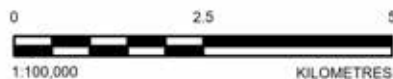


LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 67 (2020)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 67 (2020) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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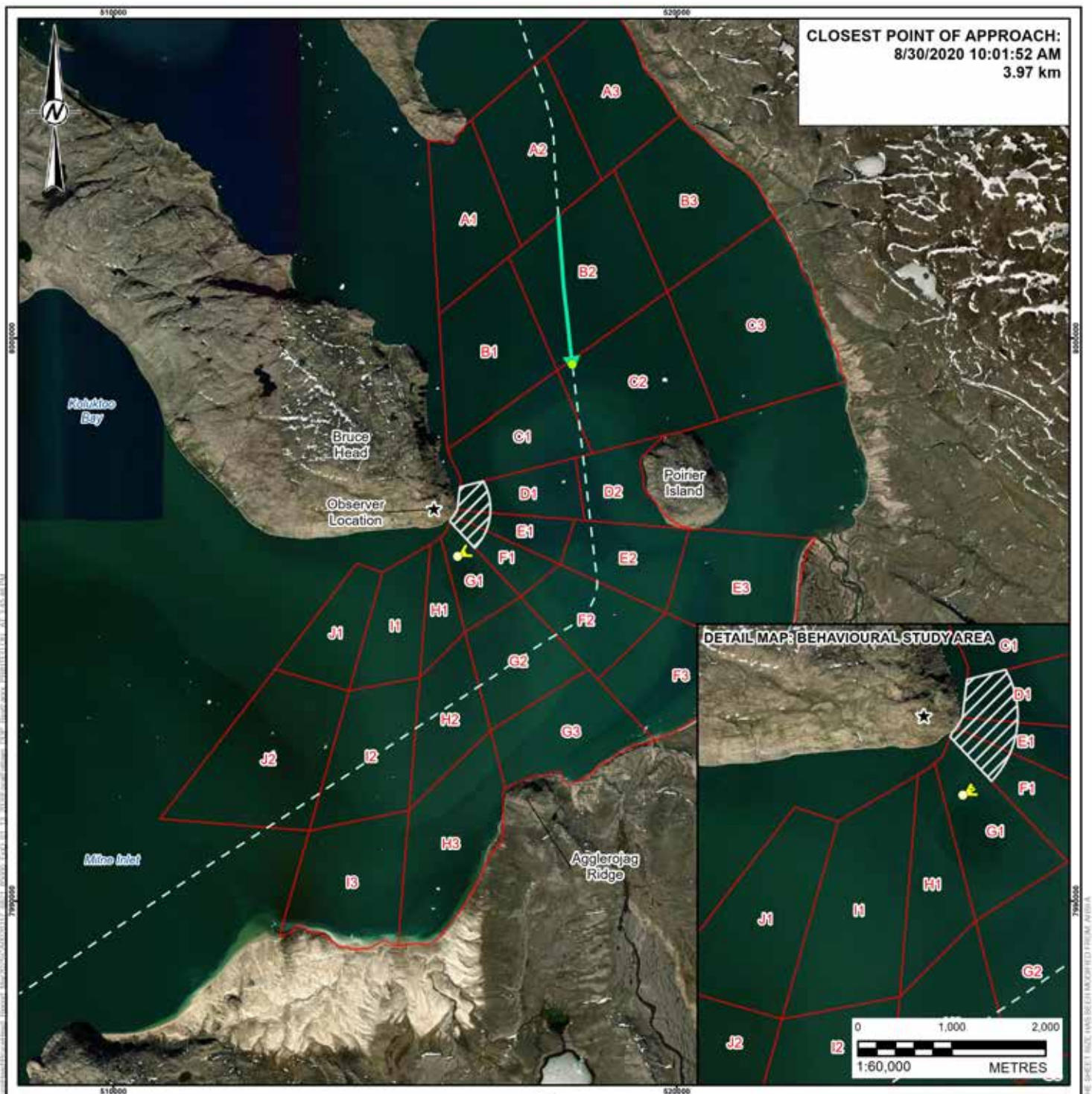
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CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-9



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 83 (2020)
- ACTIVE VESSEL TRANSIT (BULK DESTINY)
- NON-ACTIVE VESSEL TRANSIT (BULK DESTINY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 83 (2020) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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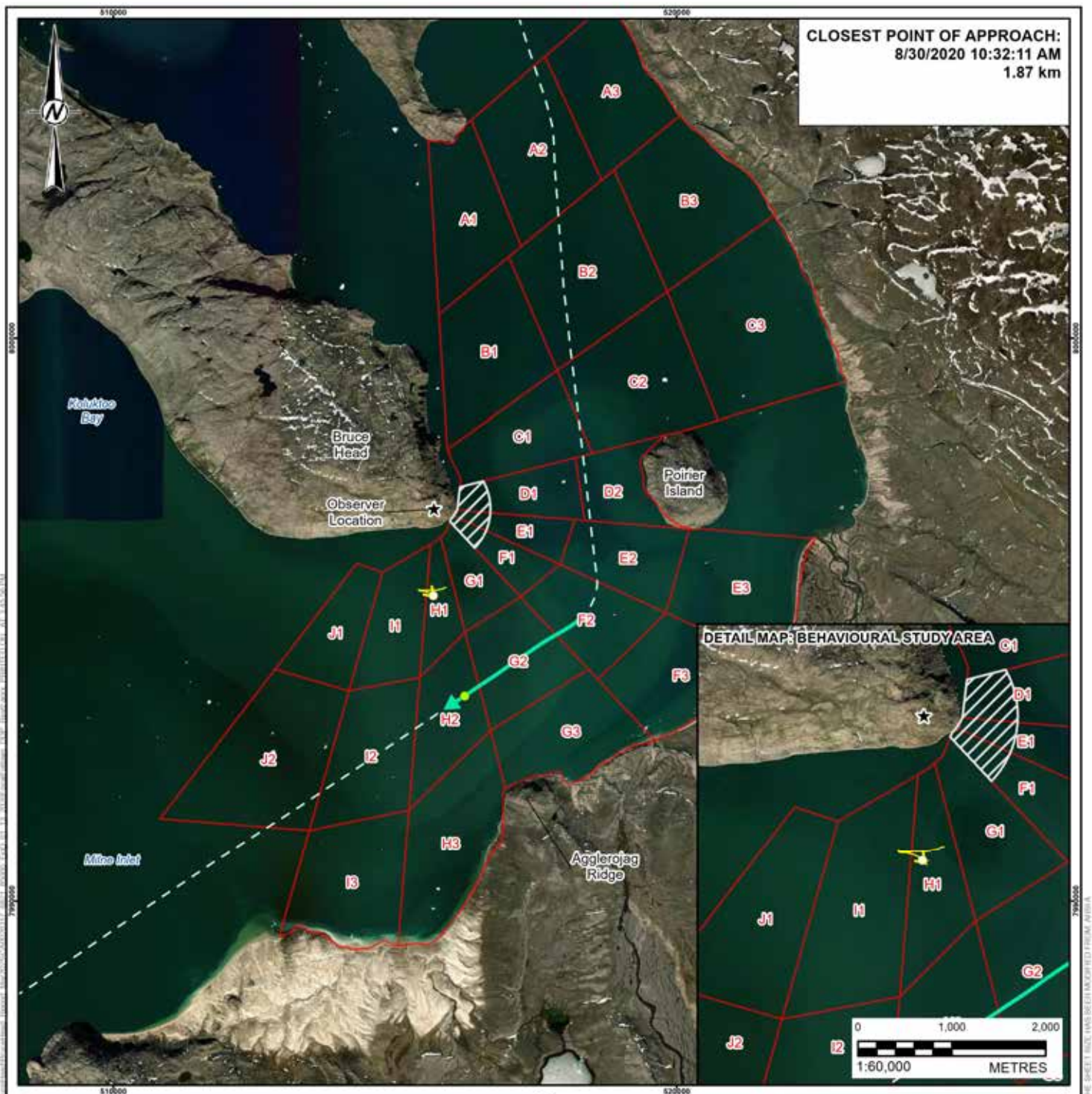
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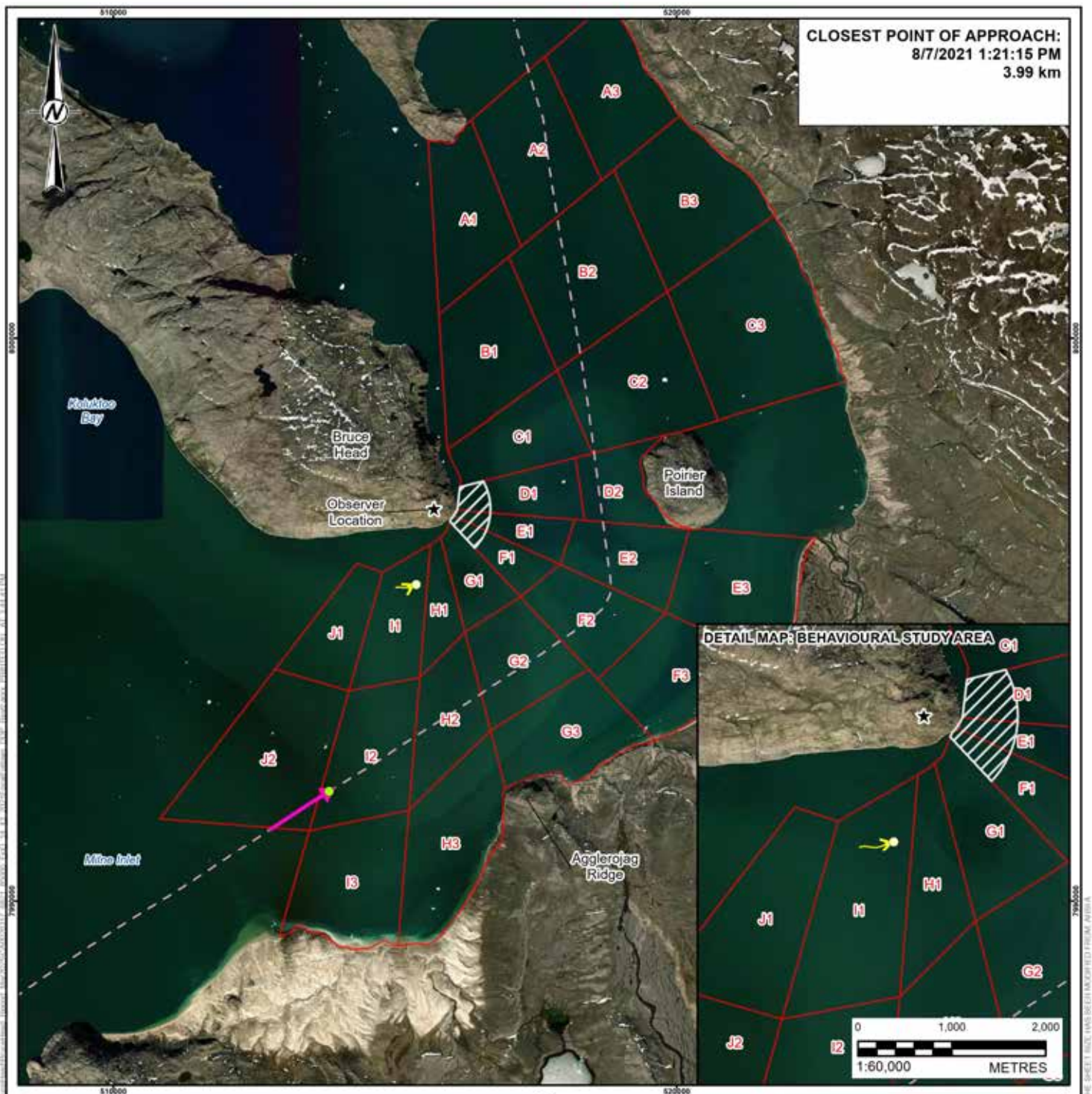
PROJECT NO.
CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-11





LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 33 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 33 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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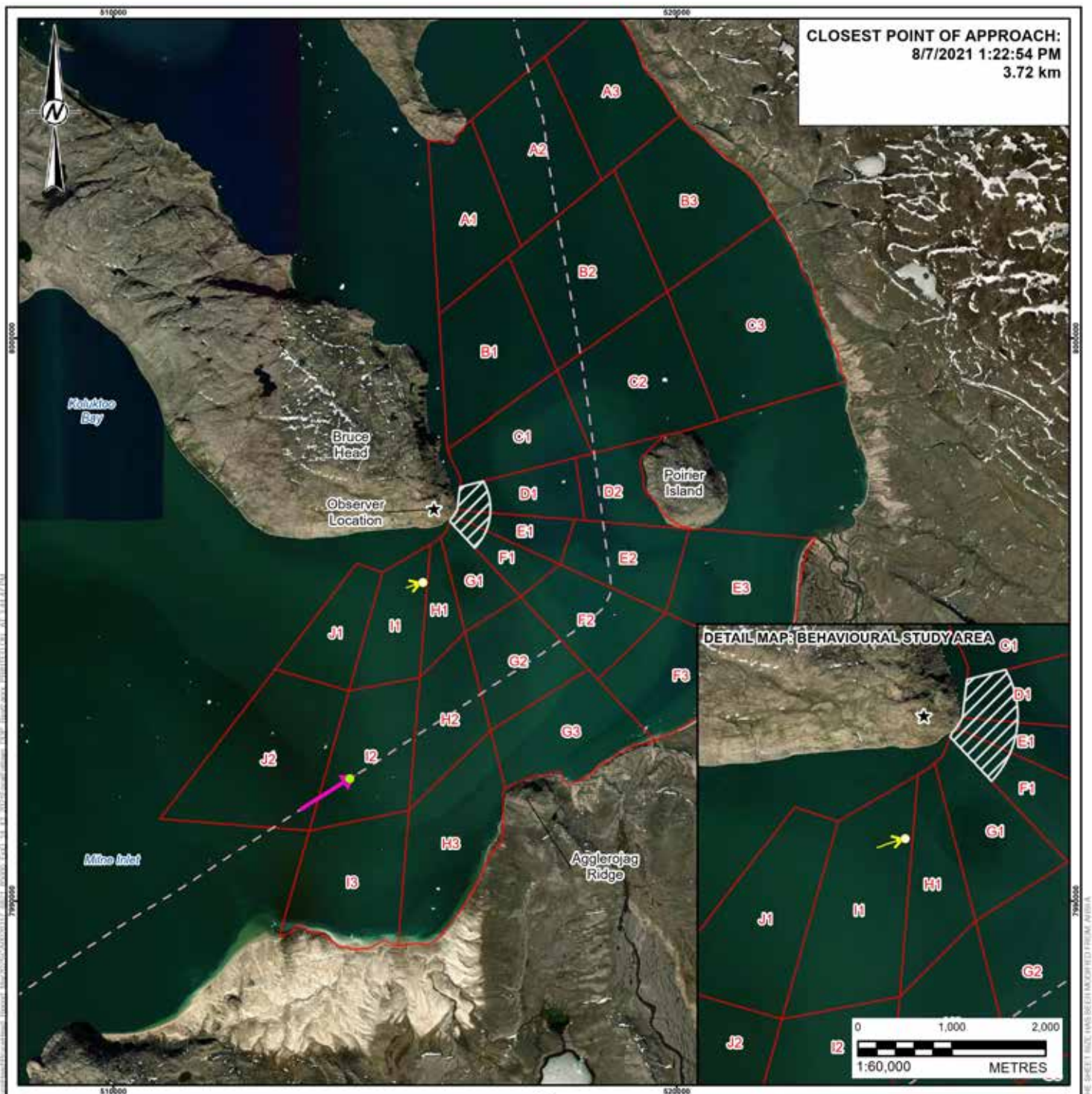
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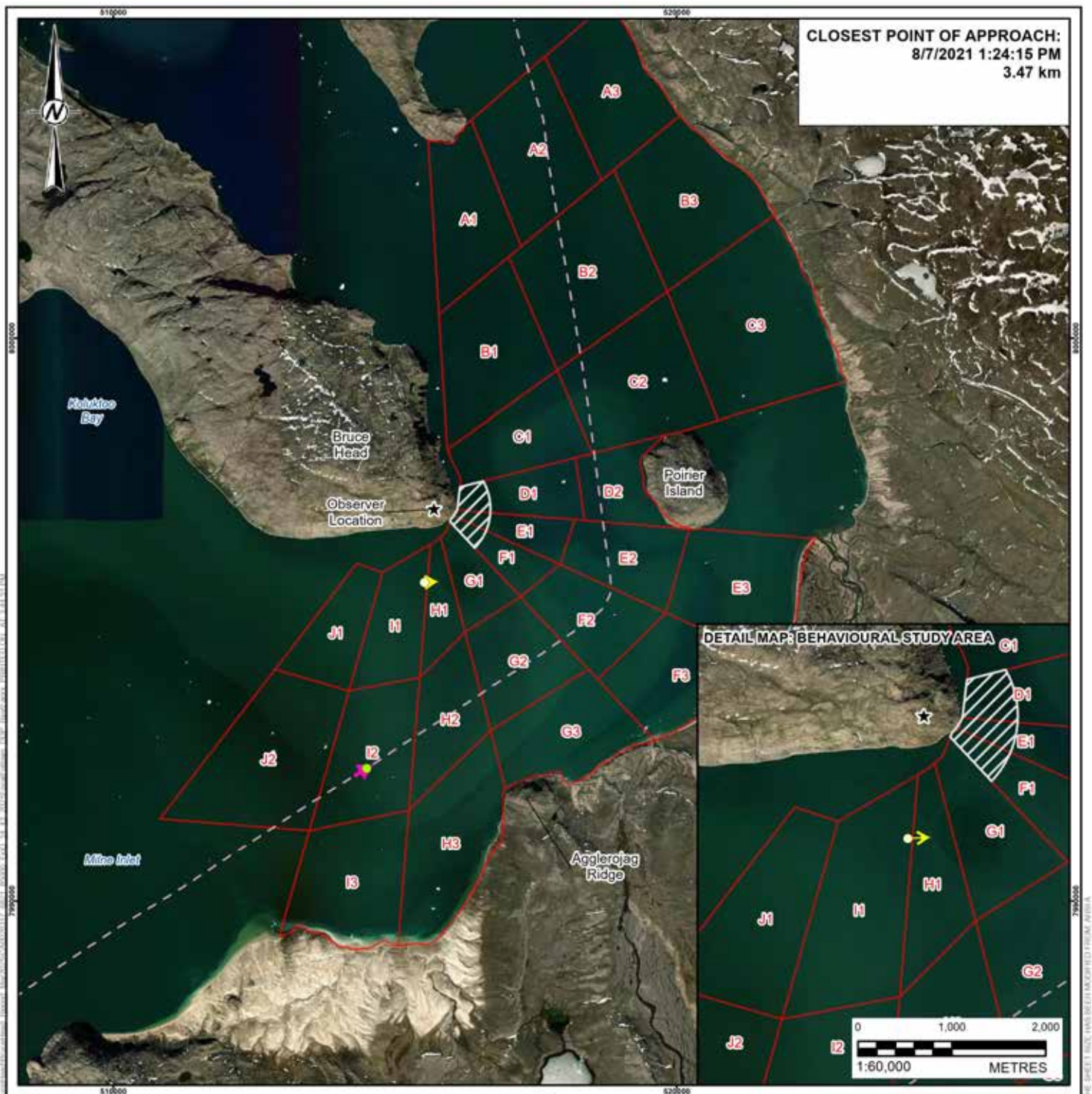
REV.
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FIGURE
D-14



