

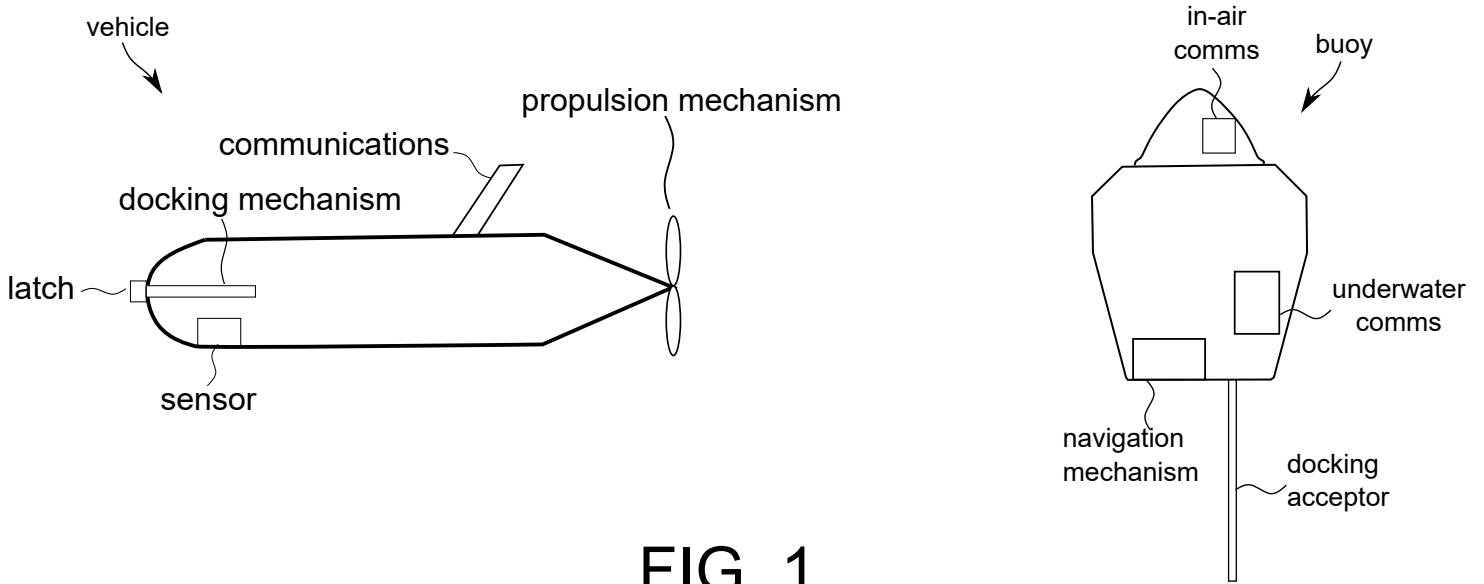


FIG. 1

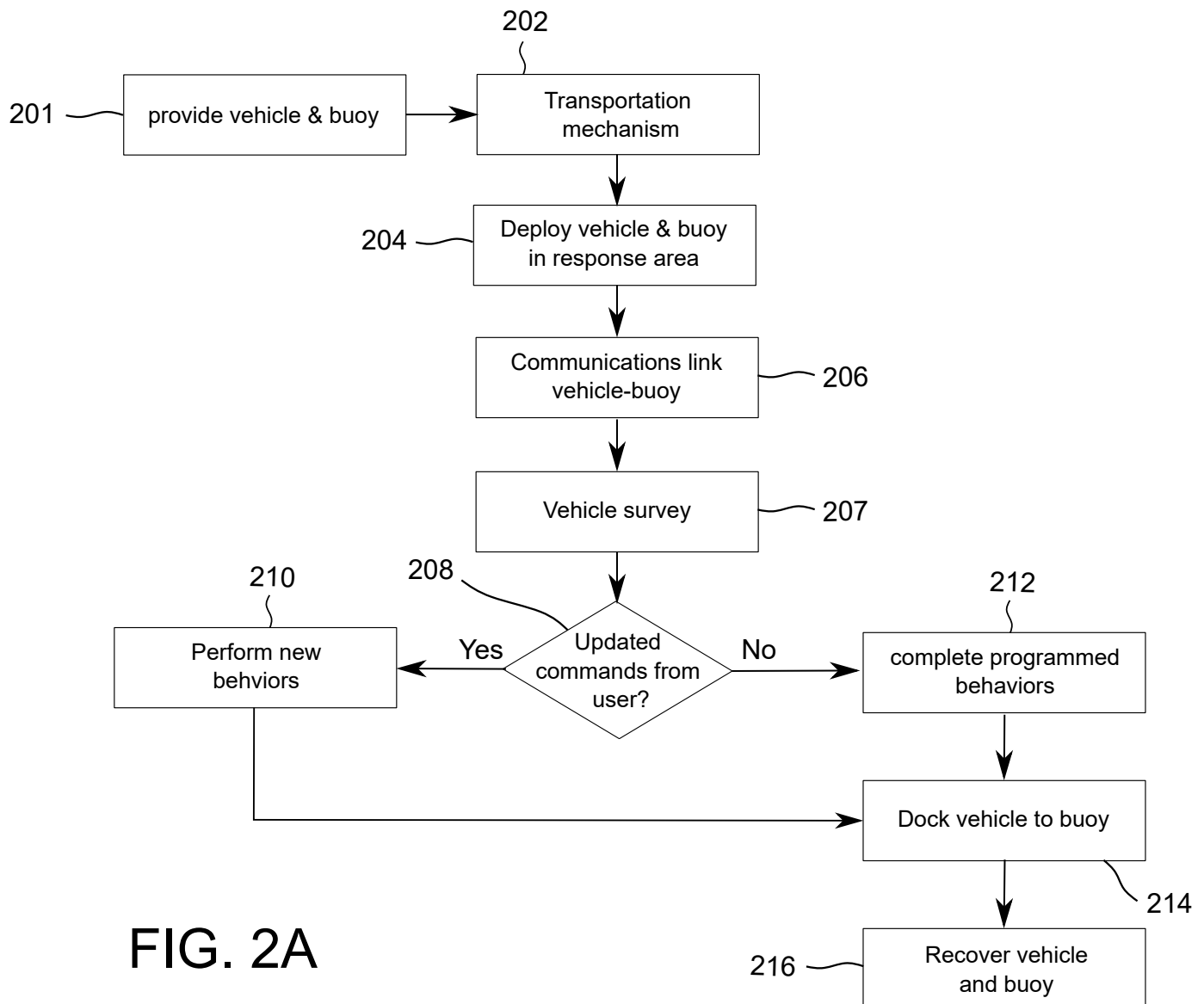


FIG. 2A

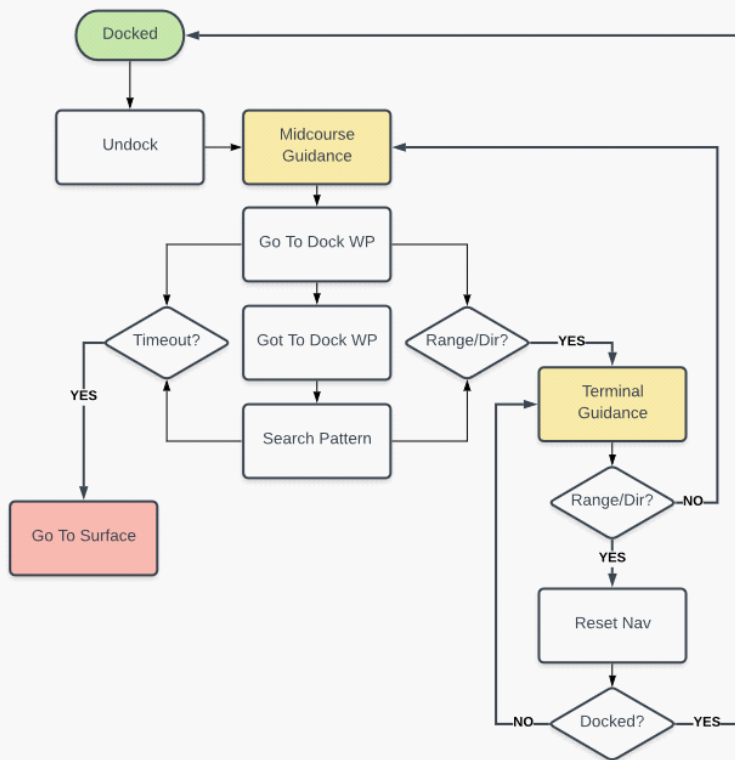


FIG. 2B



FIG. 3A

