

**ROV operator comment:**

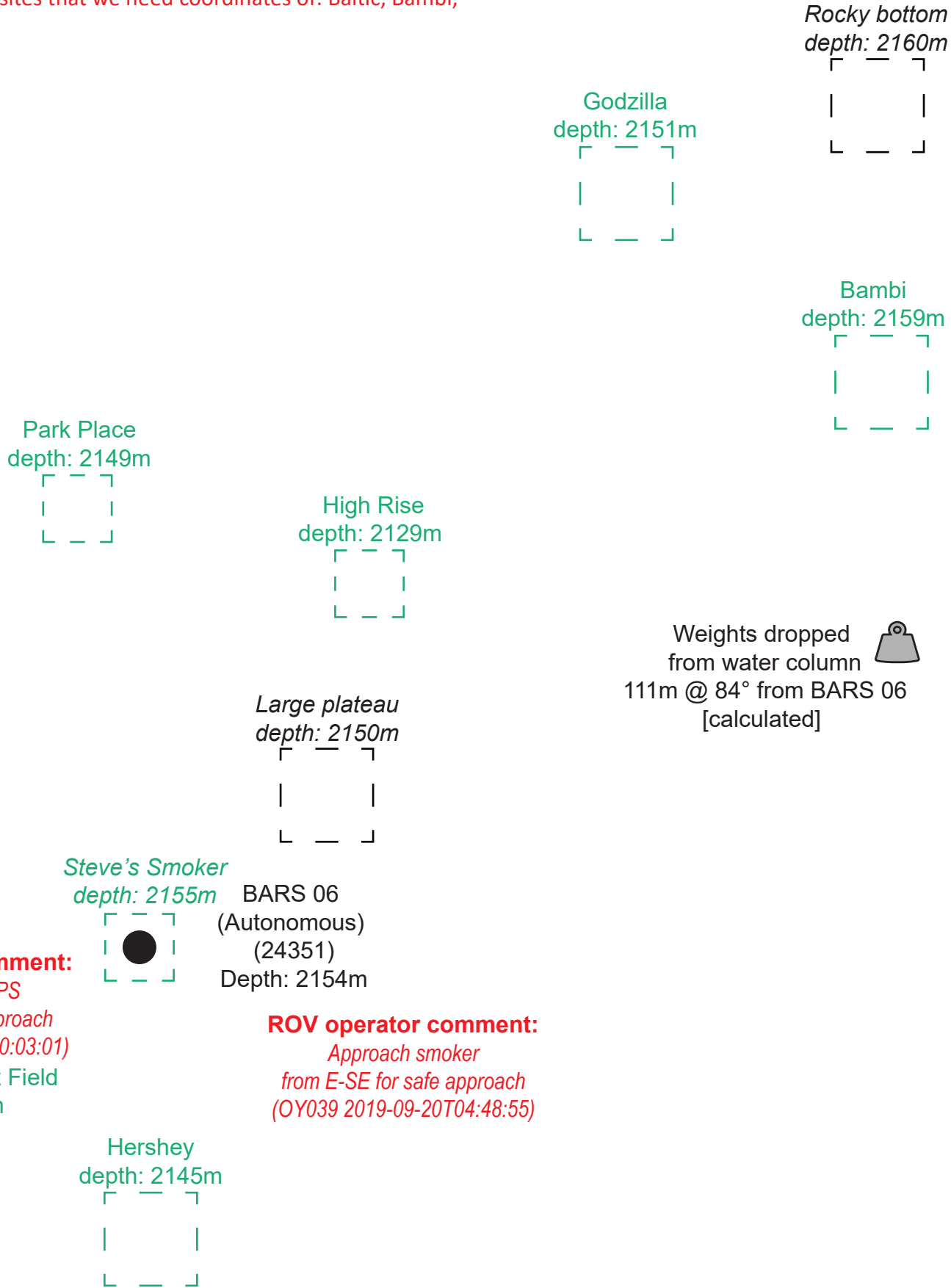
- The original layout relied on device that has been recovered. New center of the layout is High Rise.
- Site requires extensive surveying.
- ROV during Nautilus 2022-07 had to be up in the column for sonar to operate properly.
- Nearby smokers/sites that we need coordinates of: Baltic, Bambi, Boardwalk






OCEAN NETWORKS CANADA

**ENDEAVOUR  
HIGH RISE  
JULY 2022**



Weights dropped from water column   
111m @ 84° from BARS 06  
[calculated]