1:60,000
 0 1,000 2,000
 METRES
 0 2.5 5
 KILOMETRES
 1:100,000
 0 1,000 2,000
 METRES
 0 2.5 5
 KILOMETRES
 1:100,000

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANTI-A



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 35 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 35 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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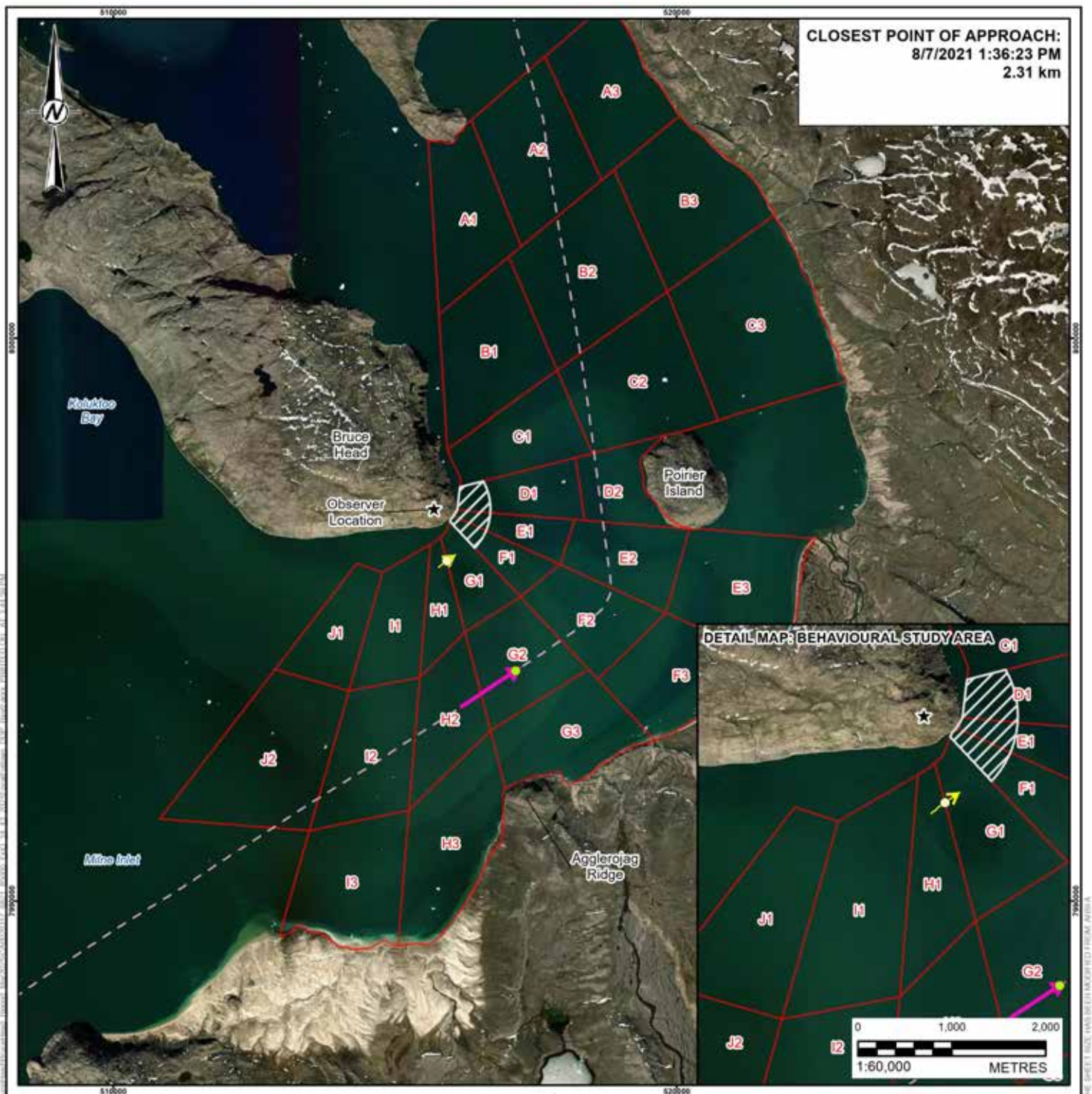
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CA0026317.6821

CONTROL
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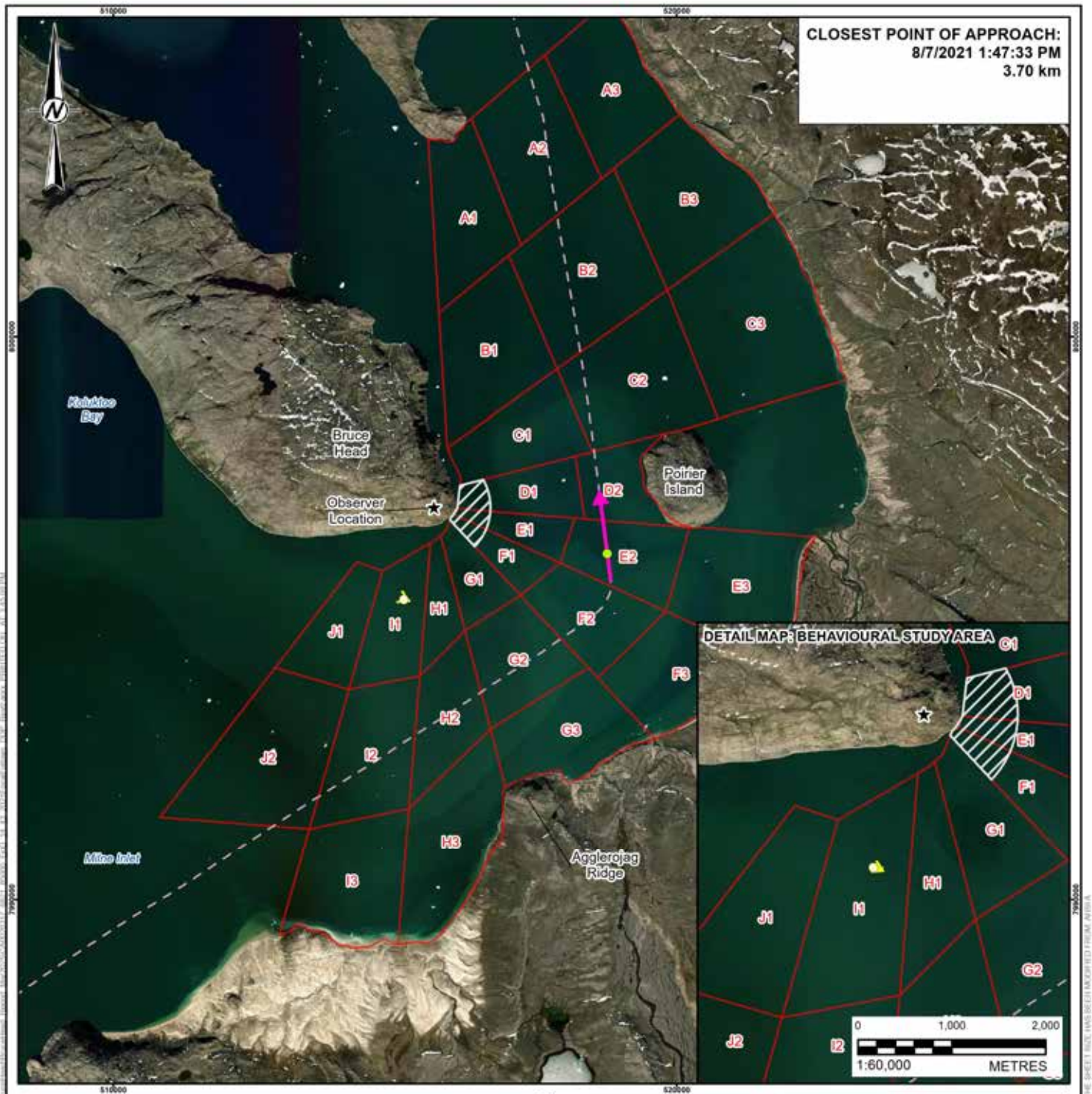
REV.
0