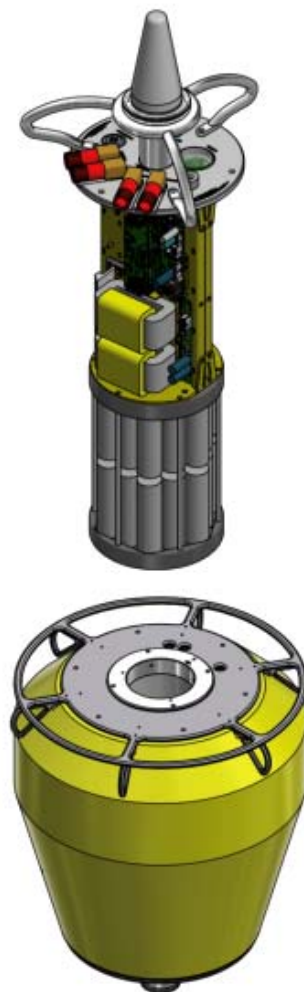


FIG. 3B

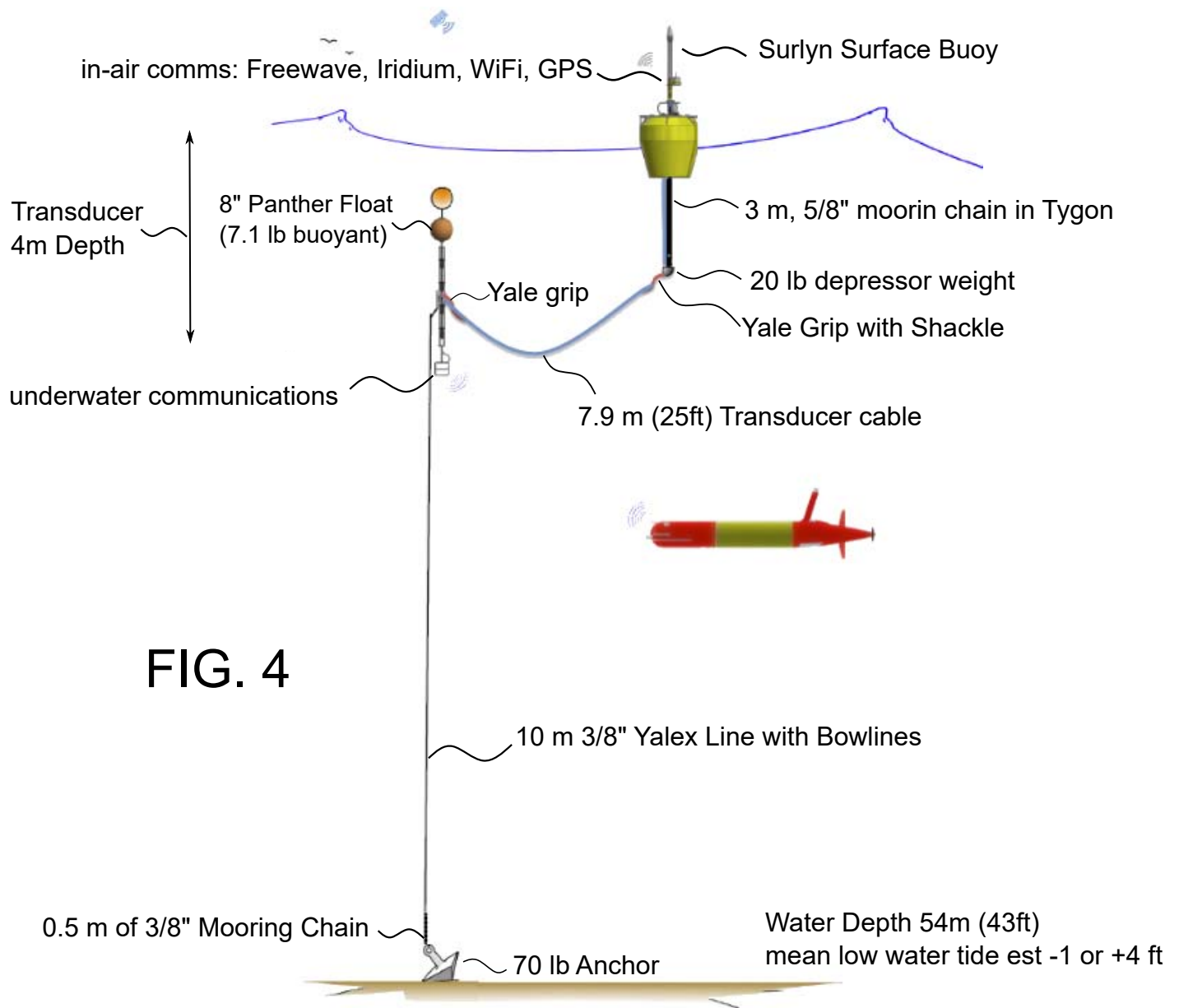


FIG. 4



FIG. 5A

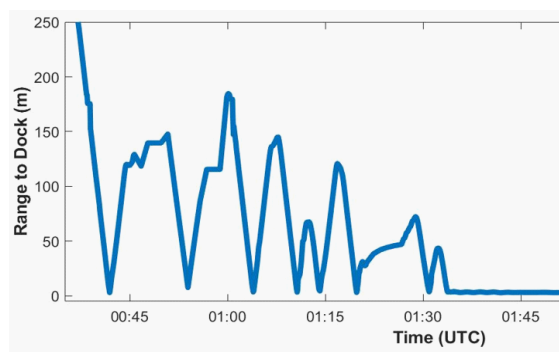


FIG. 5B