**ROV operator comment:**  
*Approach RAS/PPS from NW for safe approach (OY039 2019-09-20T00:03:01)*

**ROV operator comment:**  
*Approach smoker from E-SE for safe approach (OY039 2019-09-20T04:48:55)*

BARS 06  
(Autonomous)  
(24351)  
Depth: 2154m



**OCEAN NETWORKS CANADA**

**ENDERAOUR  
MEF NORTH  
JB-12 STATION  
SEPT 2023**



To Maris  
(74360, 74380)  
56m @ 5°  
[calculated: JB-12]

704  
(70m)

TBD "Tempo"  
(70m)

Severed  
cable

977  
(70m)

To Hydrophone Array  
(48960, 74240, 74220, 74200, 74140)  
45m @ 46°  
[calculated: JB-12]

703  
(70m)

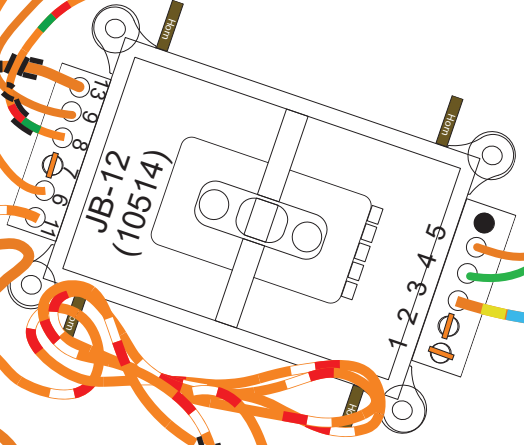
982  
(70m)

703  
(70m)

1150  
(70m)

323  
(70m)

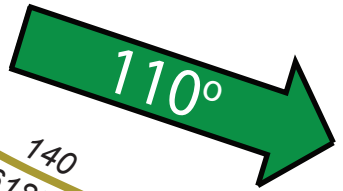
1245  
(70m)



To BARS 02  
(19002)  
40m @ 45°  
[calculated: JB-12]

To ADCP  
(23063)  
41m @ 86°  
[calculated: JB-12]

To Tempo-Mini  
(recovered,  
cable cut)  
42 m @ 52°  
[calculated: JB-12]



To JB-10  
(10103)  
113m @ 186°  
[calculated: JB-12]

879  
(151m)

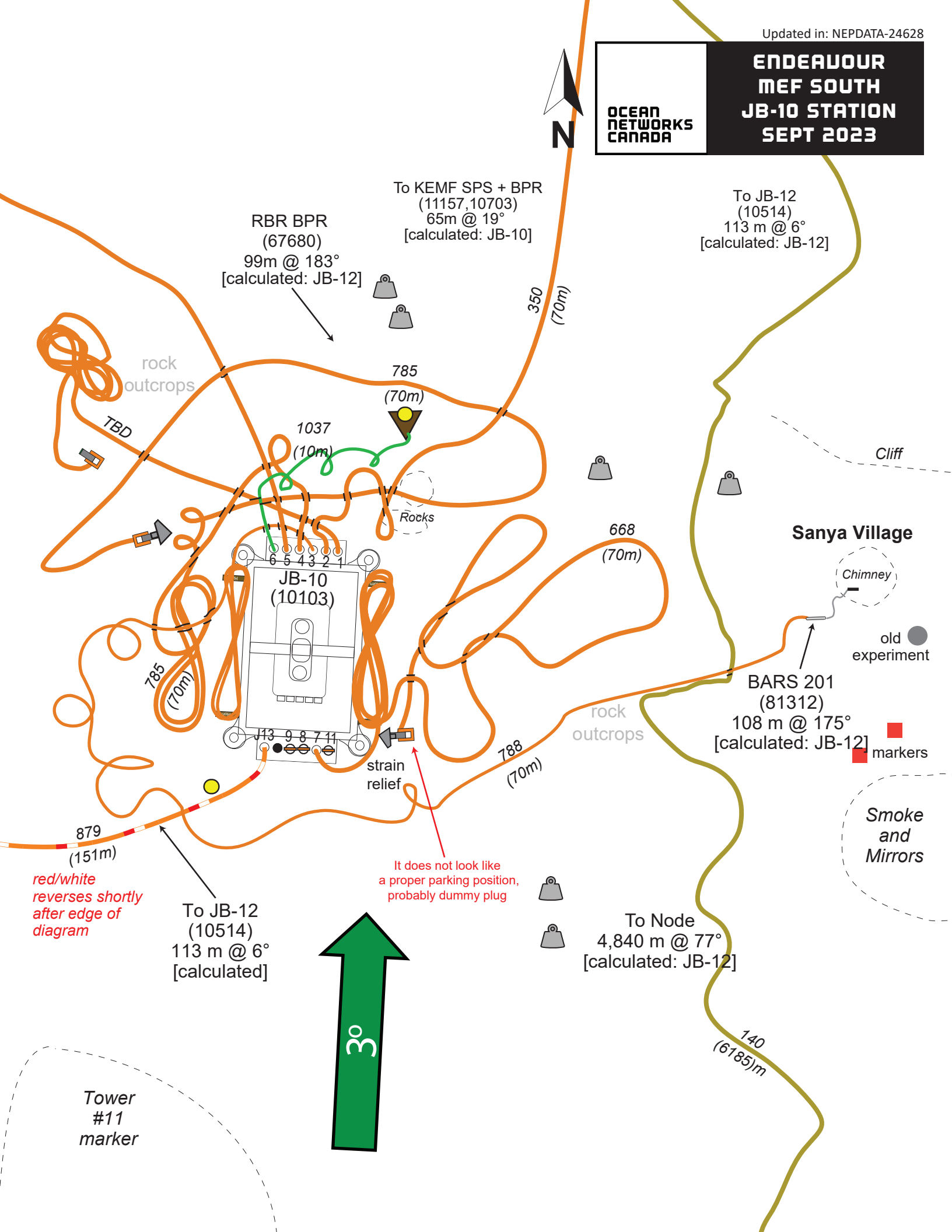
140  
(6185m)