FIGURE
D-16



1:60,000
 0 1,000 2,000
 METRES
 0 2.5 5
 KILOMETRES
 1:100,000
 0 1,000 2,000
 METRES
 0 2.5 5
 KILOMETRES
 1:100,000

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANTI-A



CLOSEST POINT OF APPROACH:
8/7/2021 1:47:33 PM
3.70 km

LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 39 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 39 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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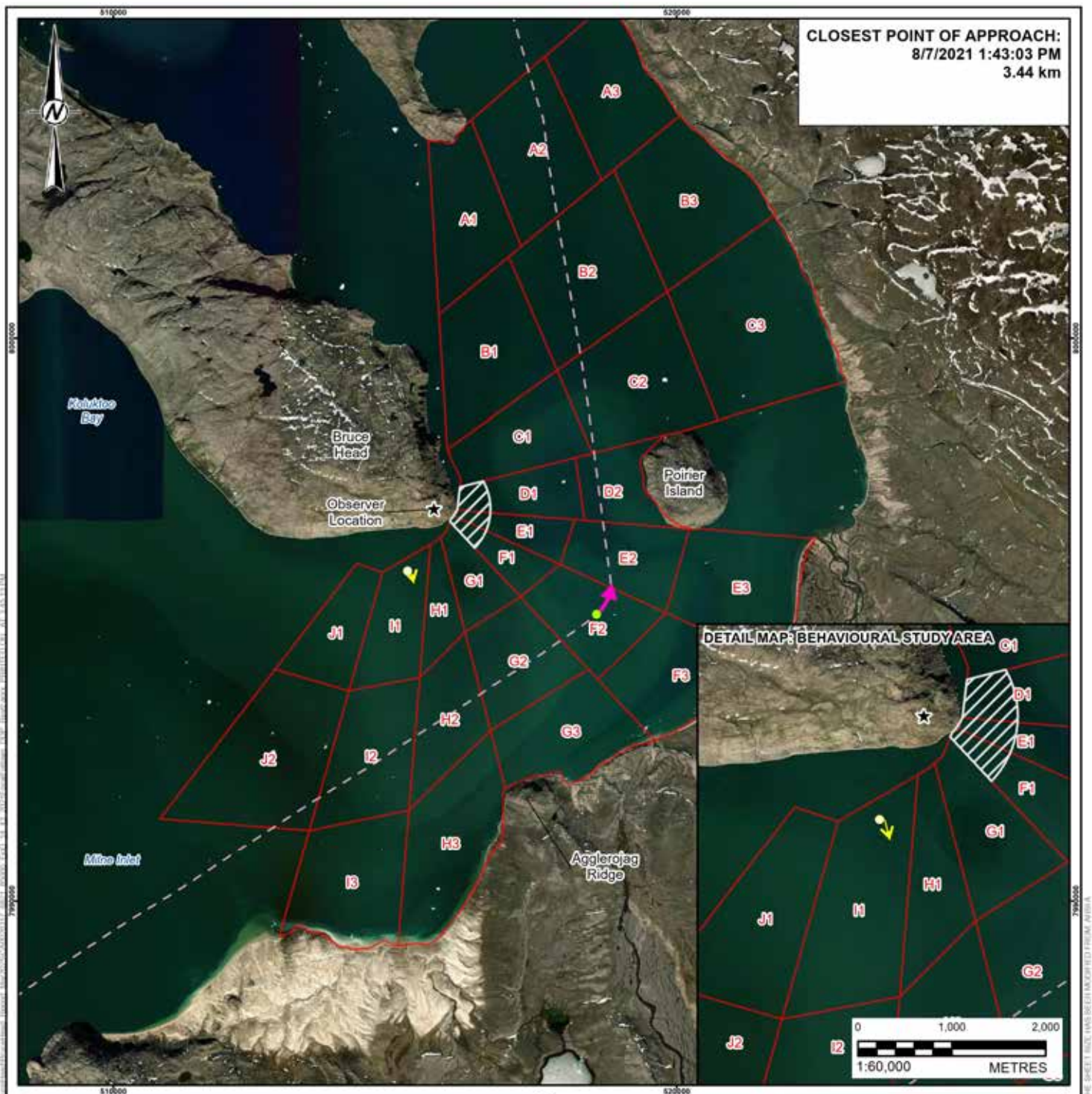
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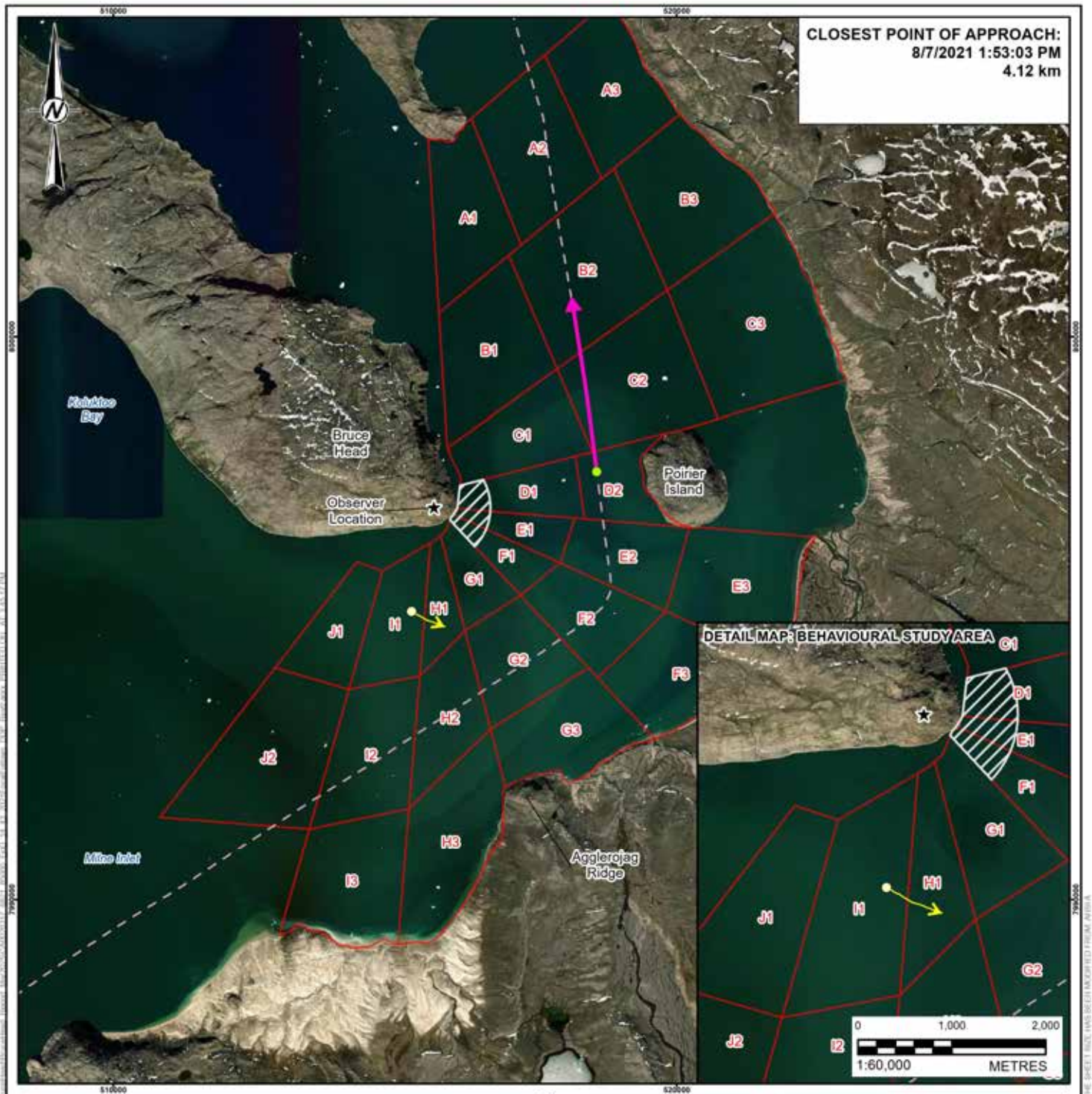
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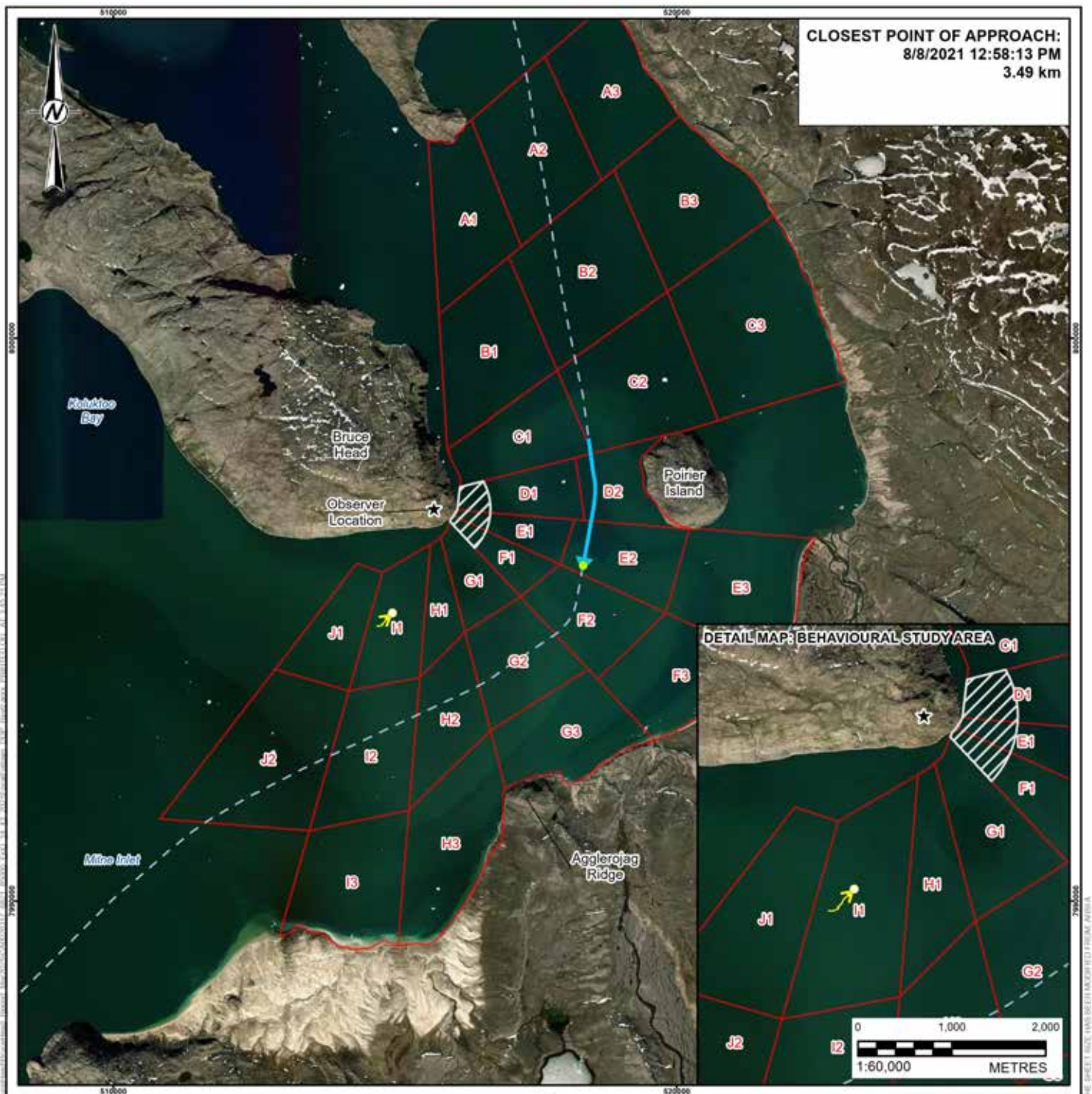
CONTROL
85000

REV.
0

FIGURE
D-21







LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 47 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 47 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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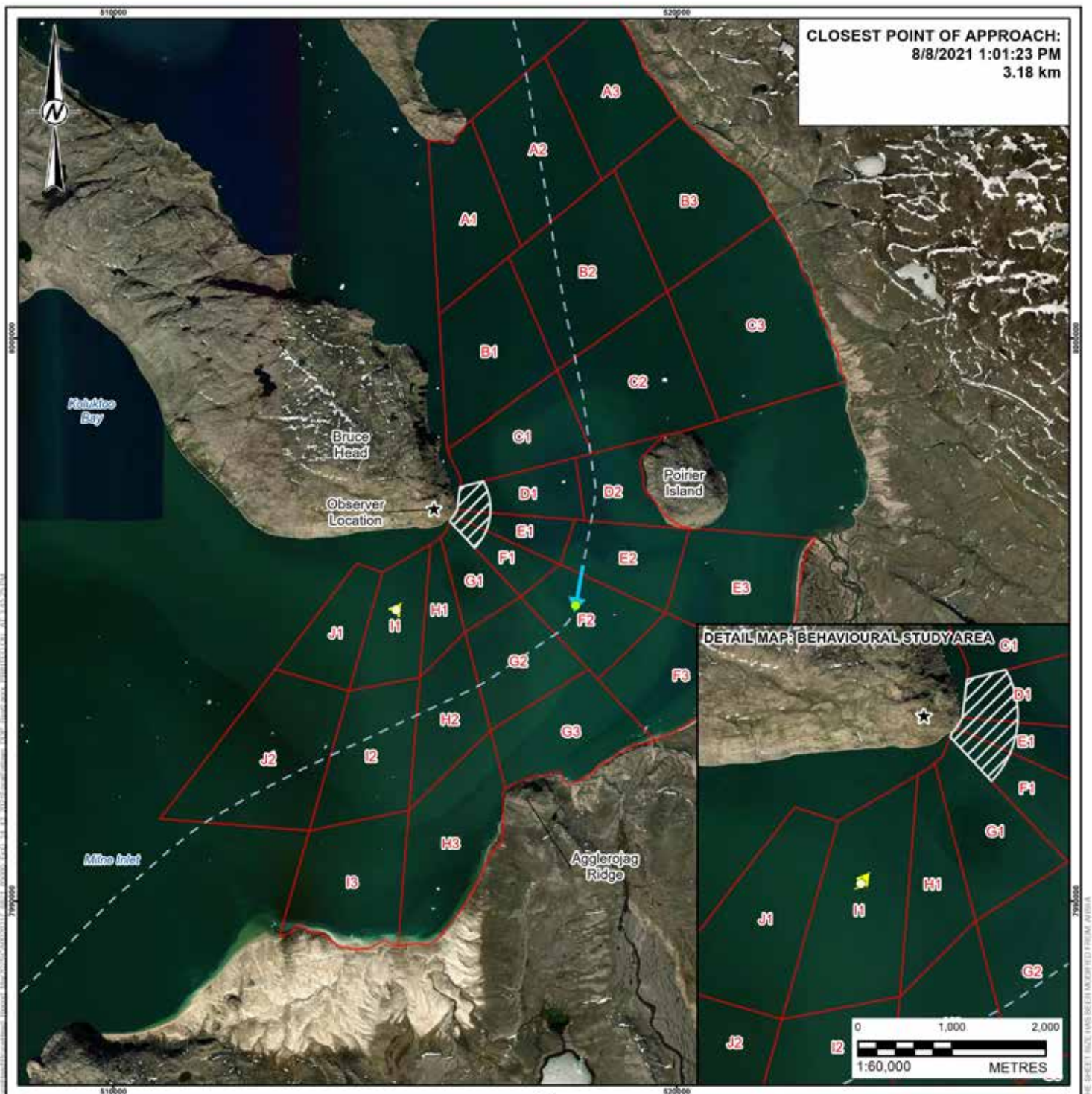
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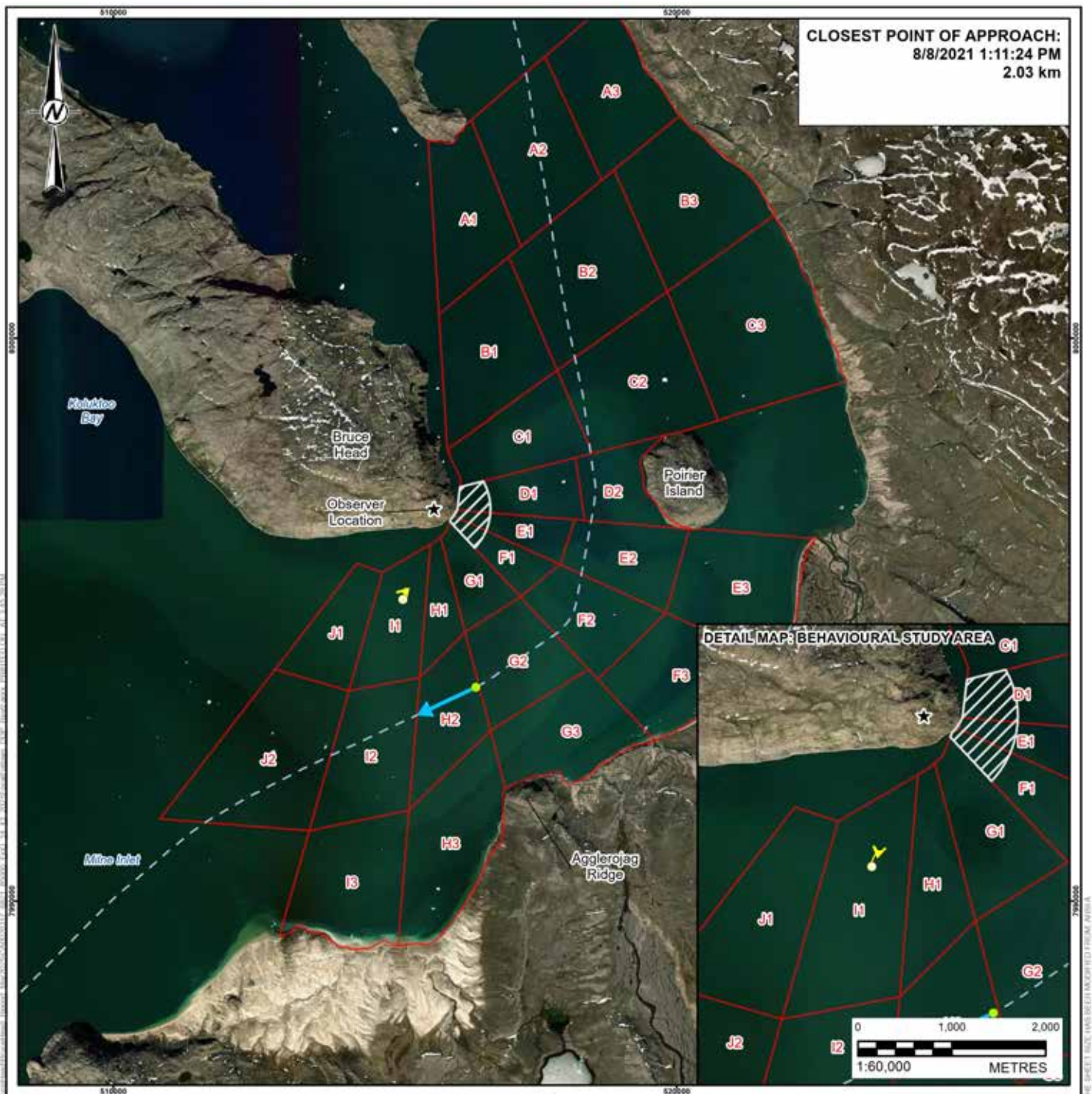
PROJECT NO.
CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-23





LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 49 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN RUBY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 49 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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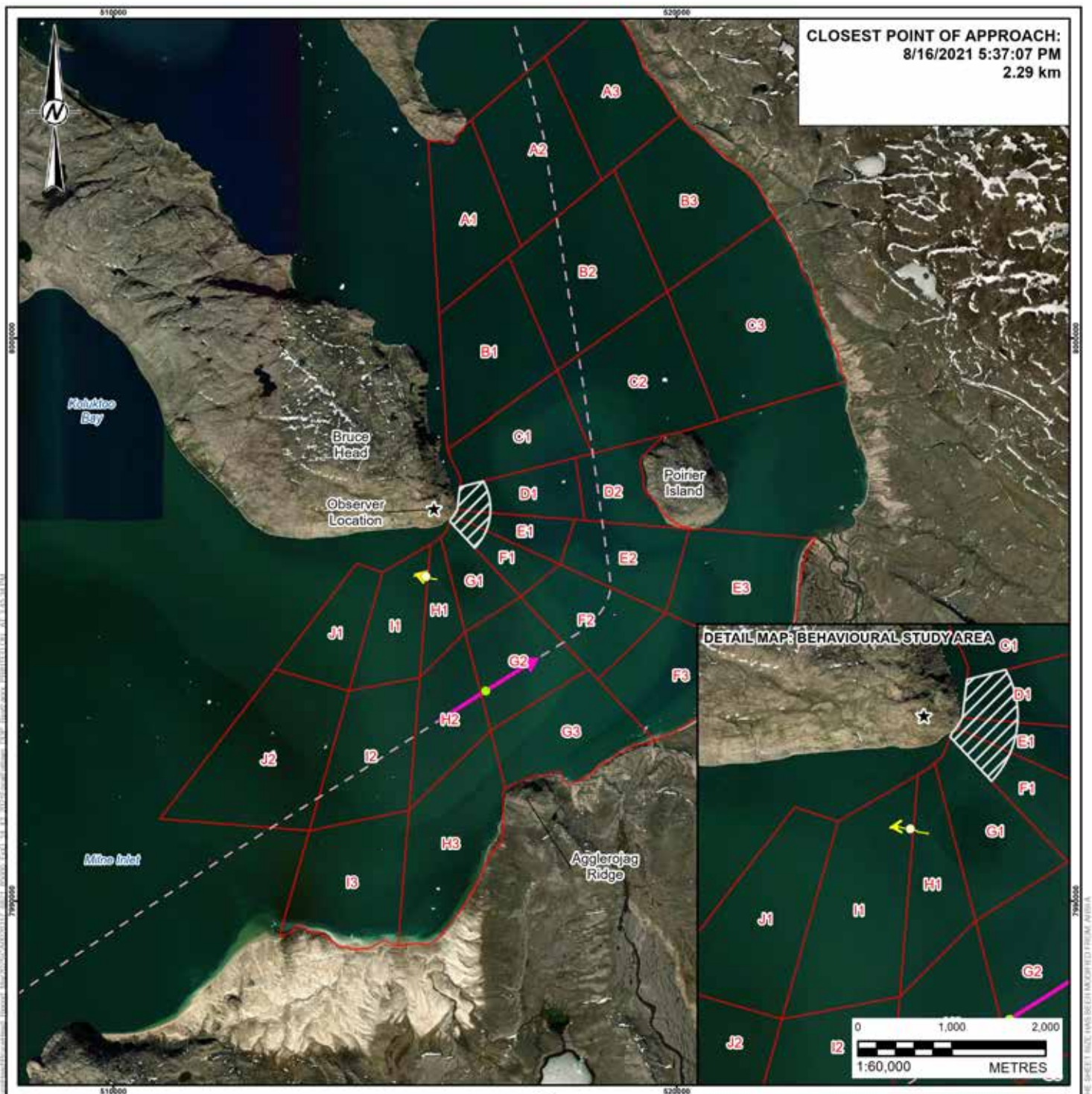
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CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-25