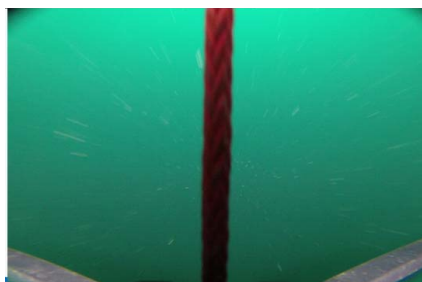
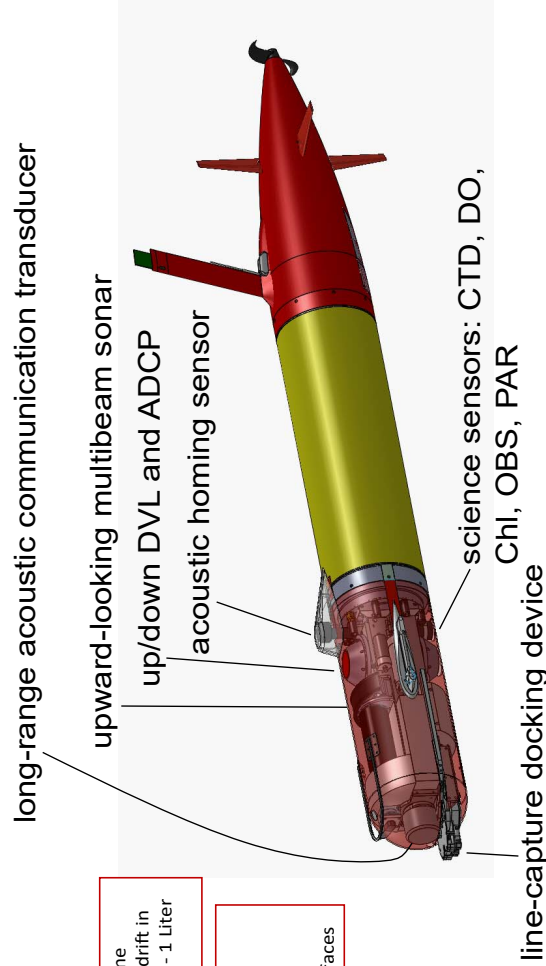
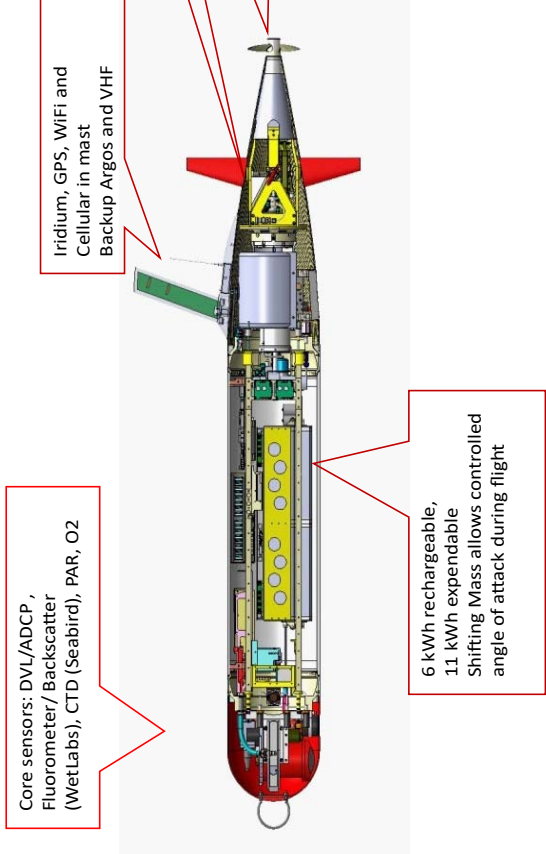


FIG. 5C

Tethys LRAUV Specifications

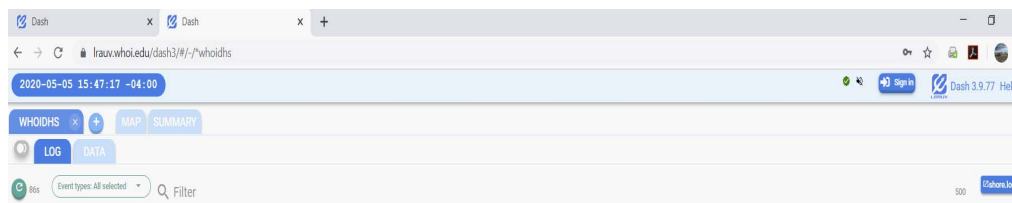


Short Nose

Mass:	110 kg (240lb) dry weight	160 kg (354 lbs)
Size:	0.3m (12") diameter, 2.47m long	3.18 m long
Speed:	0.5 – 1.2 m/s plus hover	0.5 – 1.0 m/s plus hover
400 Ah energy, ~1.1 Ah/hr, ~3 km/hr .83 m/sec ~15 days, 1000 km		400 Ah energy, ~1.5 Ah/h ~2.5km/ hr ~11 days, 670 km