To Node  
4,840 m @ 77°  
[calculated: JB-12]

To Tempo-Mini  
connector  
(cable cut)  
13m @ 155°  
[calculated: JB-12]

**OCEAN NETWORKS CANADA**

**ENDERAJOUR MEF SOUTH JB-10 STATION SEPT 2023**



RBR BPR  
(67680)  
99m @ 183°  
[calculated: JB-12]

To KEMF SPS + BPR  
(11157, 10703)  
65m @ 19°  
[calculated: JB-10]

To JB-12  
(10514)  
113 m @ 6°  
[calculated: JB-12]

rock outcrops

TBD

1037  
(10m)

785  
(70m)

350  
(70m)

Cliff

Rocks

JB-10  
(10103)

668  
(70m)

Sanya Village

Chimney

old experiment

BARS 201  
(81312)  
108 m @ 175°  
[calculated: JB-12]

Smoke and Mirrors

strain relief

788  
(70m)

879  
(151m)

red/white reverses shortly after edge of diagram

To JB-12  
(10514)  
113 m @ 6°  
[calculated]

It does not look like a proper parking position, probably dummy plug

To Node  
4,840 m @ 77°  
[calculated: JB-12]



Tower #11 marker

140  
(6185)m

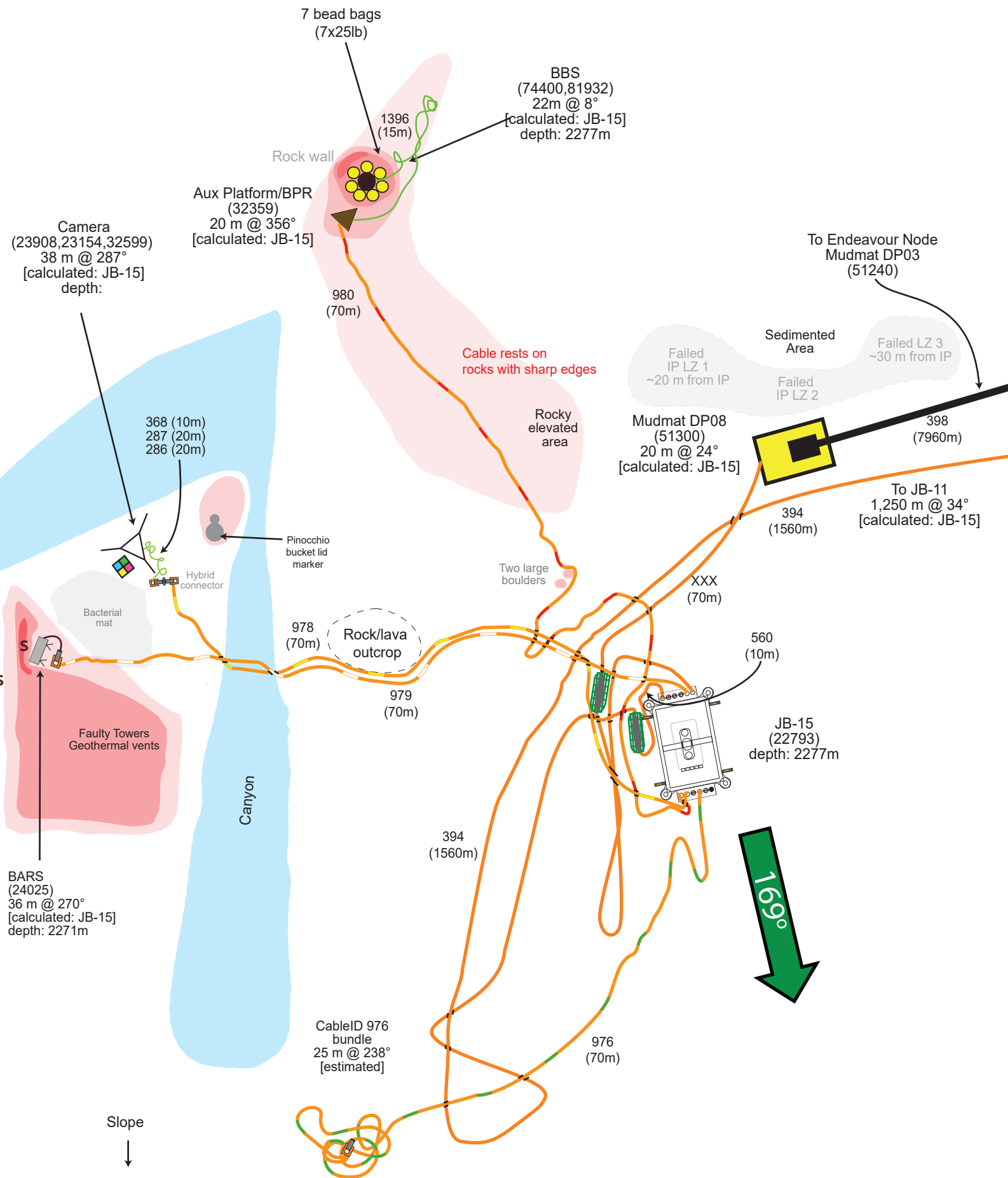
Comments:

- Site needs to be re-layed out. This diagram is stitched out of multiple dives, each one showing only small part of this site. Please fly over cables with ROV and JB-15.
- If time allows, more flying around mudmat required.
- Media Converter and Mudmat (NEPDATA-23654)
- Port J7 on JB-15 is faulty - very likely compromised
- It looks like there are two media converters on cable 560, but very likely the further one is rather on the cable that goes to Endeavour Node Mudmat
- Position confirmation for the mudmat



**OCEAN NETWORKS CANADA**

**ENDEAVOUR  
MOTHR  
OVERVIEW  
JULY 2023**



# ENDEAVOUR MOTHRRA STATION JULY 2023



To  
Aux Platform/BPR  
20m @ 356°  
[calculated: JB-15]

To BBS  
22m @ 8°  
[calculated: JB-15]

To JB-11  
1,250 m @ 34°  
[calculated: JB-15]

To Mudmat DP08  
(51300)  
20 m @ 24°  
[calculated: JB-15]

To Camera  
38m @ 287°  
[calculated: JB-15]

To BARS  
(24025)  
36m @ 270°  
[calculated: JB-15]

394  
(1560m)

XXX  
(70m)

978  
(70m)

979  
(70m)

XXX  
(70m)

JB-15  
(22793)  
depth: 2277m

394  
(1560m)