CLOSEST POINT OF APPROACH:
8/16/2021 5:37:07 PM
2.29 km

DETAIL MAP: BEHAVIOURAL STUDY AREA

0 1,000 2,000
1:60,000 METRES

LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 85 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA

0 2.5 5
1:100,000 KILOMETRES

REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 85 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT

wsp

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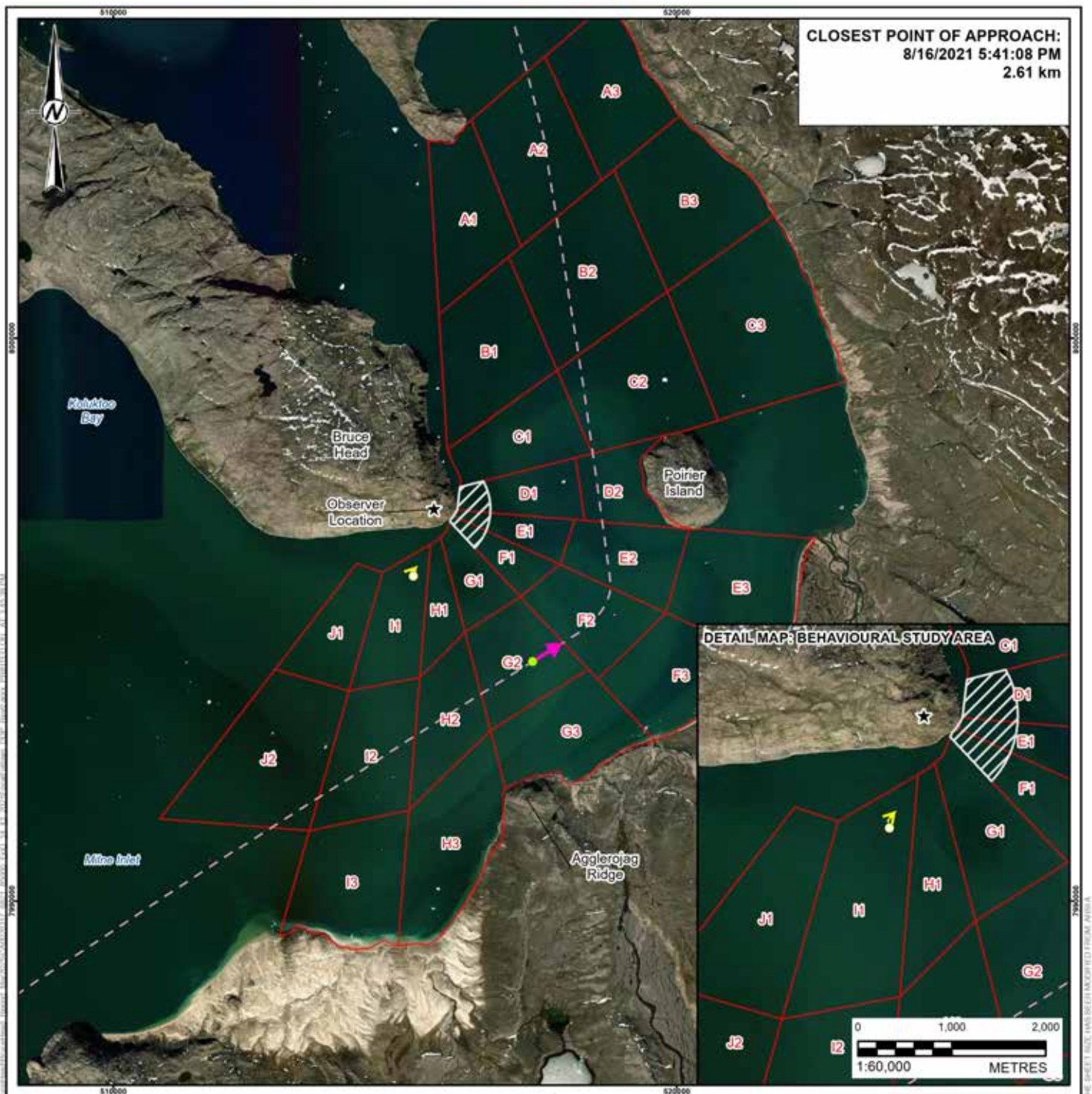
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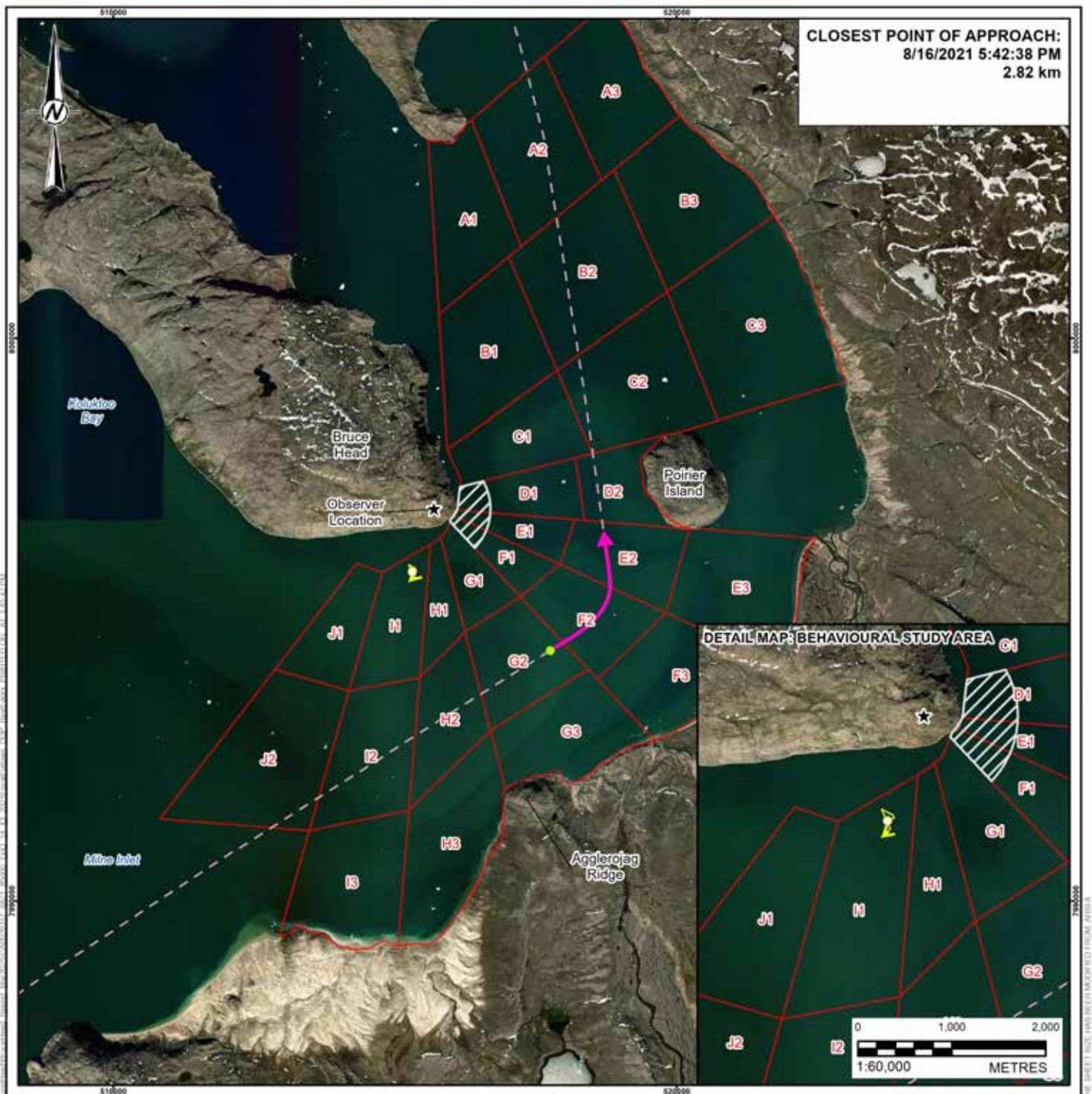
PROJECT NO.
CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-26





LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 87 (2021)
- ACTIVE VESSEL TRANSIT (BOTNICA)
- NON-ACTIVE VESSEL TRANSIT (BOTNICA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 87 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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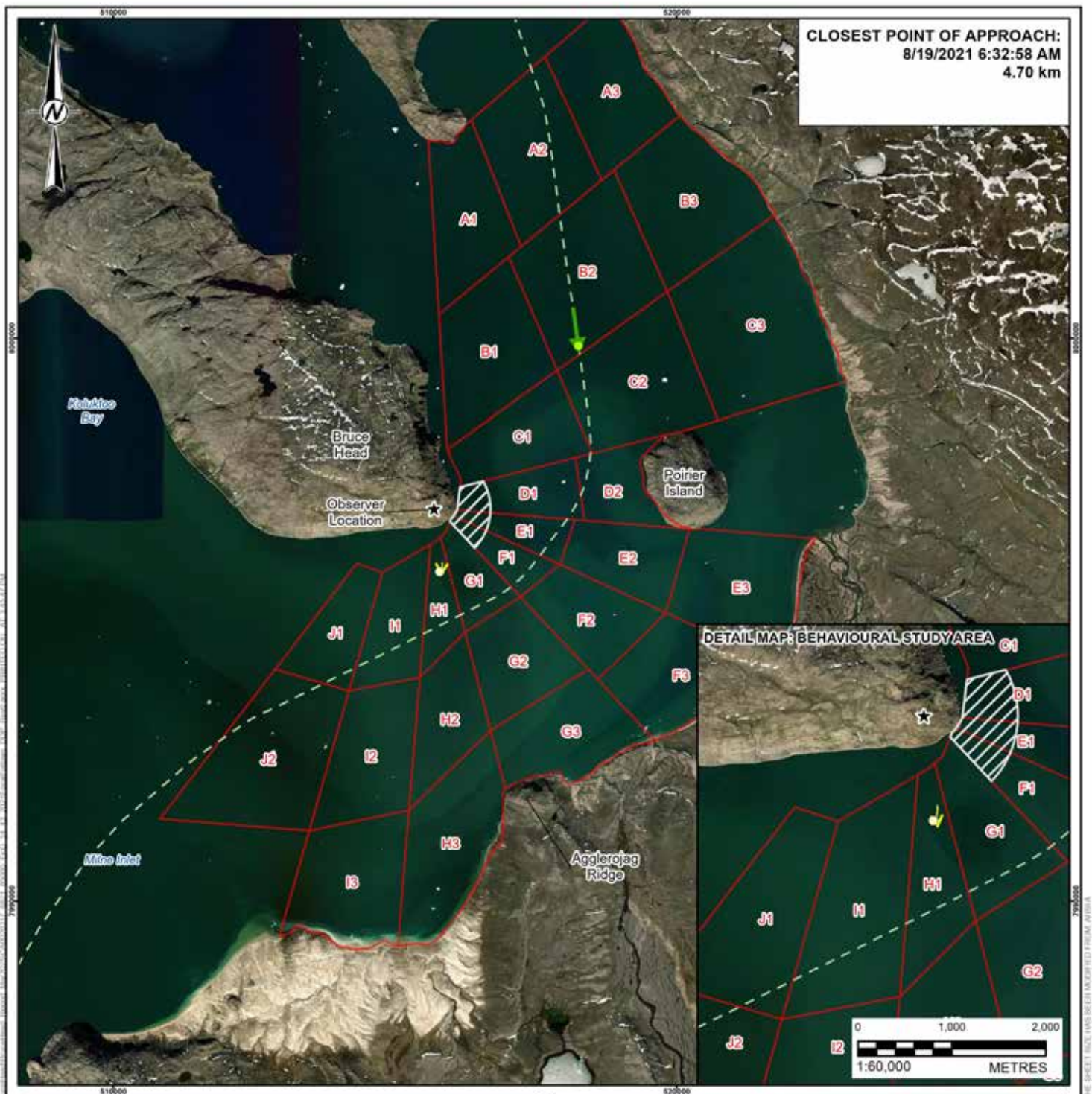
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85000

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FIGURE
D-28



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 114 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 114 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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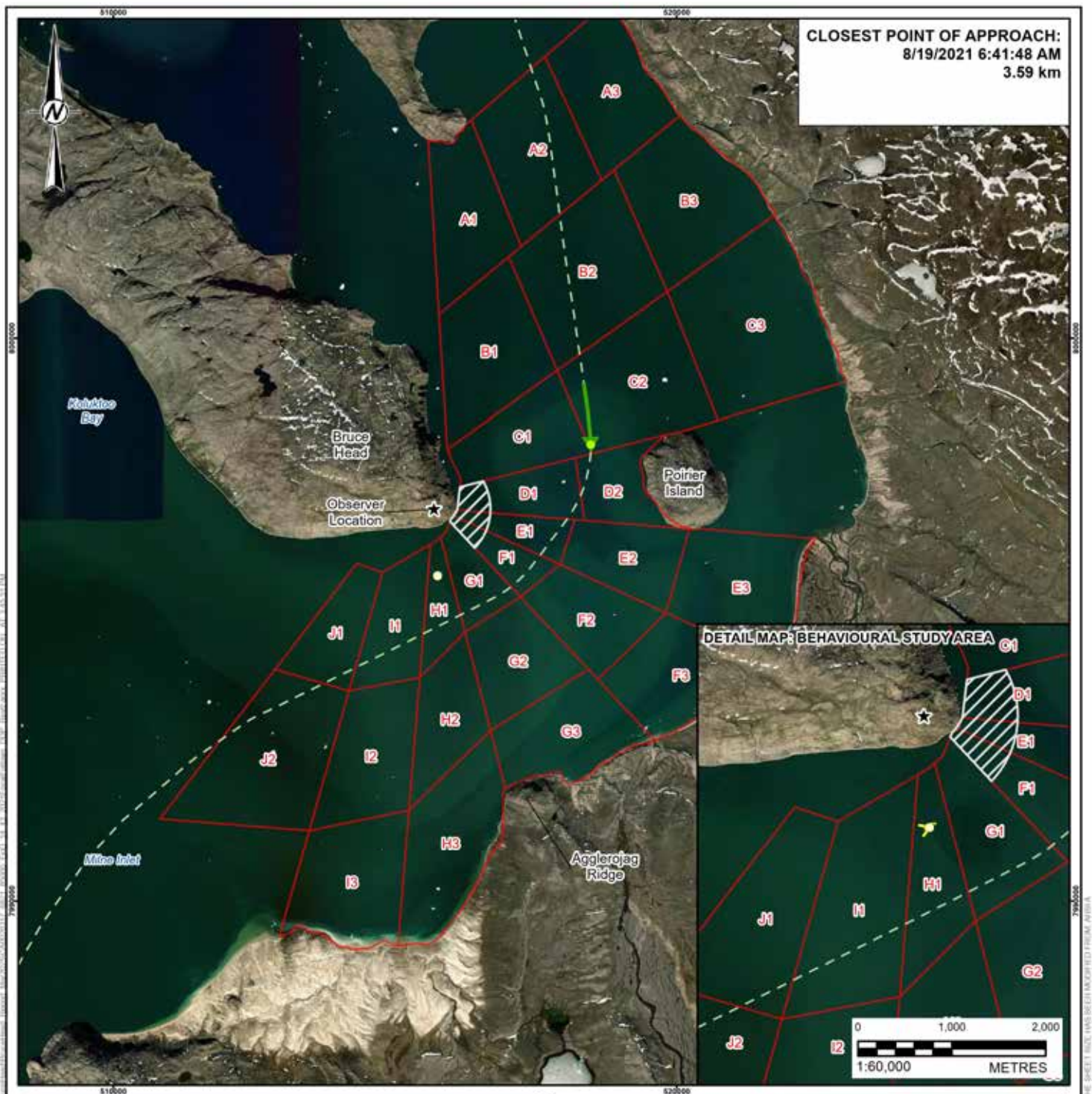
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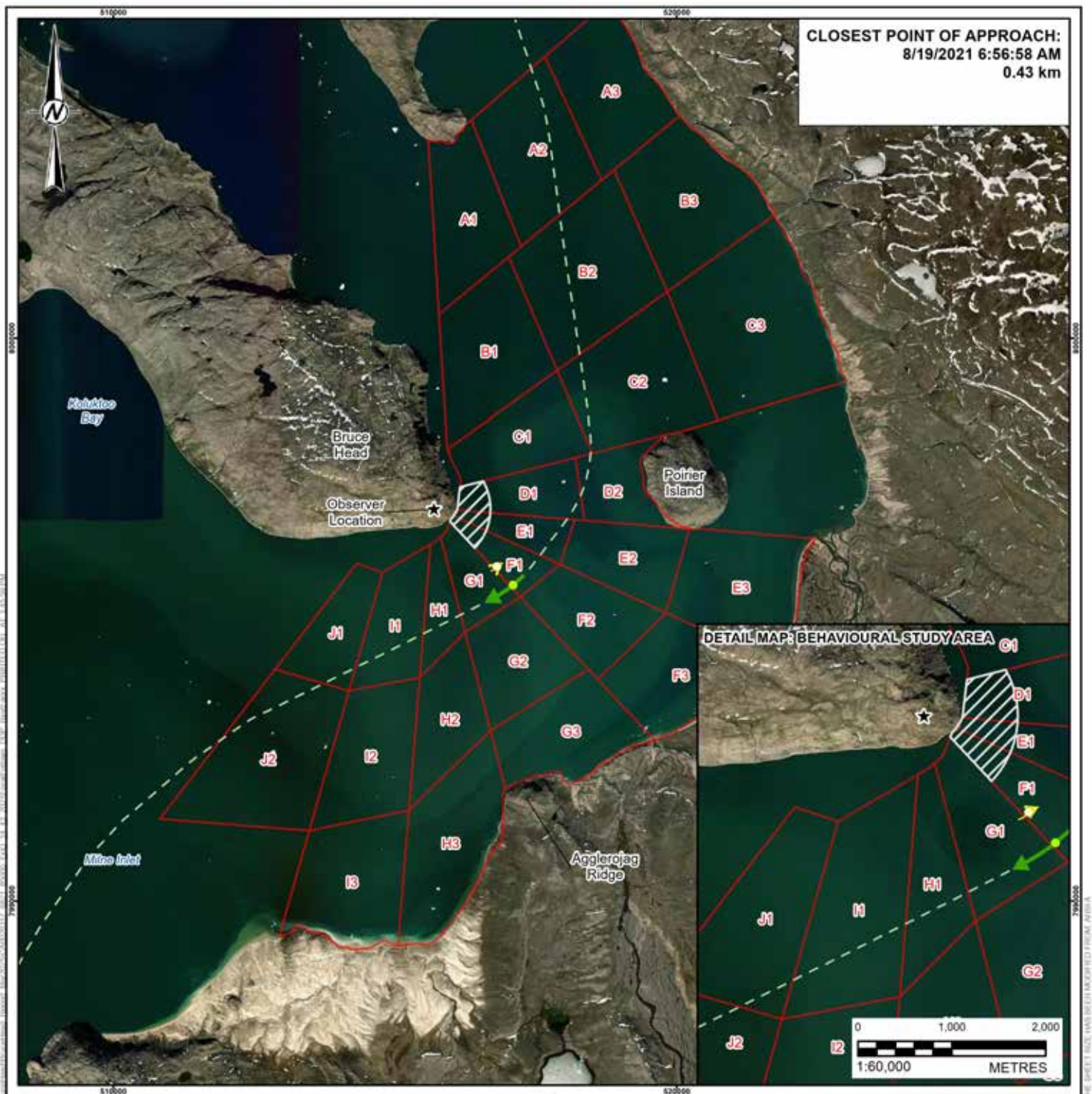
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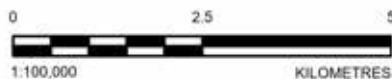
FIGURE
D-29





LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 117 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 117 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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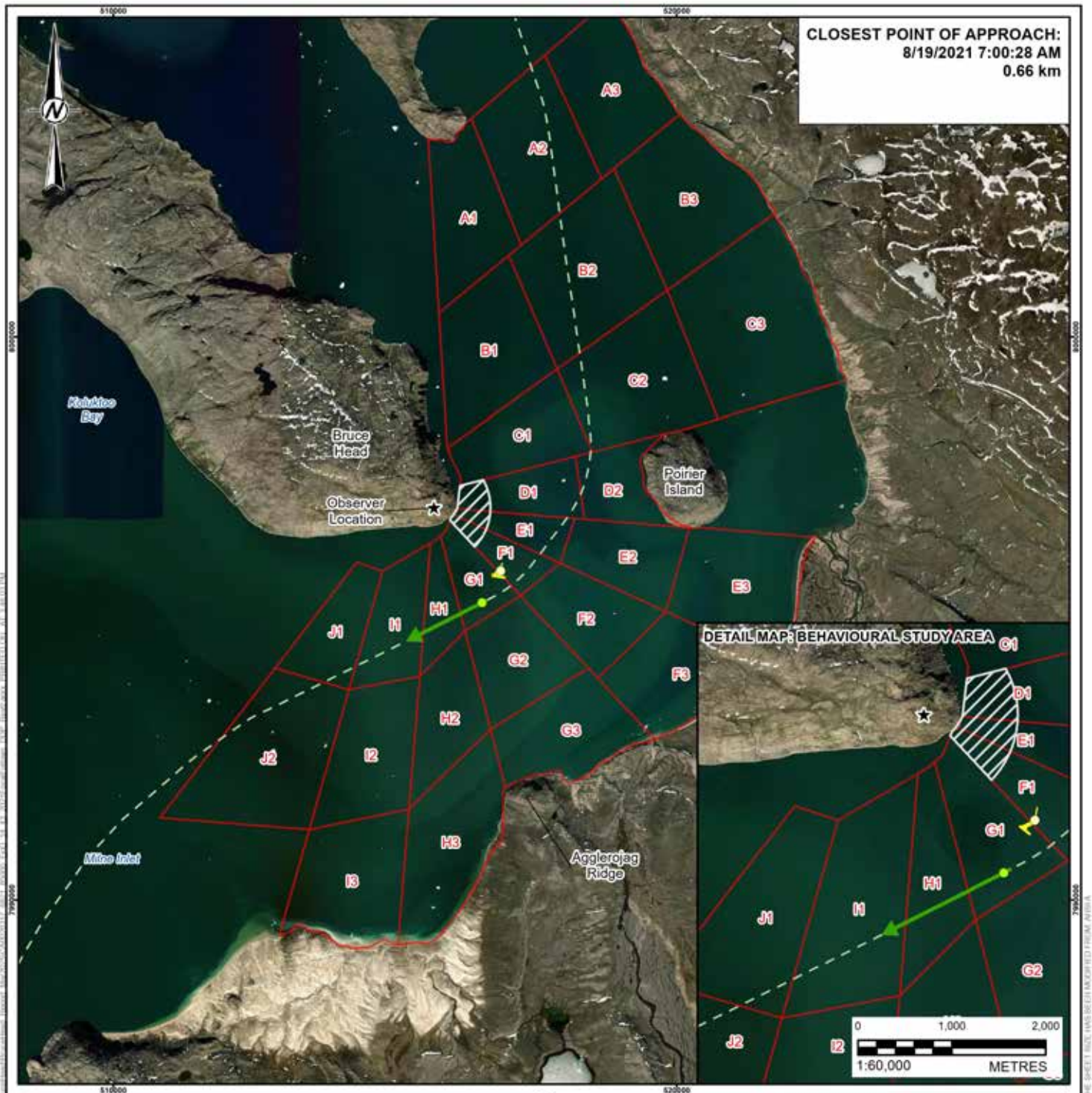
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CA0026317.6821

CONTROL
85000

REV.
0

FIGURE
D-32



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 118 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 118 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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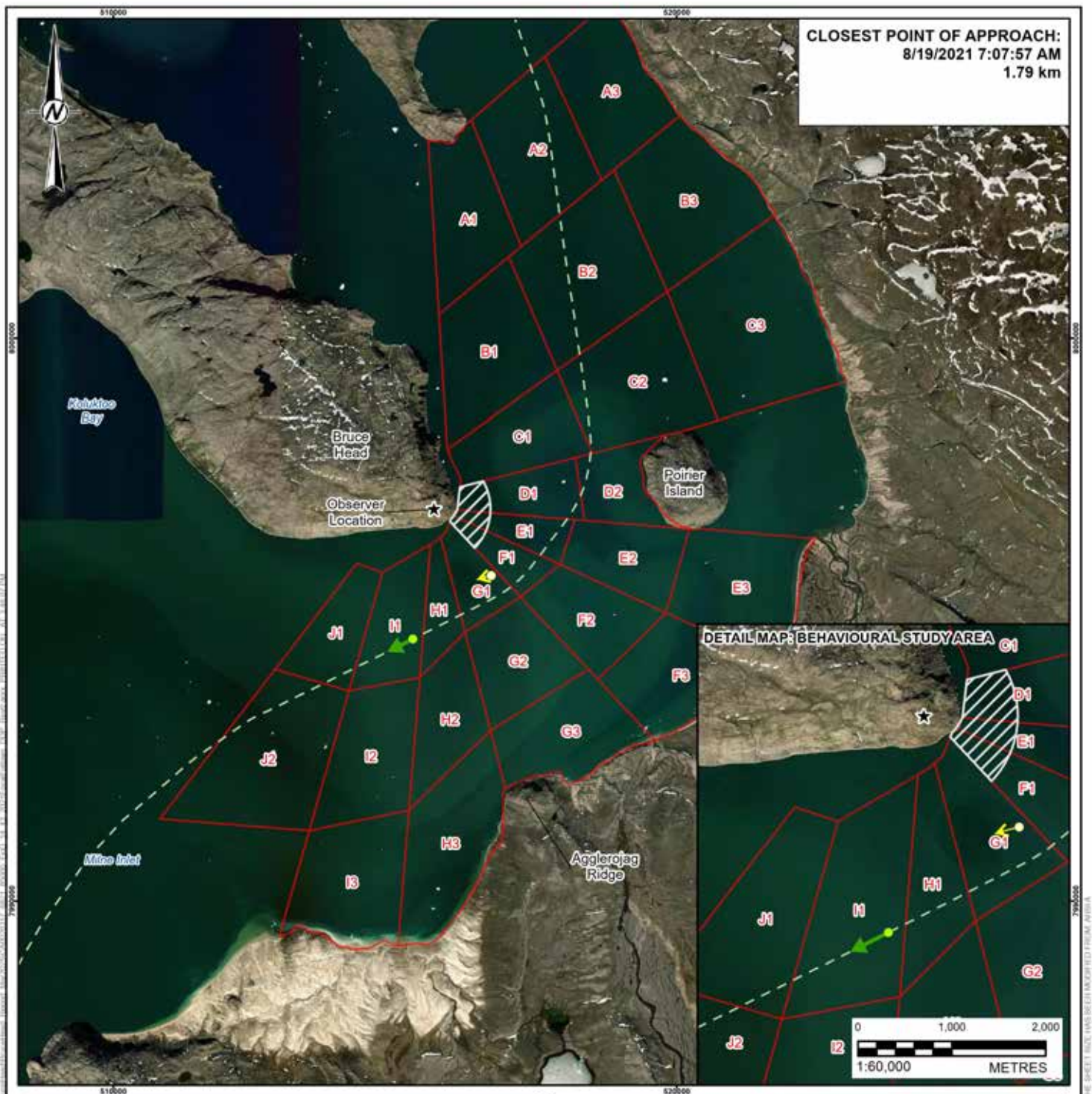
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85000

REV.
0

FIGURE
D-33



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 119 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 119 (2021) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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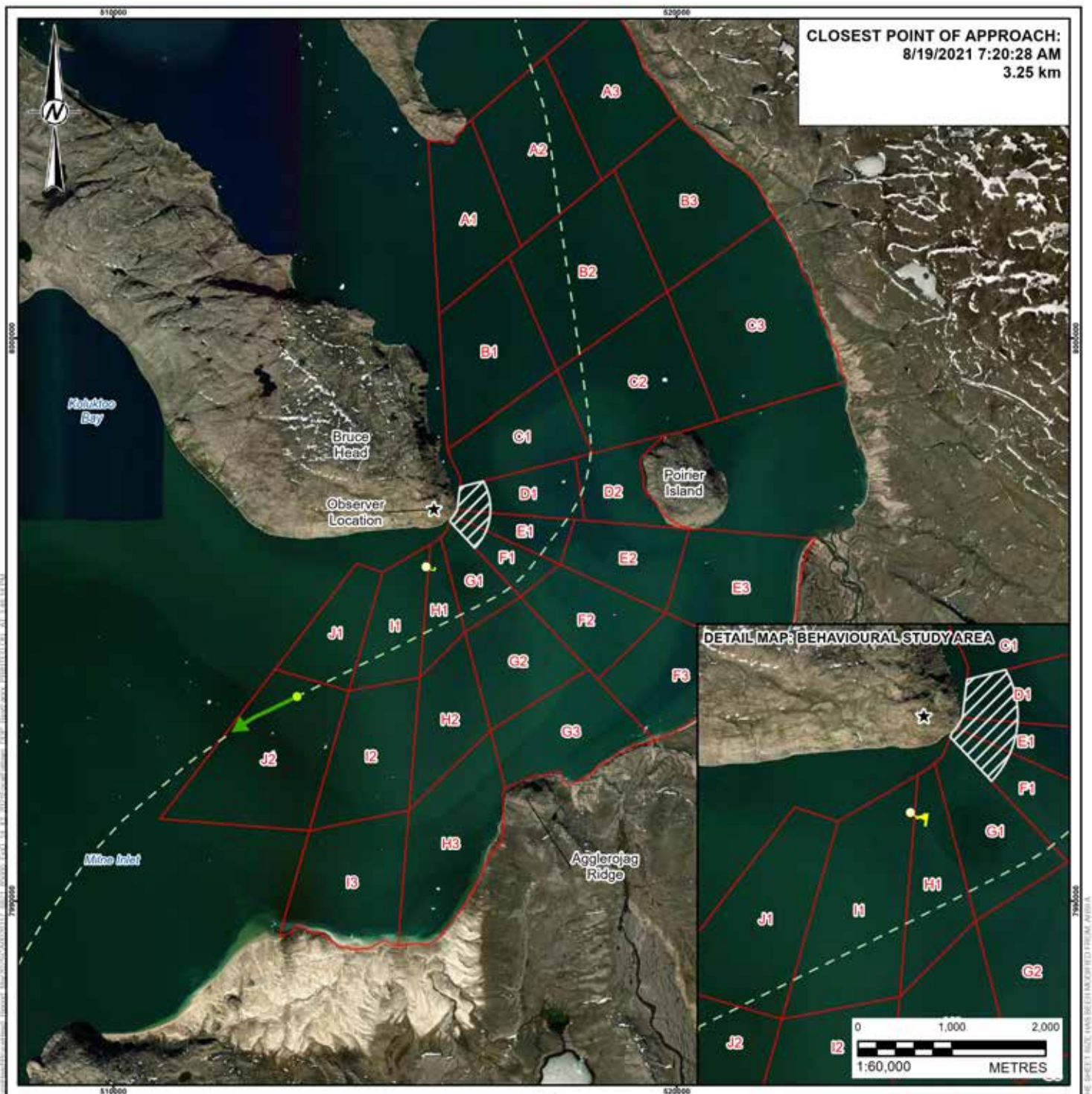
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FIGURE
D-34



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 121 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 121 (2021) AND ACTIVE VESSEL TRANSIT