FIG. 6A

FIG. 6B



Time	Vehicle	Type	Description	Component
2020-05-05 15:40:24 7m	whoildhs	● Sat Comms	Request command Id: 7421, index: 0, failc, name: whoildhs_007422.sbd, bytes: 20	whoildhs_007422.sbd
2020-05-05 15:40:00 7m	whoildhs	● Command Request	by Noa Yoder, id: 7421, acomm test failc	
2020-05-05 15:39:31 8m	whoildhs	● Ac Comms	Received 48 bytes, file: 2020/202005/20200505T172817/shore0032.parts/300234065063620_900003.sbd.0000, momsn: 900003, mtmsn: 0	300234065063620_900003.sbd
2020-05-05 15:39:23 8m	whoildhs	● Ac Comms	Received 192 bytes, file: 2020/202005/20200505T172817/shore0032.parts/300234065063620_900002.sbd.0001, momsn: 900002, mtmsn: 0	300234065063620_900002.sbd
2020-05-05 15:39:10 8m	whoildhs	● Ac Comms	Received 53 bytes, file: 2020/202005/20200505T172817/shore0031.parts/300234065063620_900001.sbd.0000, momsn: 900001, mtmsn: 0	300234065063620_900001.sbd
2020-05-05 15:39:03 8m	whoildhs	● Ac Comms	Received 192 bytes, file: 2020/202005/20200505T172817/shore0031.parts/300234065063620_900000.sbd.0001, momsn: 900000, mtmsn: 0	300234065063620_900000.sbd
2020-05-05 15:32:19 15m	whoildhs	● Sat Comms	Request command Id: 7406, index: 0, failc, name: whoildhs_007407.sbd, bytes: 20	whoildhs_007407.sbd
2020-05-05 15:32:17 15m	whoildhs	● Command Request	by Noa Yoder, id: 7406, acomm test failc	
2020-05-05 15:25:17 22m	whoildhs	● Sat Comms	Request command Id: 7404, index: 0, failc, name: whoildhs_007405.sbd, bytes: 20	whoildhs_007405.sbd
2020-05-05 15:24:57 22m	whoildhs	● Command Request	by Noa Yoder, id: 7404, acomm test failc	
2020-05-05 15:14:46 33m	whoildhs	● Sat Comms	Request command Id: 7402, index: 0, failc, name: whoildhs_007403.sbd, bytes: 20	whoildhs_007403.sbd
2020-05-05 15:14:19 33m	whoildhs	● Command Request	by Noa Yoder, id: 7402, acomm test failc	
2020-05-05 15:12:13 35m	whoildhs	● Fault	LCB fault: Software Overcurrent.	NAL9602
2020-05-05 15:12:12 35m	whoildhs	● Fault	GPS failed to acquire within timeout.	NAL9602
2020-05-05 15:09:59 37m	whoildhs	● Critical	Communications Fault in component: RDI_PathfinderUp	CBIT

