,125	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Turbidity, Nephelometer, C-Star, 6000m	Wetlabs Inc. C-star transmissometer, wavelength 660nm, pathlength 25cm, 6000m housing	\$4,589	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Profiler current meter (FSI/McLane)	FSI-ACM FSI/McLane	\$10,450	Profiler	OOI_CND_Tbl_12,15 also GO_CND_appen_1
Subtotals		\$43,922		

Global Array instrument spares subtotal	\$587,333
CND budgeted amount =	NA

CND_Tbl_12,15