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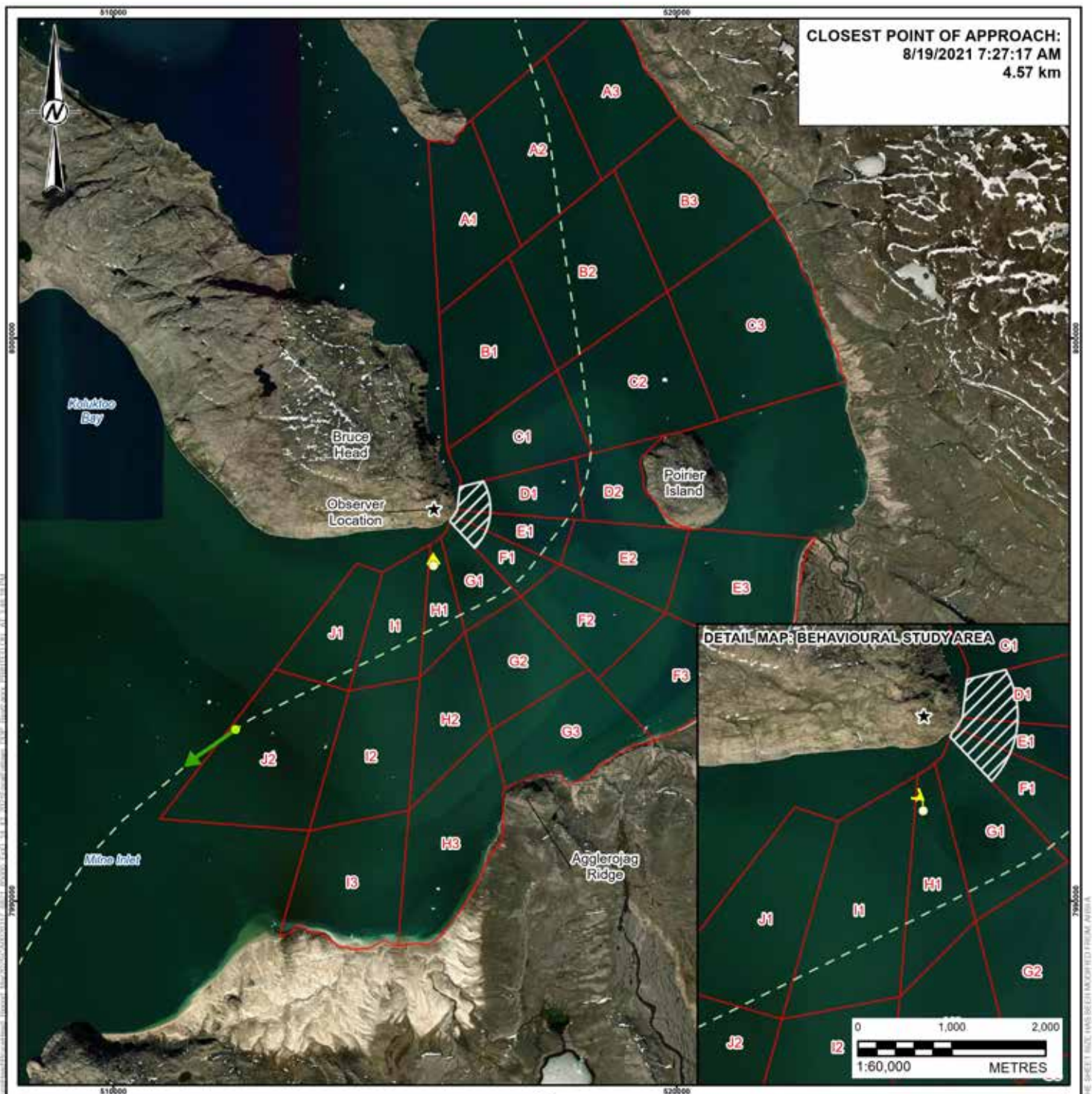
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FIGURE
D-36



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 122 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN FROST)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 122 (2021) AND ACTIVE VESSEL TRANSIT

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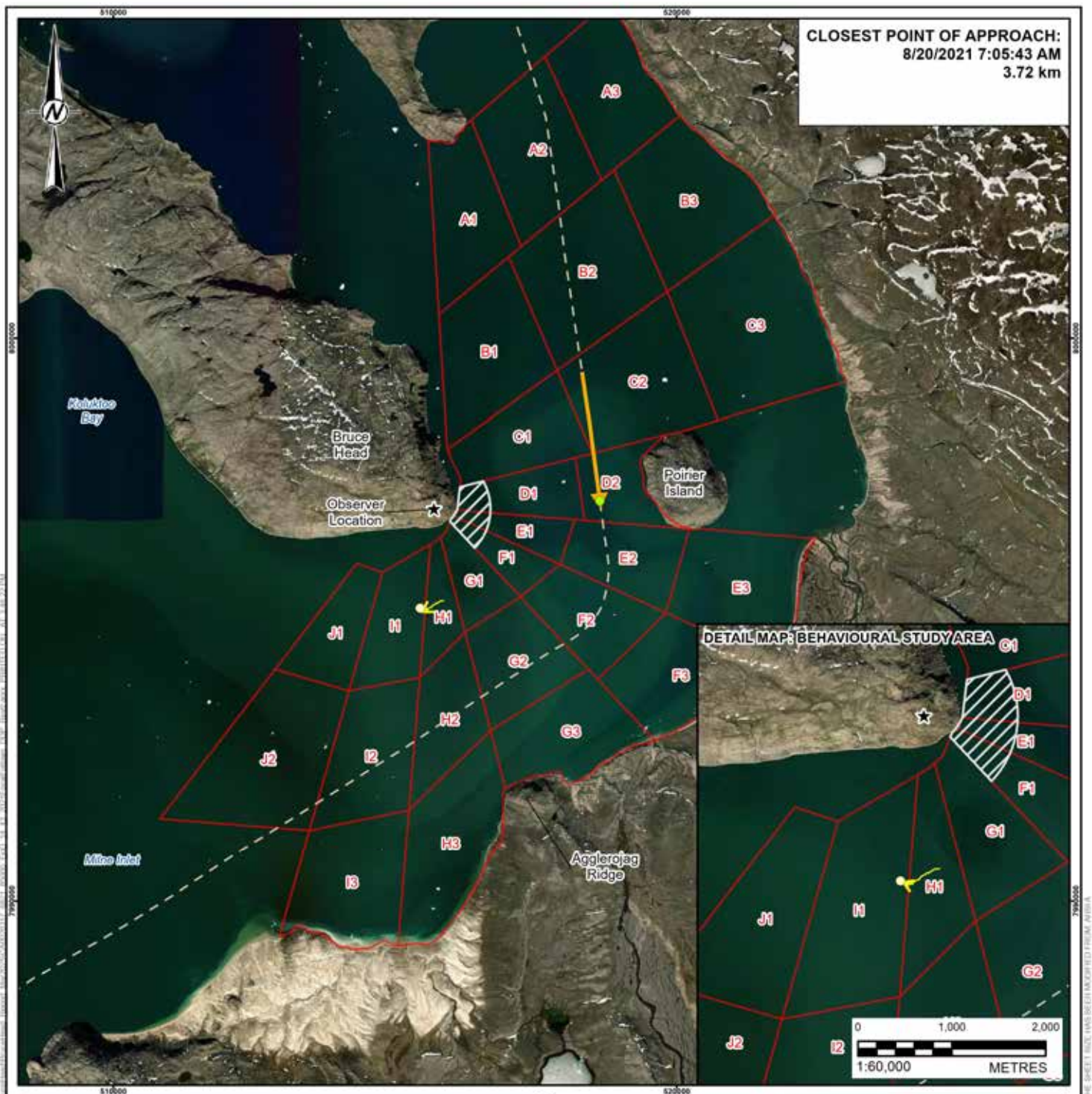
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FIGURE
D-37



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 139 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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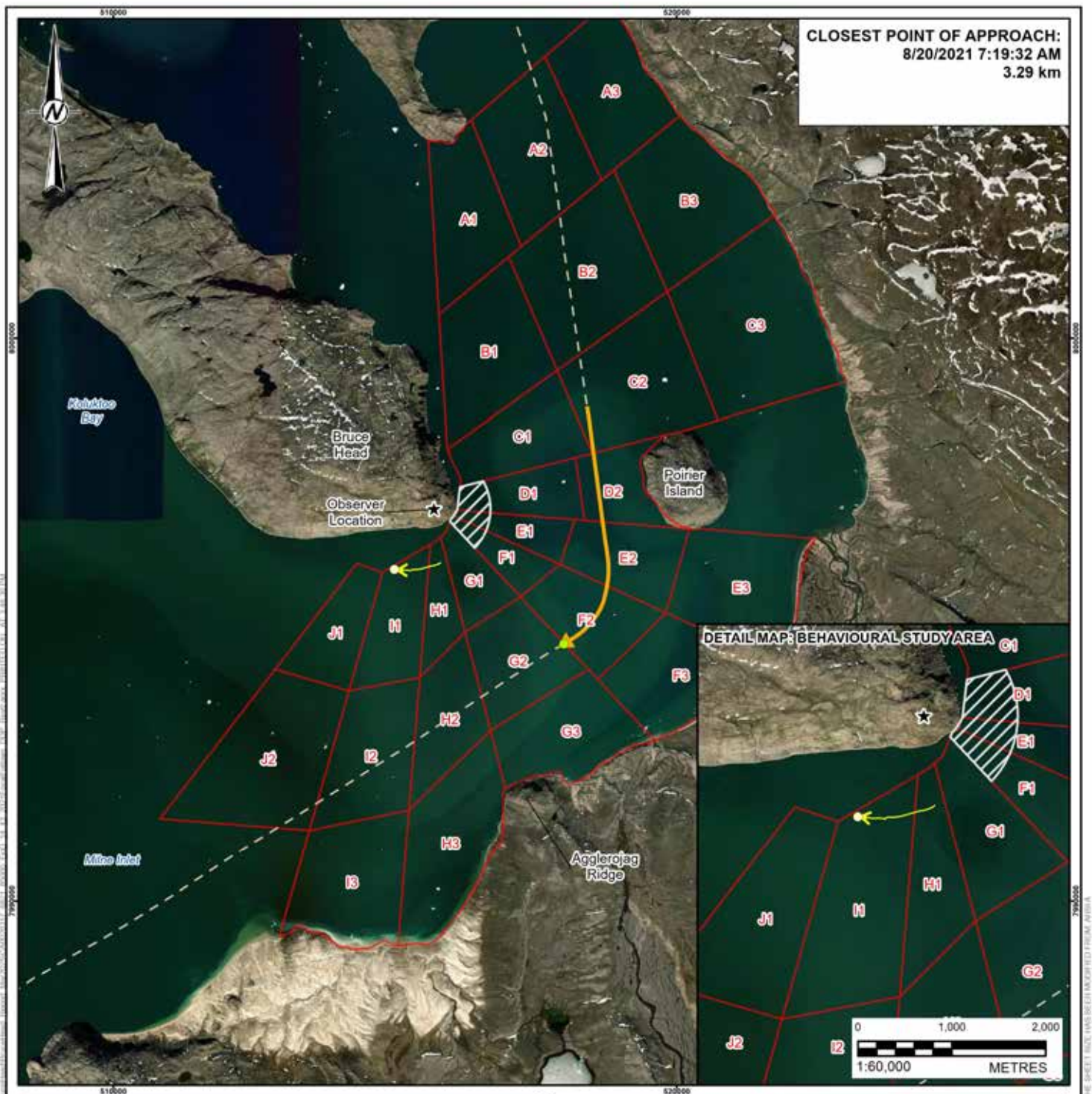
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FIGURE
D-38



CLOSEST POINT OF APPROACH:
8/20/2021 7:19:32 AM
3.29 km

LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 141 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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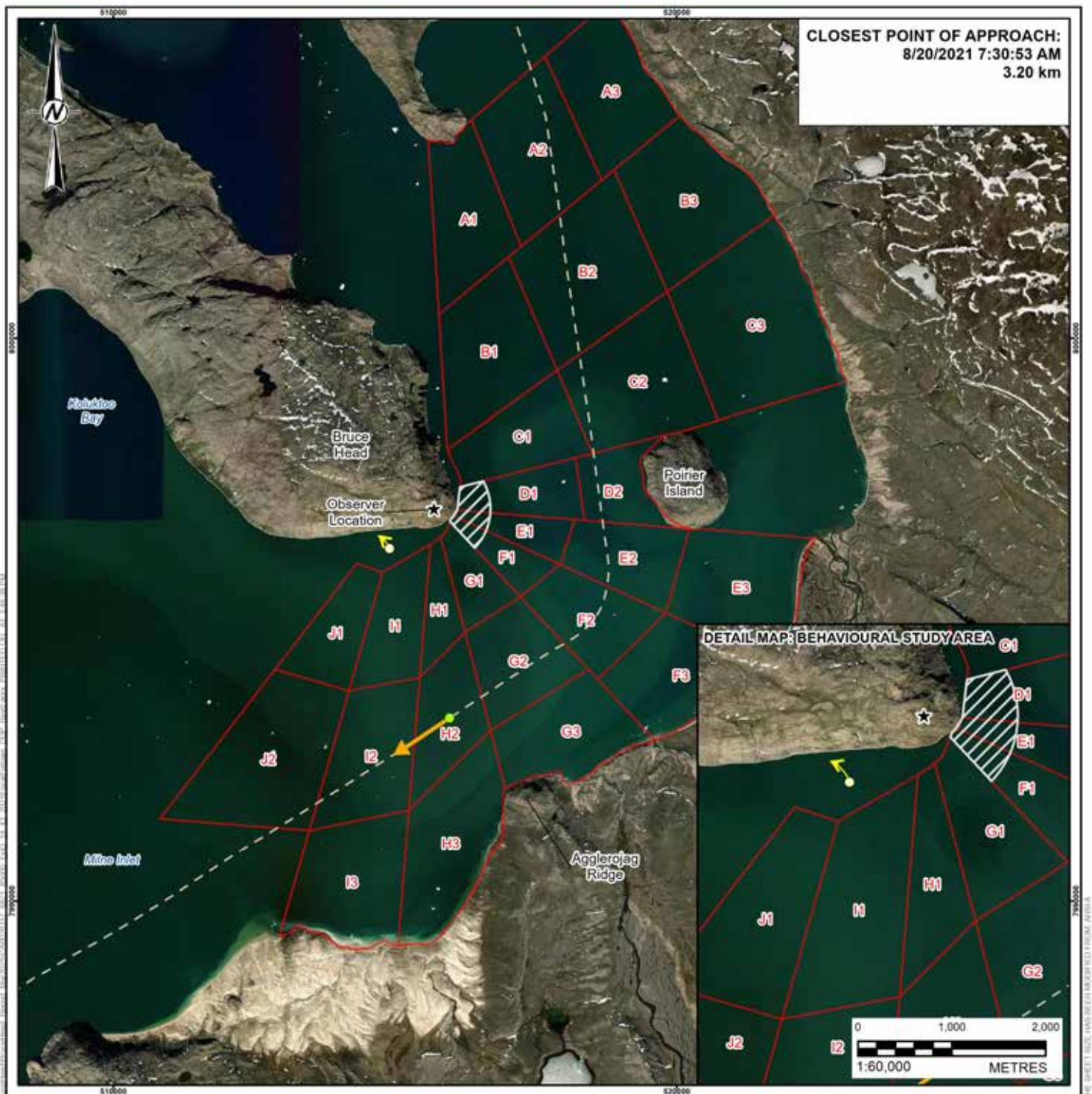
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FIGURE
D-40



LEGEND

- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 143 (2021)
- ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ROSE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 143 (2021) AND ACTIVE VESSEL TRANSIT

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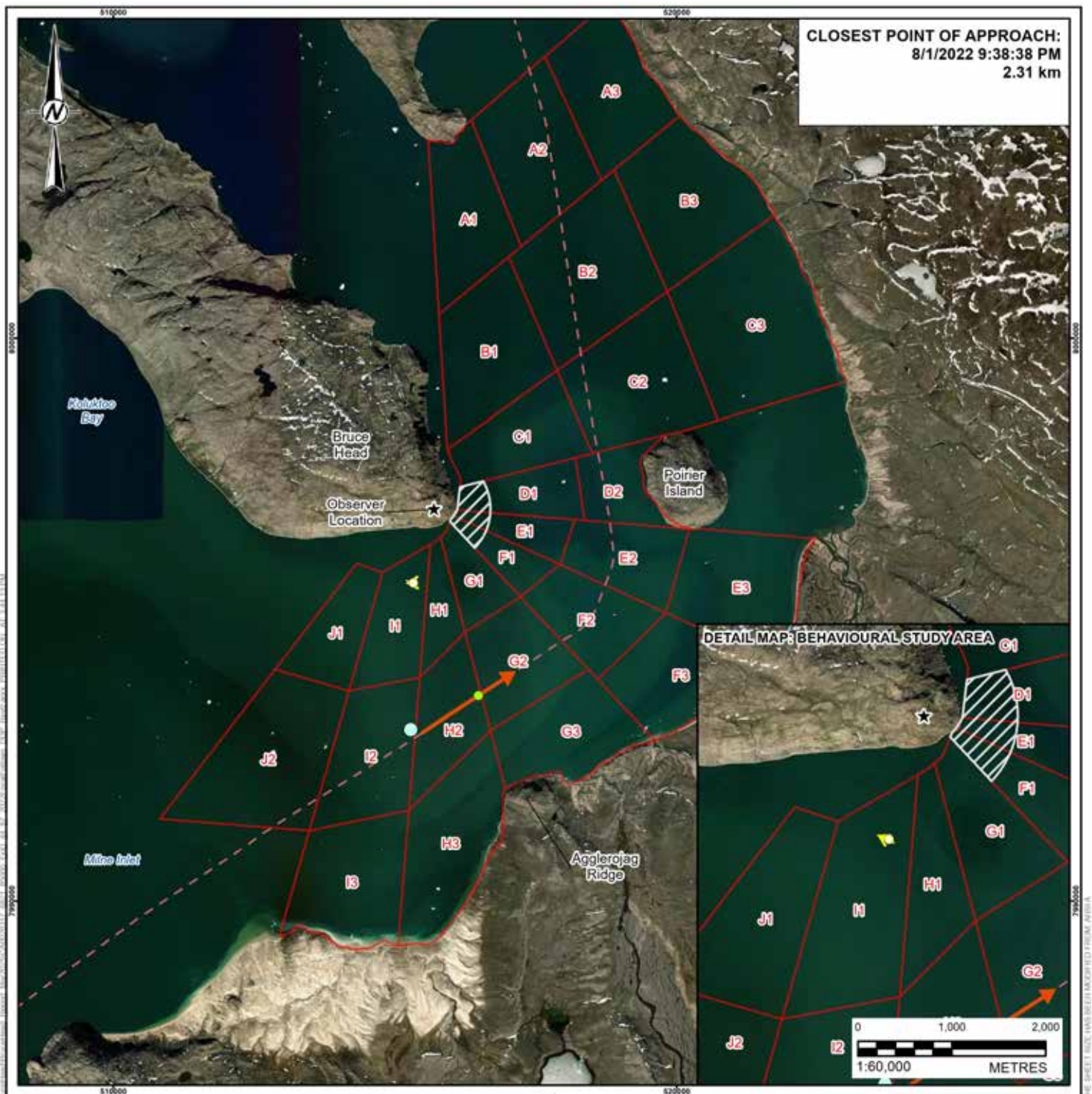
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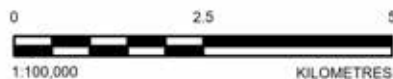
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FIGURE
D-42