FIG. 7A

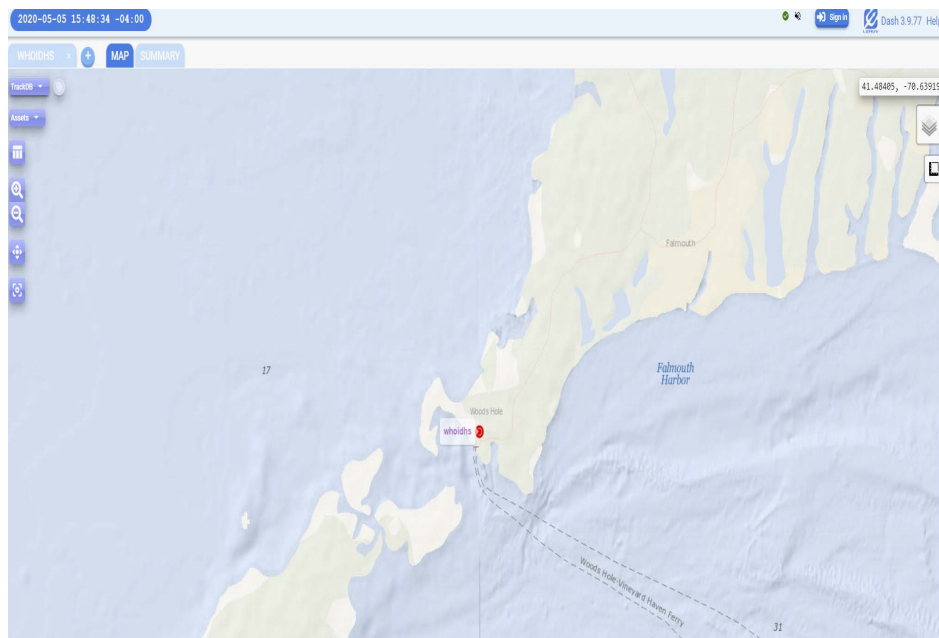


FIG. 7B

FIG. 8A

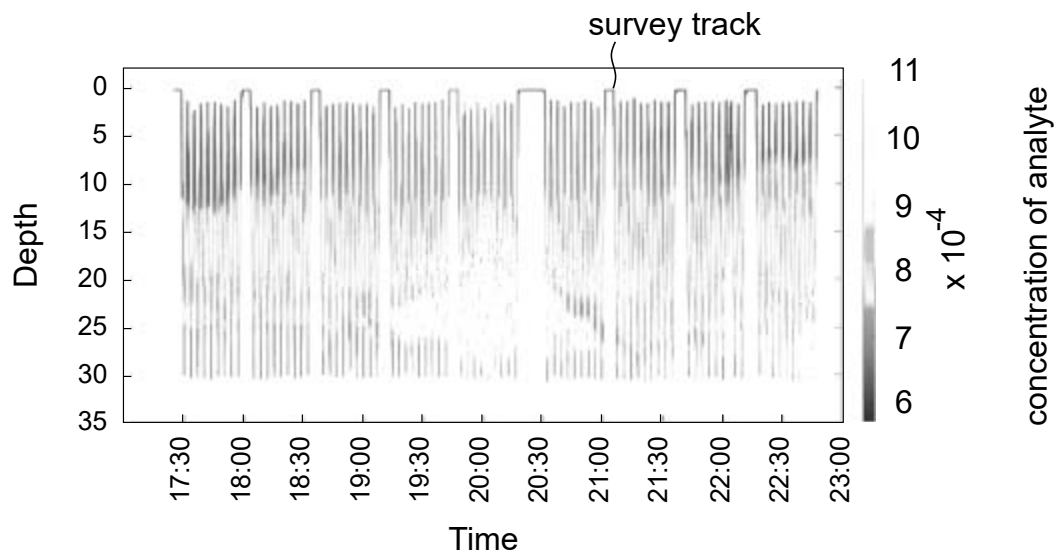


FIG. 8B

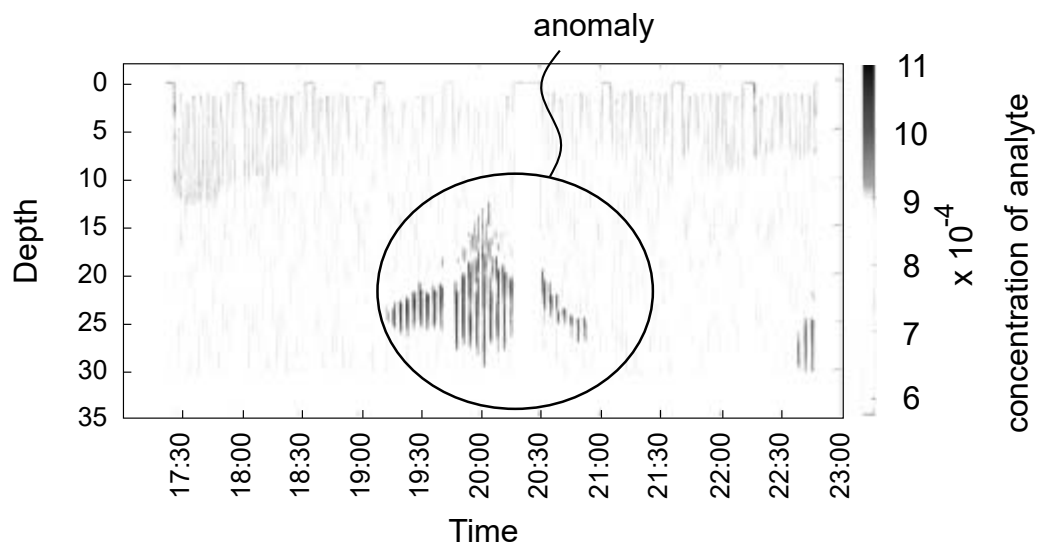


FIG. 9