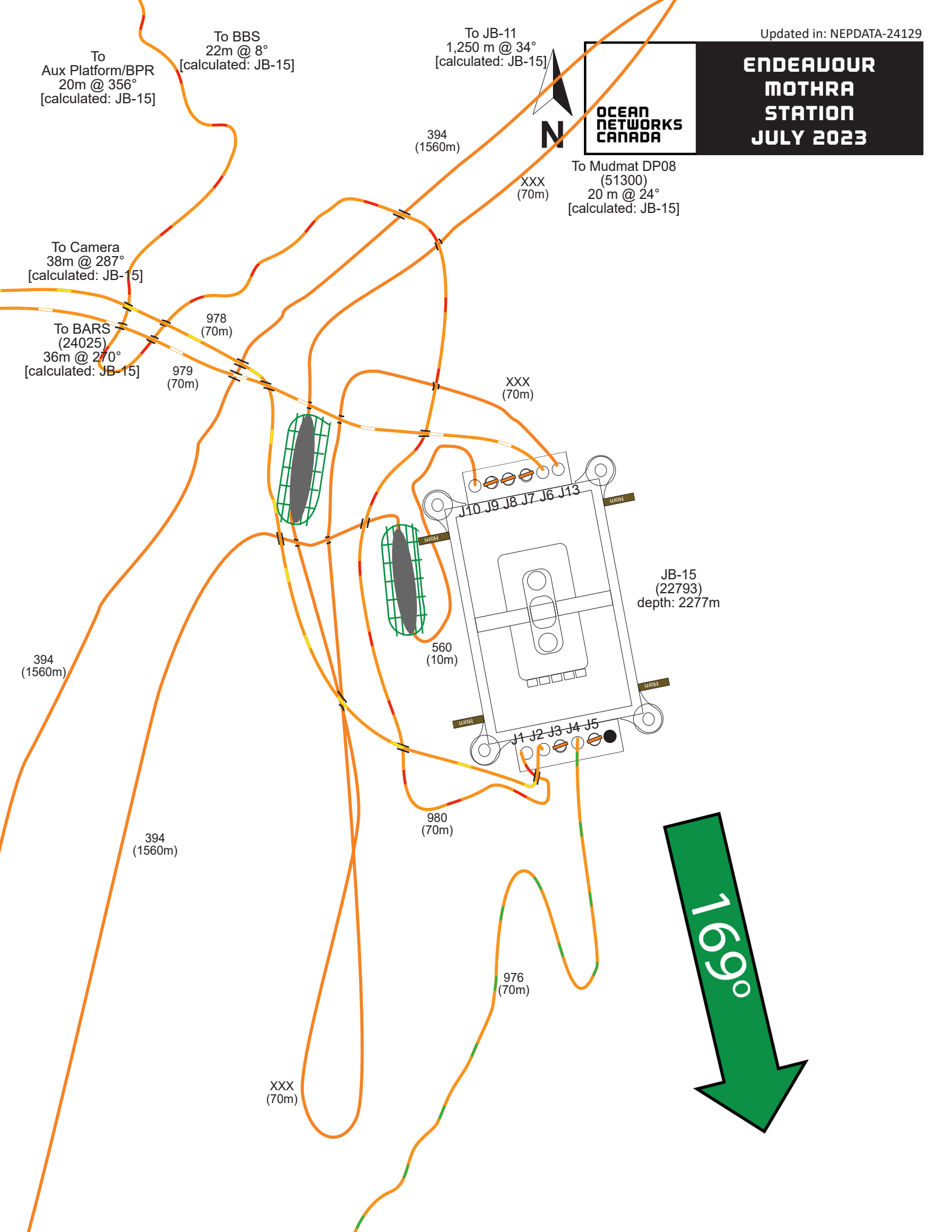
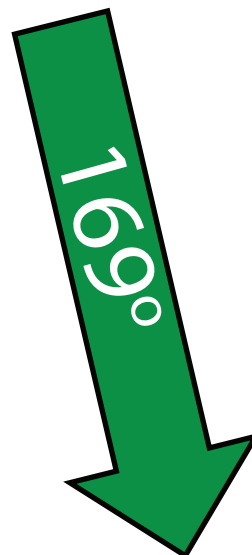
560  
(10m)

980  
(70m)

394  
(1560m)

976  
(70m)

XXX  
(70m)





Comments:

- We would like to redo this site to include mudmats. Can we fly around mudmats and follow cables?
- Are there any media controllers on the way or are incorporated into mudmats?
- What is the white object (looks like a PVC pipe) South of the Node? What is the "thing" next to it? We have it labeled as "flange", but there is very likely more technical term.
- Please provide description of each item during the dive, during last visit we had position confirmations and biology logged

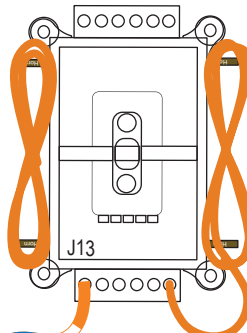
OCEAN  
NETWORKS  
CANADA

**ENDEAVOUR NODE**

**JULY 2023**



CTD (26779)  
& O2 (26899)  
poked through  
this side



JB-14  
(10512)  
7 m @ 10°  
Depth: 2320m  
[visual: Node]

Weights 2X25lb  
38m @55°  
[Calculated]



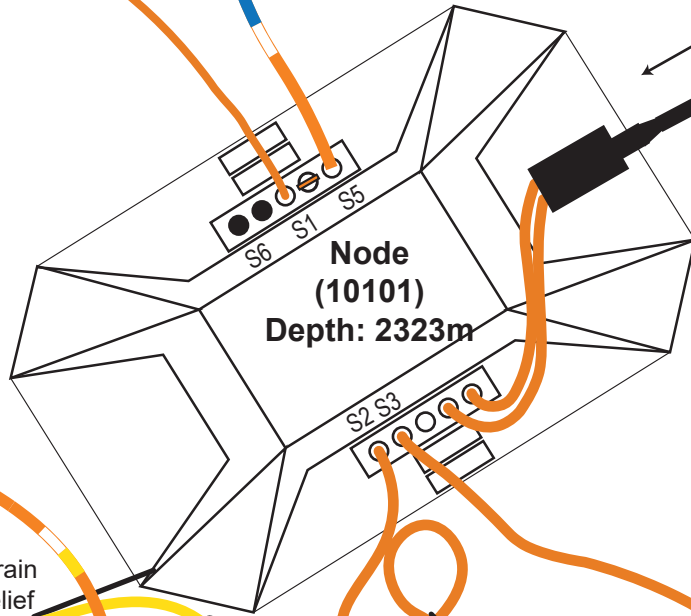
To Mudmat DP04  
(51260)  
24 m @ 302°  
[calculated: Node]

