

Mooring Design for CHRP4 - 2017**Deployment date:** 5/23/2017 20:10 UTC**Retrieval date:** 9/27/2017 19:00 UTC**Spar Buoy Latitude:** 41 56.890N**Spar Buoy Longitude:** 81 42.138W**Subsurface Buoy Latitude:** 41 56.863N**Subsurface Buoy Longitude:** 81 42.150W**Notes:**

Spar Buoy Sensors	Water Column Depth (m)	Subsurface Buoy Sensors	Sensor - Serial No.
Surface float	0.0		
	1.0		
	2.0		
	3.0		
	4.0		
	5.0		
	6.0		
	7.0		
	7.5	Subsurface float	
	8.0	DO & Temperature	PME MiniDOT - 624035; Onset HOBO U20L-02 - 20099061
	9.0		
	10.0		
	10.5	Temperature	SeaBird 39 - 5067
	11.0		
	12.0		
	13.0		
	13.3	DO	PME MiniDOT - 272726
	14.0		
	15.0	Temperature	SeaBird 39 - 5186
	16.0		
	17.0		
	17.3	DO	PME MiniDOT - 240475
	18.0		
	19.0	Temperature	SeaBird 39 - 5177
	20.0		
	21.0		
	21.3	DO	PME MiniDOT - 879875
	22.0		
	23.0		
	23.8	DO	PME MiniDOT - 466705
	24.0		
Total Depth	24.3	Total Depth	

Mooring Design for CHRP4 - 2018**Deployment date:** 5/30/2018 17:00 UTC**Retrieval date:** 10/3/2018 17:10 UTC**Spar Buoy Latitude:** 41 56.898N**Spar Buoy Longitude:** 81 42.467W**ADCP Latitude:** 41 56.926N**ADCP Longitude:** 81 42.324W**Subsurface Buoy Latitude:** 41 56.950N**Subsurface Buoy Longitude:** 81 42.323W**Notes:**

Spar Buoy Sensors	Water Column Depth (m)	Subsurface Buoy Sensors	Sensor - Serial No.
Surface float	0.0		
	1.0		
	2.0		
	3.0		
	4.0		
	5.0		
	6.0		
	7.0		
	7.5	Subsurface float	
	8.0	DO	PME MiniDOT - 696947; Wiper - 583189
	9.0		
	10.0		
	10.5	Temperature	SeaBird 39 - 5179
	11.0		
	12.0		
	13.0		
	13.3	DO	PME MiniDOT - 536818; Wiper - 592630
	14.0		
	15.0	Temperature	SeaBird 39 - 5189
	16.0		
	17.0		
	17.3	DO	Sensor lost
	18.0		
	19.0	Temperature	SeaBird 39 - 5067
	20.0		
	21.0		
	21.3	DO	PME MiniDOT - 241813; Wiper - 166536
	22.0		
	23.0		
	23.8	DO & Temperature	PME MiniDOT-624035; Wiper-629326; Onset HOBO-20099061
	24.0	ADCP	Nortek AWAC 1000 kHz - 6001
Total Depth	24.3	Total Depth	

Mooring Design for CHRP4 - 2019

Deployment date: 5/21/2019 21:00 UTC
Retrieval date: 10/10/2019 15:00 UTC
Spar Buoy Latitude: 41 59.242N
Spar Buoy Longitude: 81 35.827W
ADCP Latitude: 41 59.2440N
ADCP Longitude: 81 35.8150W
Subsurface Buoy Latitude: 41 59.246N
Subsurface Buoy Longitude: 81 35.803W

Notes: Location moved from the 2017 and 2018 target location. The previous location was too close to the shipping channel. USCG required mooring to be moved during permitting process.

Spar Buoy Sensors	Water Column Depth (m)	Subsurface Buoy Sensors	Sensor - Serial No.
Surface float	0.0		
	1.0		
	2.0		
	3.0		
	4.0		
	5.0		
	6.0		
	7.0		
	7.5	Subsurface float	
	8.0	DO	PME MiniDOT - 272726; Wiper - 397879
	9.0	Temperature	SeaBird 56 - 1714
	10.0		
	10.5	Temperature	SeaBird 56 - 1695
	11.0		
	12.0	Temperature	SeaBird 56 - 6897
	13.0		
	13.3	DO	PME MiniDOT - 810739; Wiper - 198458
	14.0		
	15.0	Temperature	SeaBird 56 - 8548
	16.0	Temperature	SeaBird 56 - 8543
	17.0		
	17.3	DO	PME MiniDOT - 707827; Wiper - 769562
	18.0		
	19.0	Temperature	SeaBird 56 - 8538
	20.0	Temperature	SeaBird 56 - 1652
	21.0		
	21.3	DO	PME MiniDOT - 620161; Wiper - 674439
	22.0	Temperature	SeaBird 56 - 1696
	23.0		
	23.8	DO	PME MiniDOT-617916; Wiper-907282
	24.0		
	24.2	ADCP	Nortek AWAC 1000 kHz - 6001
Total Depth	24.3	Total Depth	