TBD  
(70m)



To Root Node

To Mudmat DP10  
(44840)  
33 m @ 280°  
[calculated: Node]



NWMO  
(OY090-EXP-001)  
31m @ 155°  
[calculated]

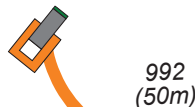
strain relief

flange box

49  
(250m)

XXX  
(70m)

To JB-12  
(10514)  
4.8 km @ 257°  
[calculated: Node]

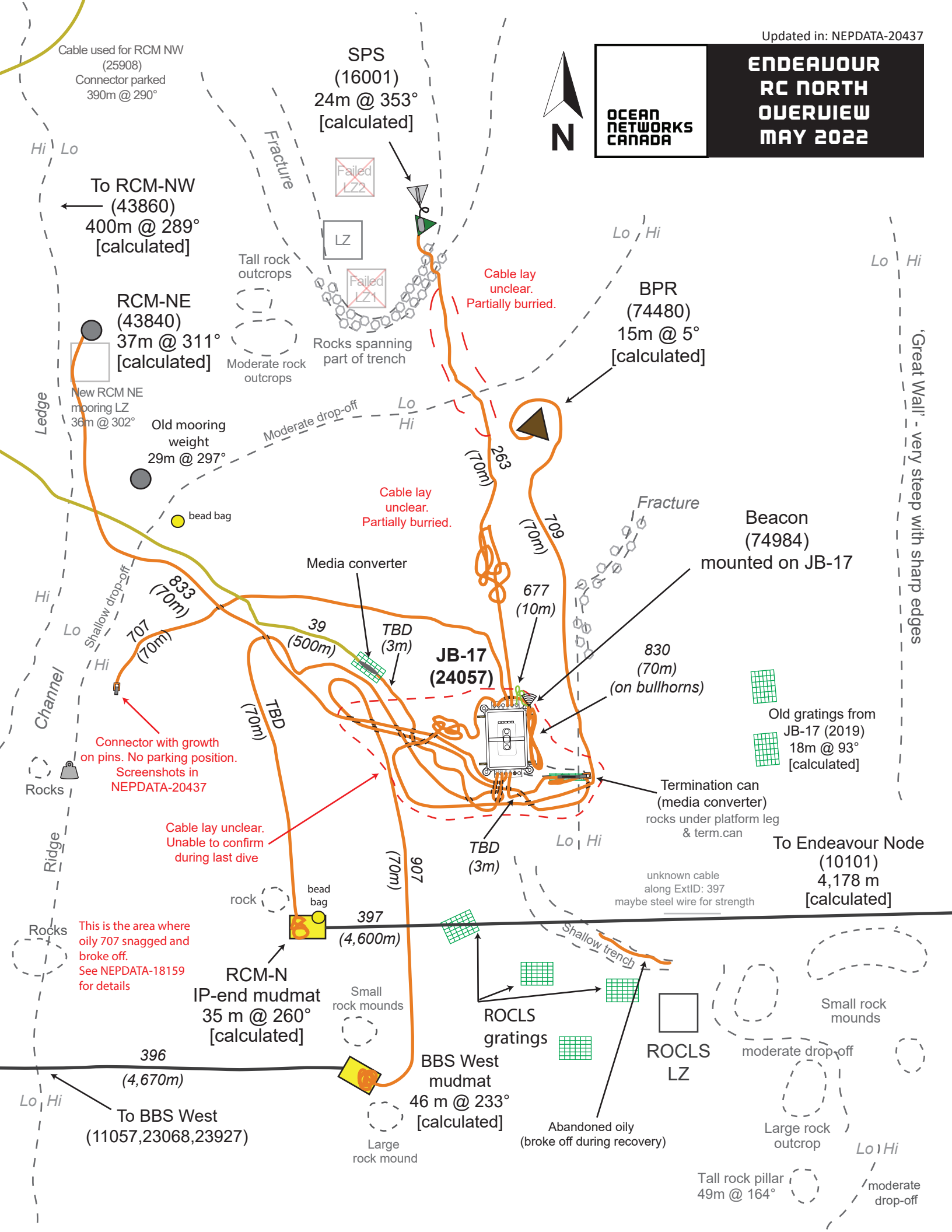


To Mudmat DP03  
(51240)  
~30 m @232  
[calculated: Node]

**OCEAN NETWORKS CANADA**

**ENDEAVOUR RC NORTH OVERVIEW**

**MAY 2022**



**SPS (16001)**  
24m @ 353°  
[calculated]

Cable used for RCM NW (25908)  
Connector parked 390m @ 290°

To RCM-NW (43860)  
400m @ 289°  
[calculated]

**RCM-NE (43840)**  
37m @ 311°  
[calculated]

New RCM NE mooring LZ  
36m @ 302°

Old mooring weight  
29m @ 297°

**BPR (74480)**  
15m @ 5°  
[calculated]

**Beacon (74984)**  
mounted on JB-17

**JB-17 (24057)**

Old gratings from JB-17 (2019)  
18m @ 93°  
[calculated]

Termination can (media converter)  
rocks under platform leg & term.can

To Endeavour Node (10101)  
4,178 m  
[calculated]

**RCM-N IP-end mudmat**  
35 m @ 260°  
[calculated]

**BBS West mudmat**  
46 m @ 233°  
[calculated]

To BBS West (11057,23068,23927)

Tall rock pillar  
49m @ 164°

'Great Wall' - very steep with sharp edges

Connector with growth on pins. No parking position.  
Screenshots in NEPDATA-20437

Cable lay unclear. Unable to confirm during last dive

This is the area where oily 707 snagged and broke off.  
See NEPDATA-18159 for details

Cable lay unclear. Partially buried.

Cable lay unclear. Partially buried.

unknown cable along ExtID: 397  
maybe steel wire for strength

Abandoned oily (broke off during recovery)

Hi Lo

Lo Hi

Lo Hi

Lo Hi

Hi Lo

Hi Lo

Rocks

Rocks

Lo Hi

Lo Hi

Lo Hi

moderate drop-off



**OCEAN NETWORKS CANADA**

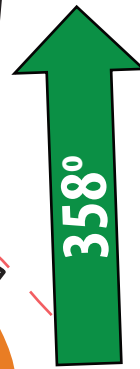
**ENDEAVOUR RC NORTH STATION MAY 2022**



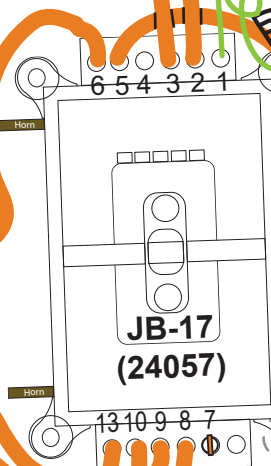
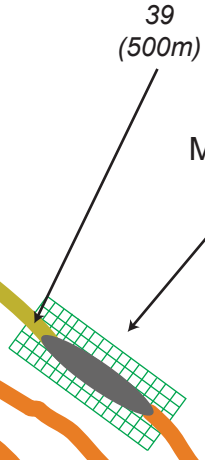
To SPS  
(16001)  
24m @ 353°  
[calculated]

To BPR  
(74480)  
14m @ 13°  
[calculated]

Beacon  
(74984)  
mounted on JB-17



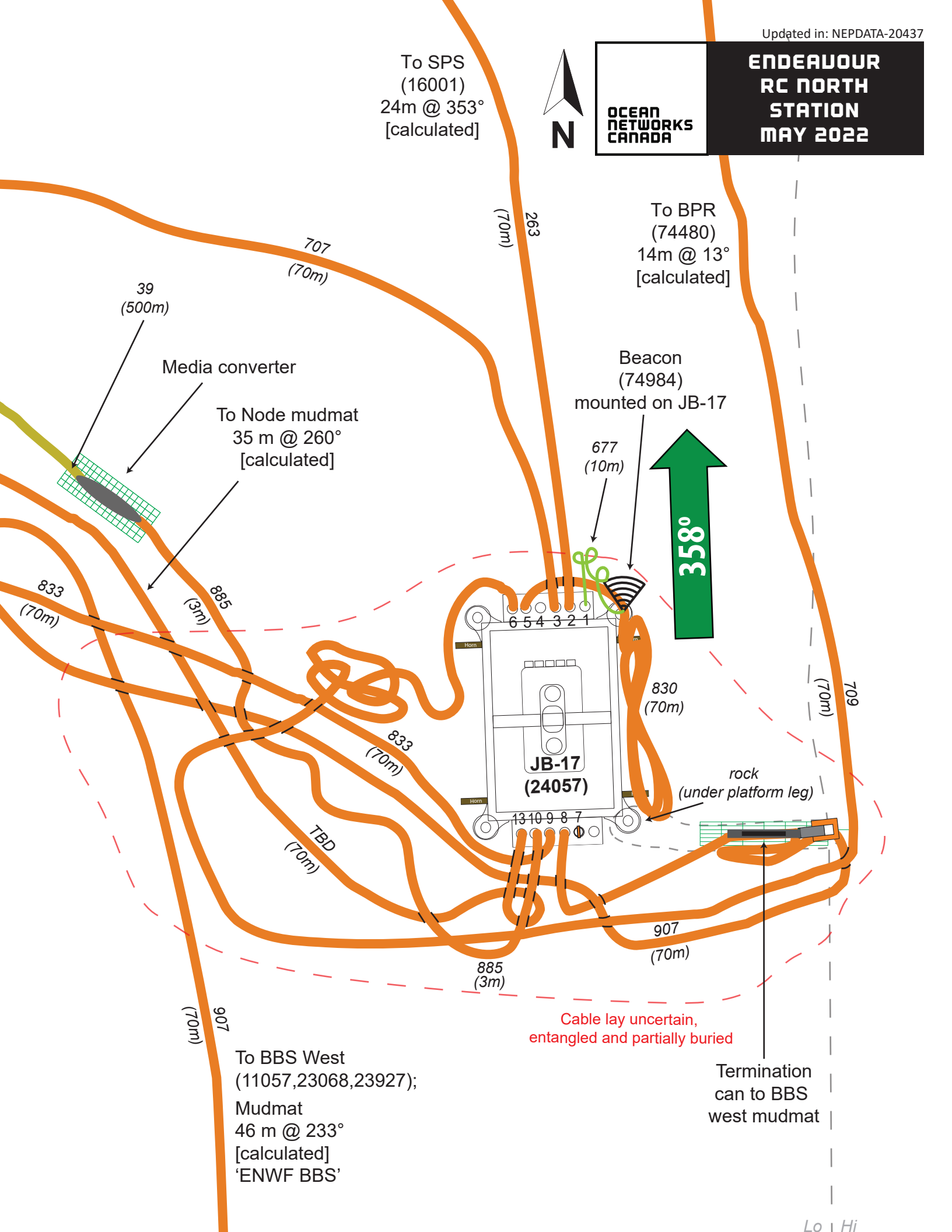
To Node mudmat  
35 m @ 260°  
[calculated]



Cable lay uncertain,  
entangled and partially buried

Termination  
can to BBS  
west mudmat

To BBS West  
(11057,23068,23927);  
Mudmat  
46 m @ 233°  
[calculated]  
'ENWF BBS'

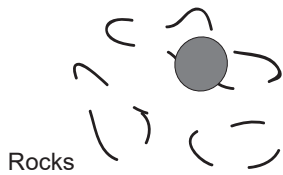




OCEAN NETWORKS CANADA

# ENDEAVOUR RC SOUTH OVERVIEW JULY 2023

old mooring base  
19 m @ 353°  
[calculated: JB-11]



train wheel with  
3m rope off bottom  
63 m @ 301°  
[calculated: JB-11]

JB-026/mooring base  
(64920)  
9m @ 325°  
[calculated: JB-11]

Rough terrain,  
numerous rock mounds  
and rocks

Rocks

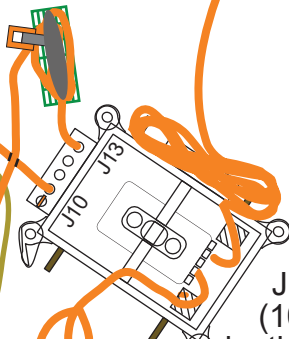
Small "cliff"

To RCMSW  
(mooring recovered,  
ExtID 44 left connected  
to cable tester)  
629 m @ 288°  
[calculated: JB-11]

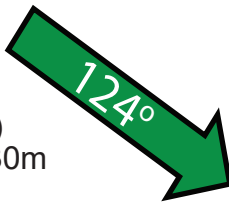
901  
(10m)

820  
(70m)

44  
(870m)



JB-11  
(10116)  
depth: 2230m



Rocks

TB LZ  
XX-YY  
Depth: 2165m

TB LZ  
XX-YY  
Depth: 2226m

Rocks

Flange box

XXX  
(YYm)

Slope

118  
(30m)

BPR  
14 m @ 176°  
[calculated: JB-11]

To Mothra IP (JB-15)  
(22793)  
1,250 m @ 214°  
[calculated: JB-11]

Comments:

- Need to confirm coordinates of all devices due to observed position drift of 20m NE during Nautilus 2023-07.
- All distances were fixed with respect Aux Platform, not with respect to the mudmat.



**ENDEAVOUR  
RIDGE FLANK  
OVERVIEW  
JULY 2023**

**ALL DISTANCES AND HEADINGS  
ARE FROM AUX PLATFORM.**