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 16 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 16 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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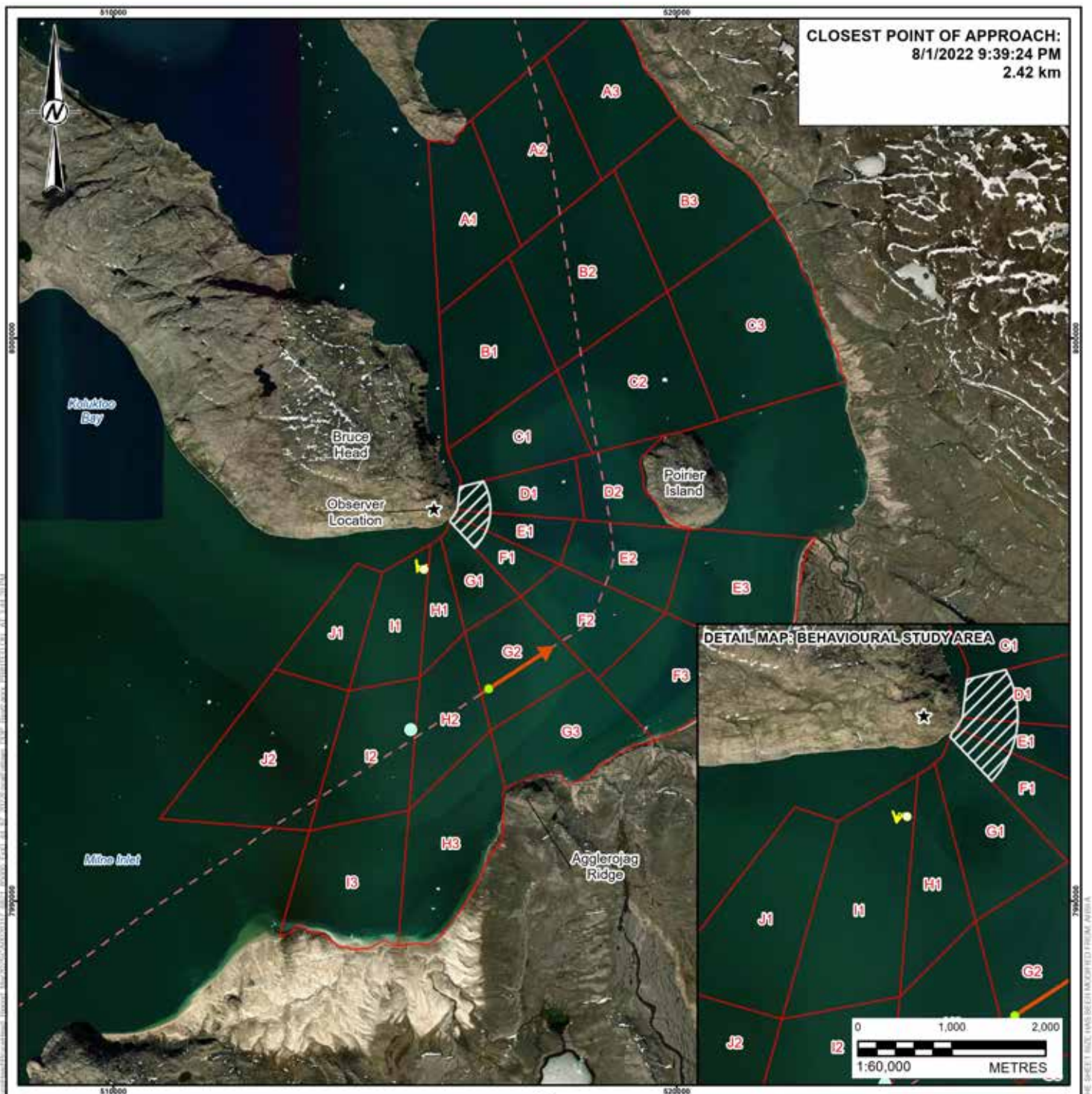
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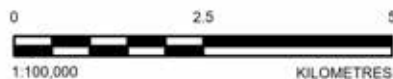
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FIGURE
D-44



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 17 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 17 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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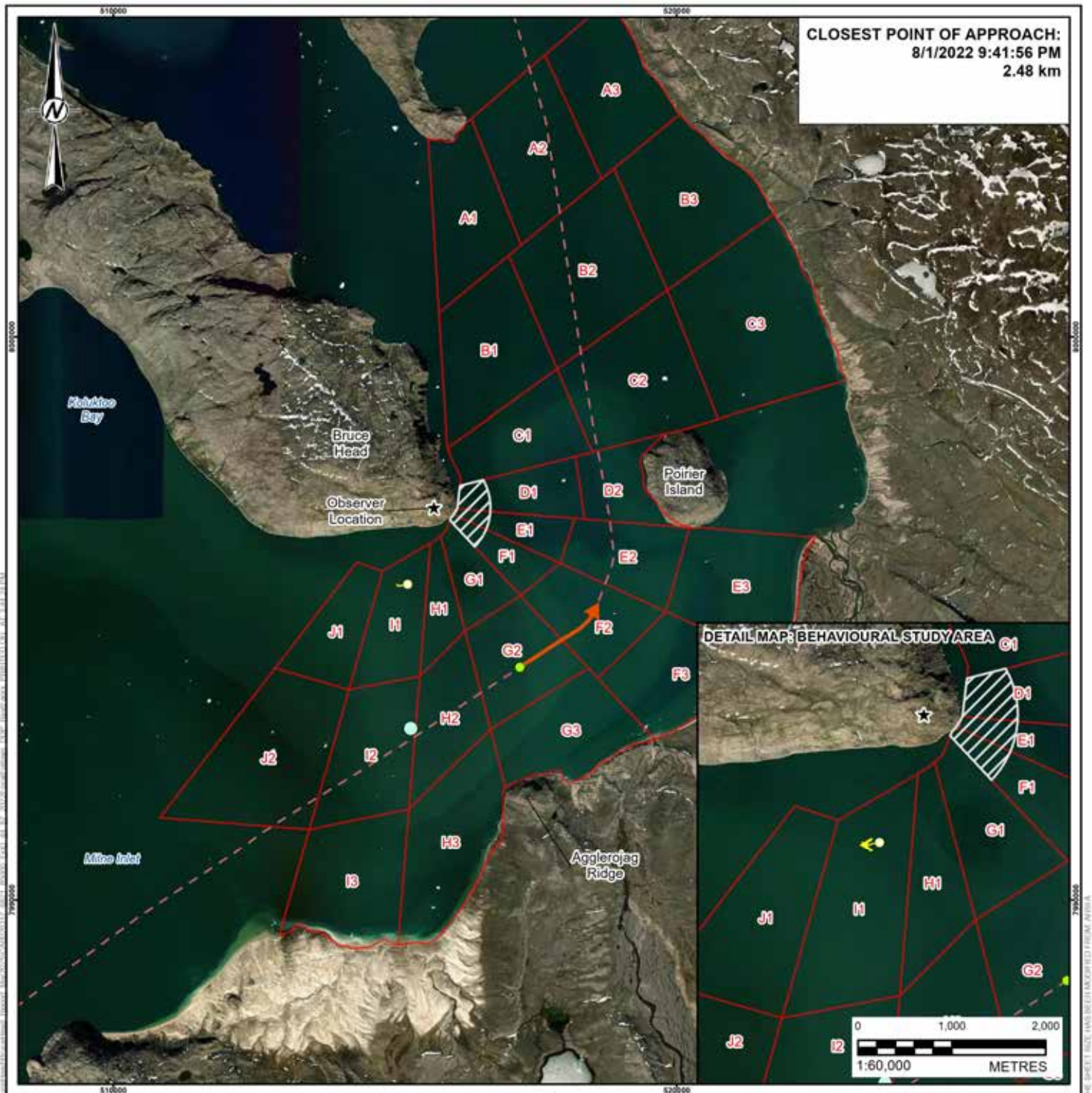
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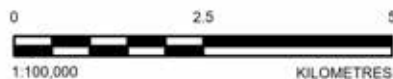
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FIGURE
D-45



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 18 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE

FOCAL FOLLOW 18 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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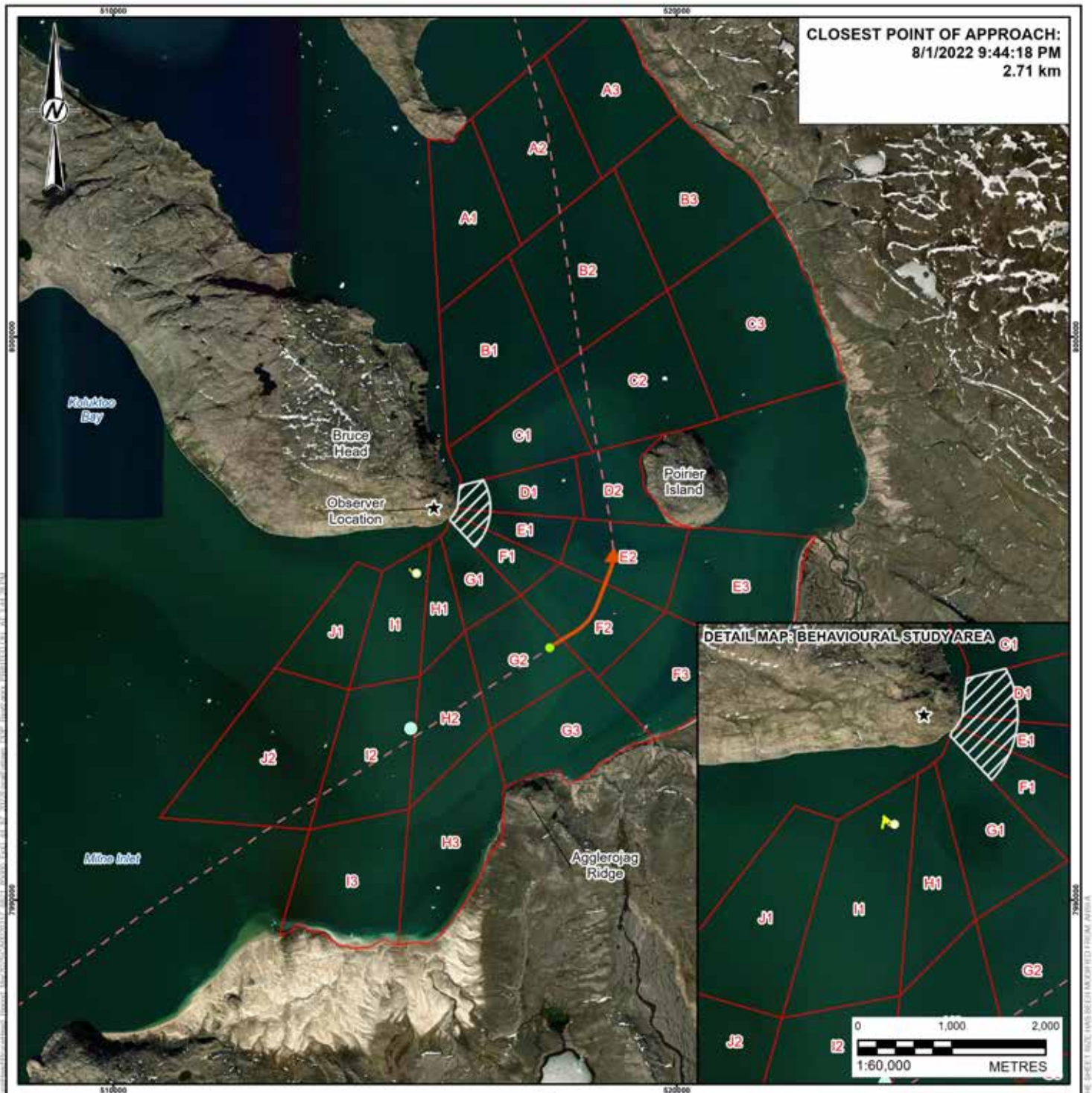
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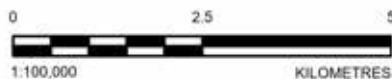
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FIGURE
D-46



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 19 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- NON-ACTIVE VESSEL TRANSIT (NORDIC OLYMPIC)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE

FOCAL FOLLOW 19 (2022) AND ACTIVE VESSEL TRANSIT

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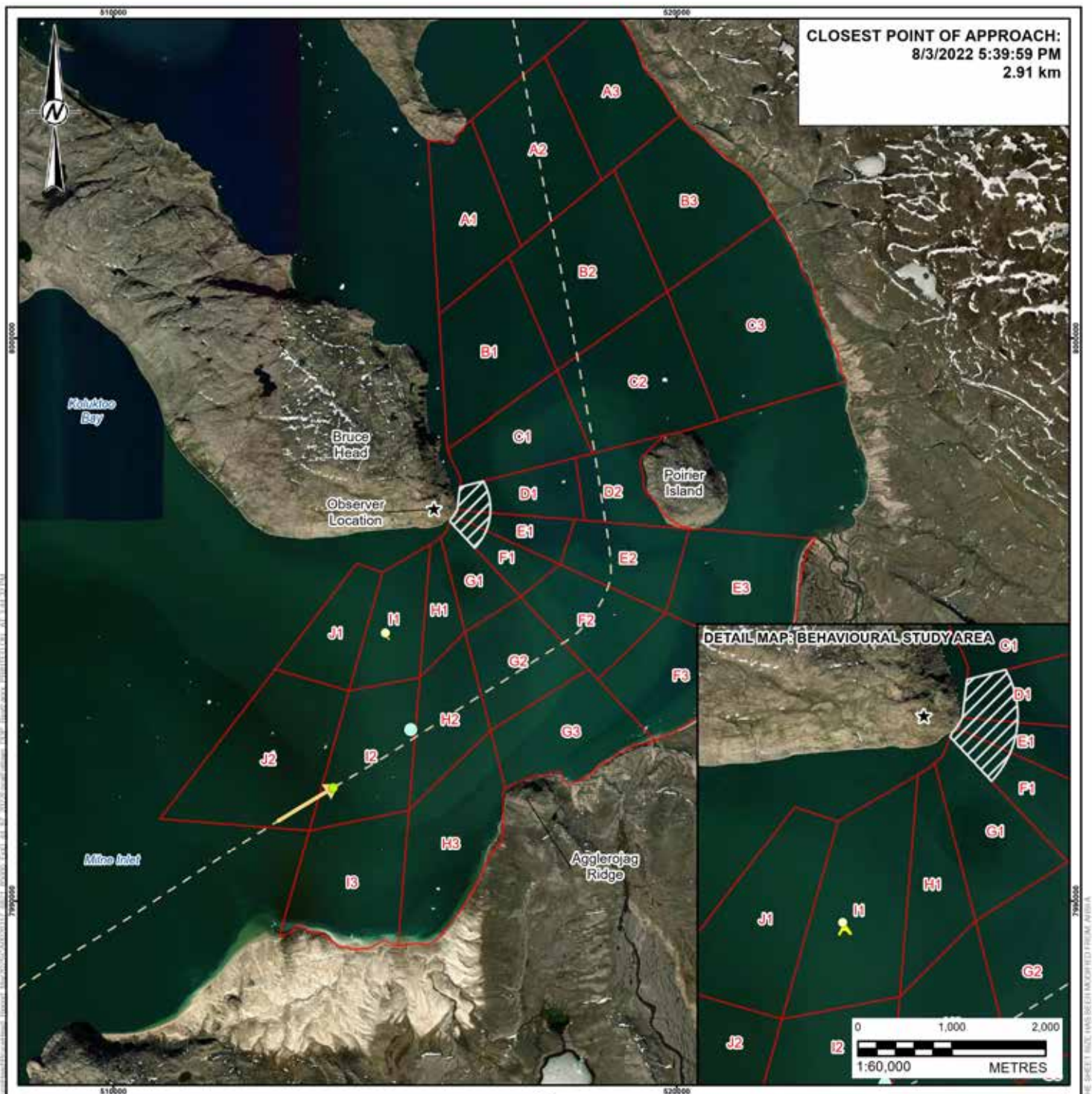
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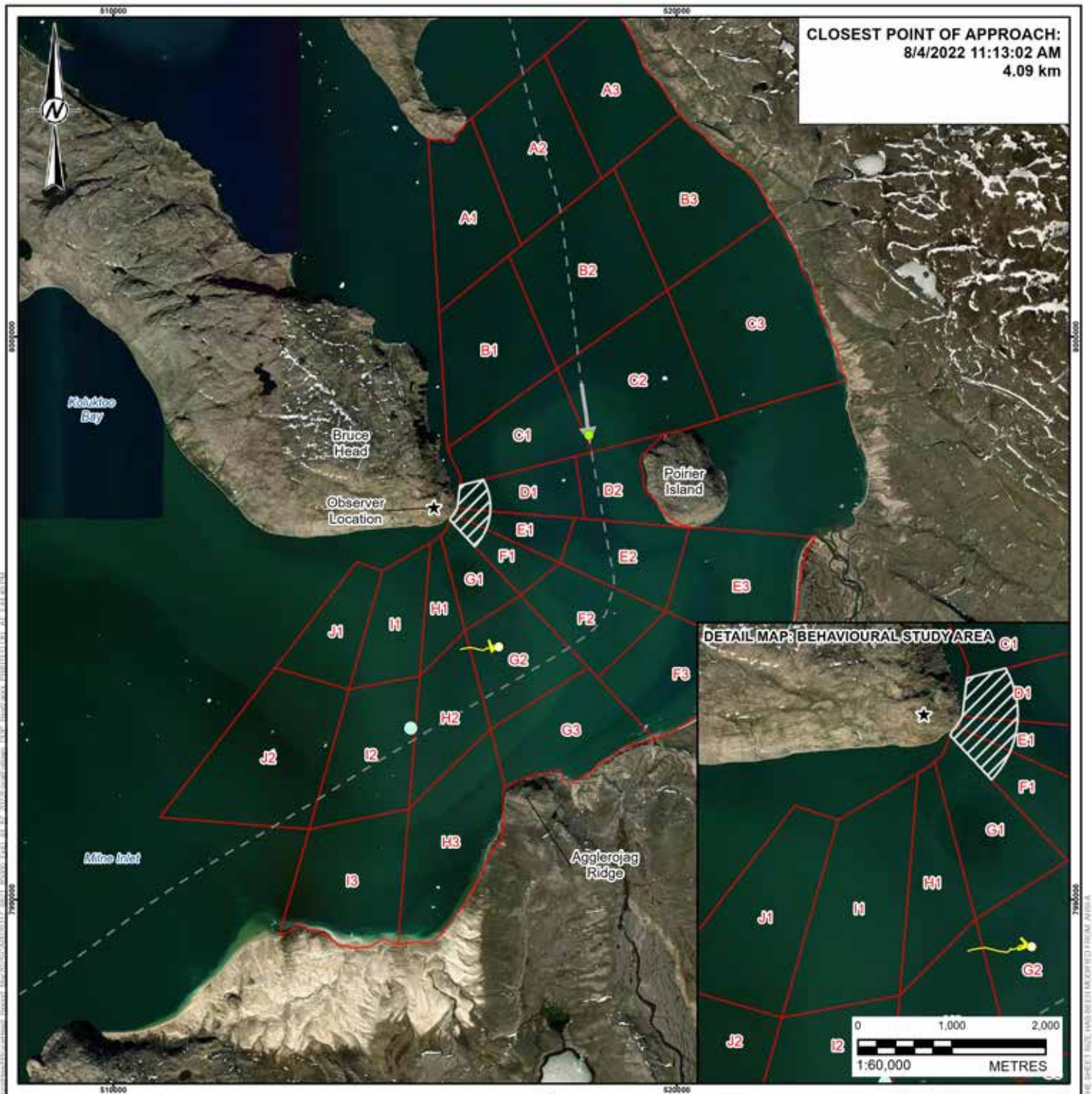
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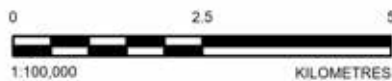
FIGURE
D-47





LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 30 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 30 (2022) AND ACTIVE VESSEL TRANSIT

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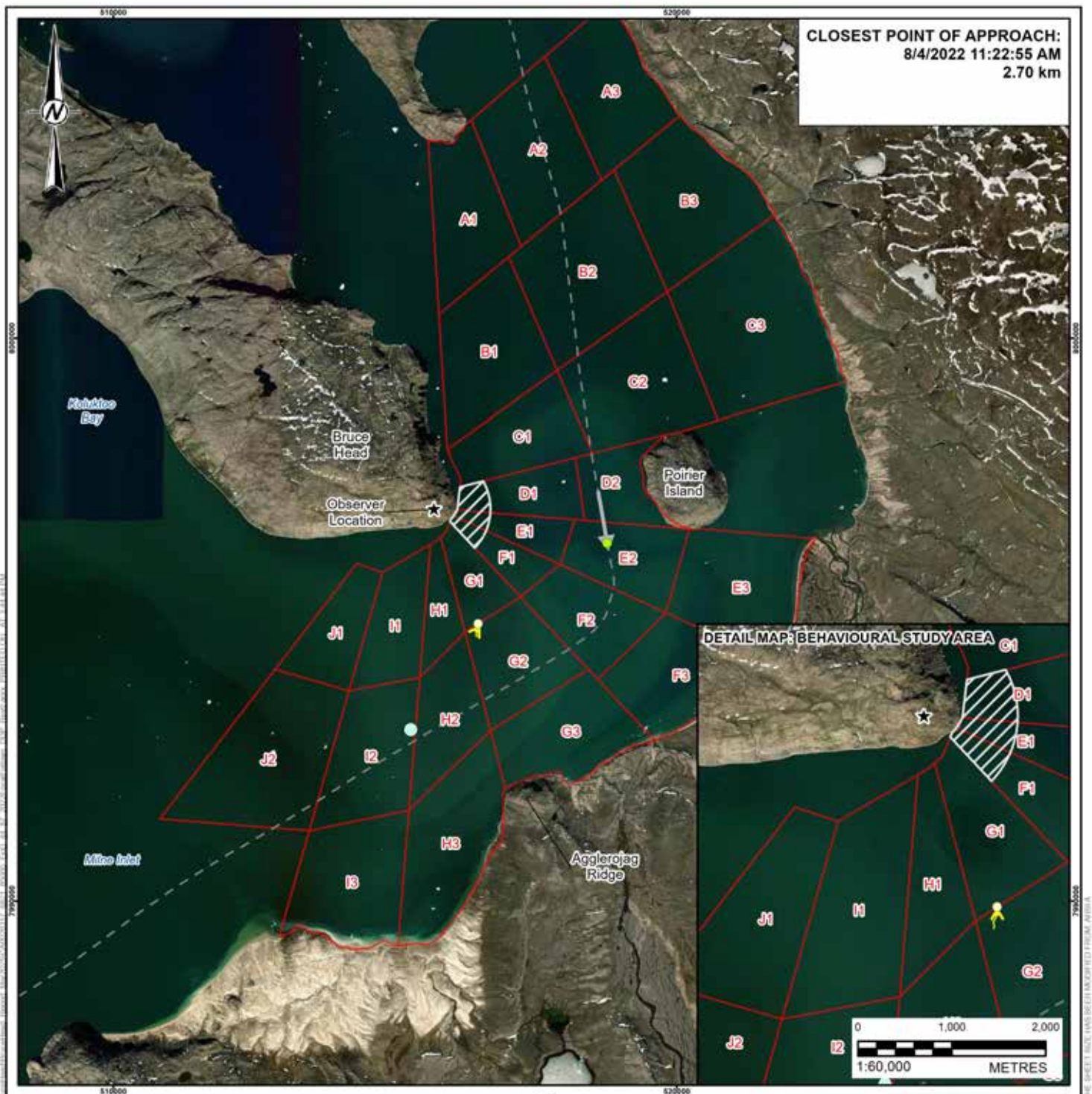
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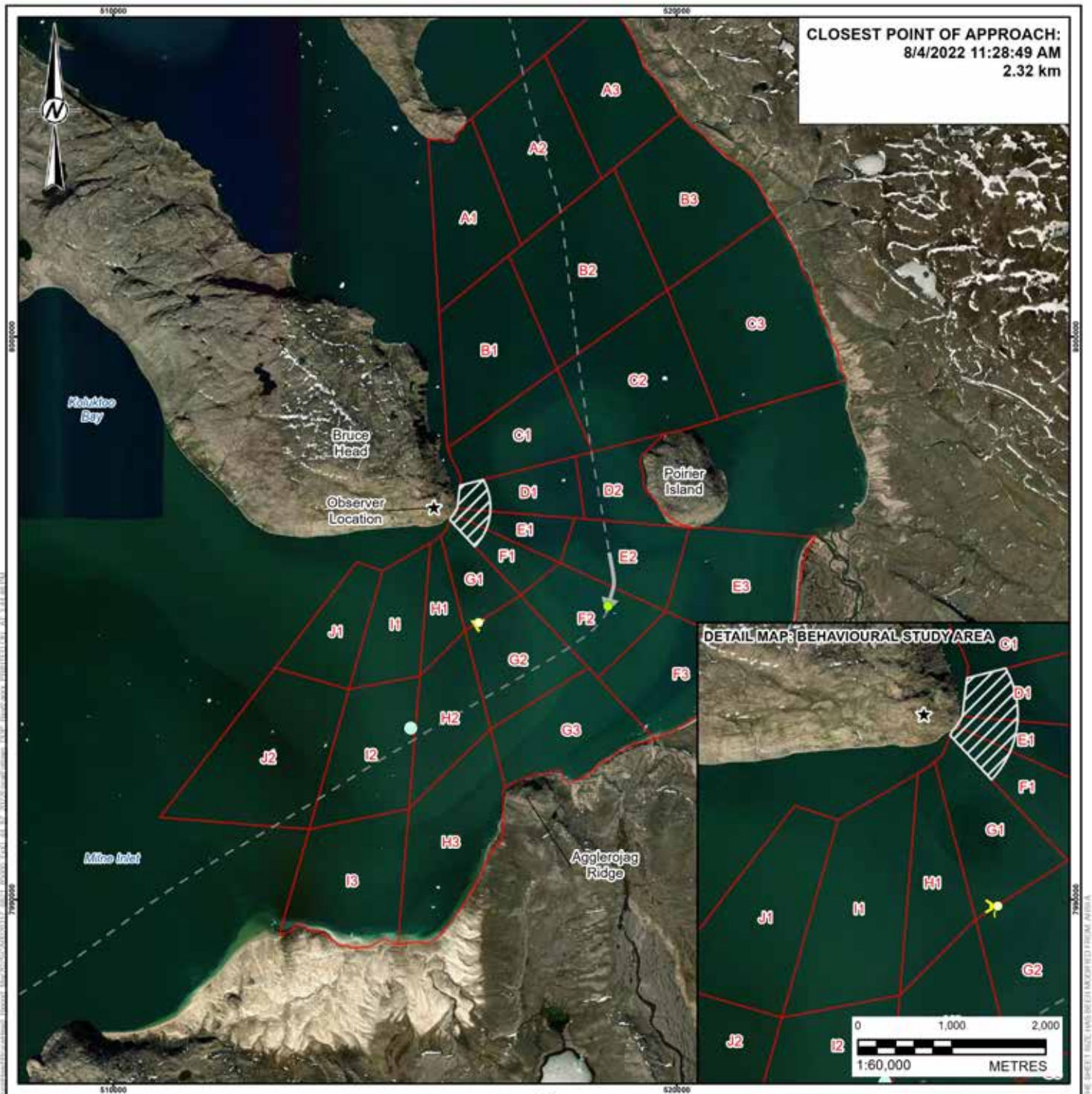
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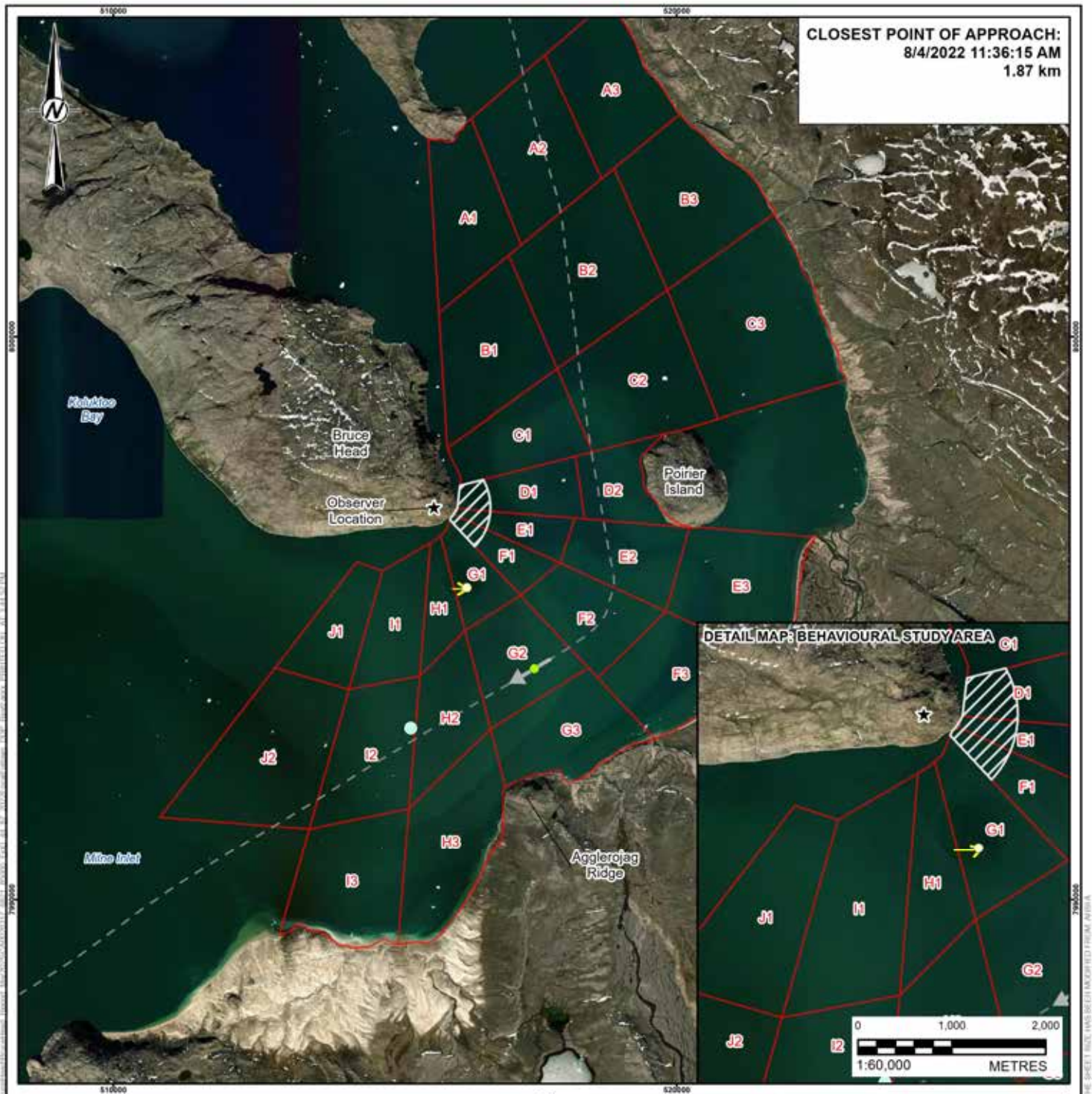
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FIGURE
D-50

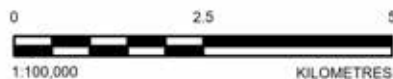






LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 33 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE

FOCAL FOLLOW 33 (2022) AND ACTIVE VESSEL TRANSIT

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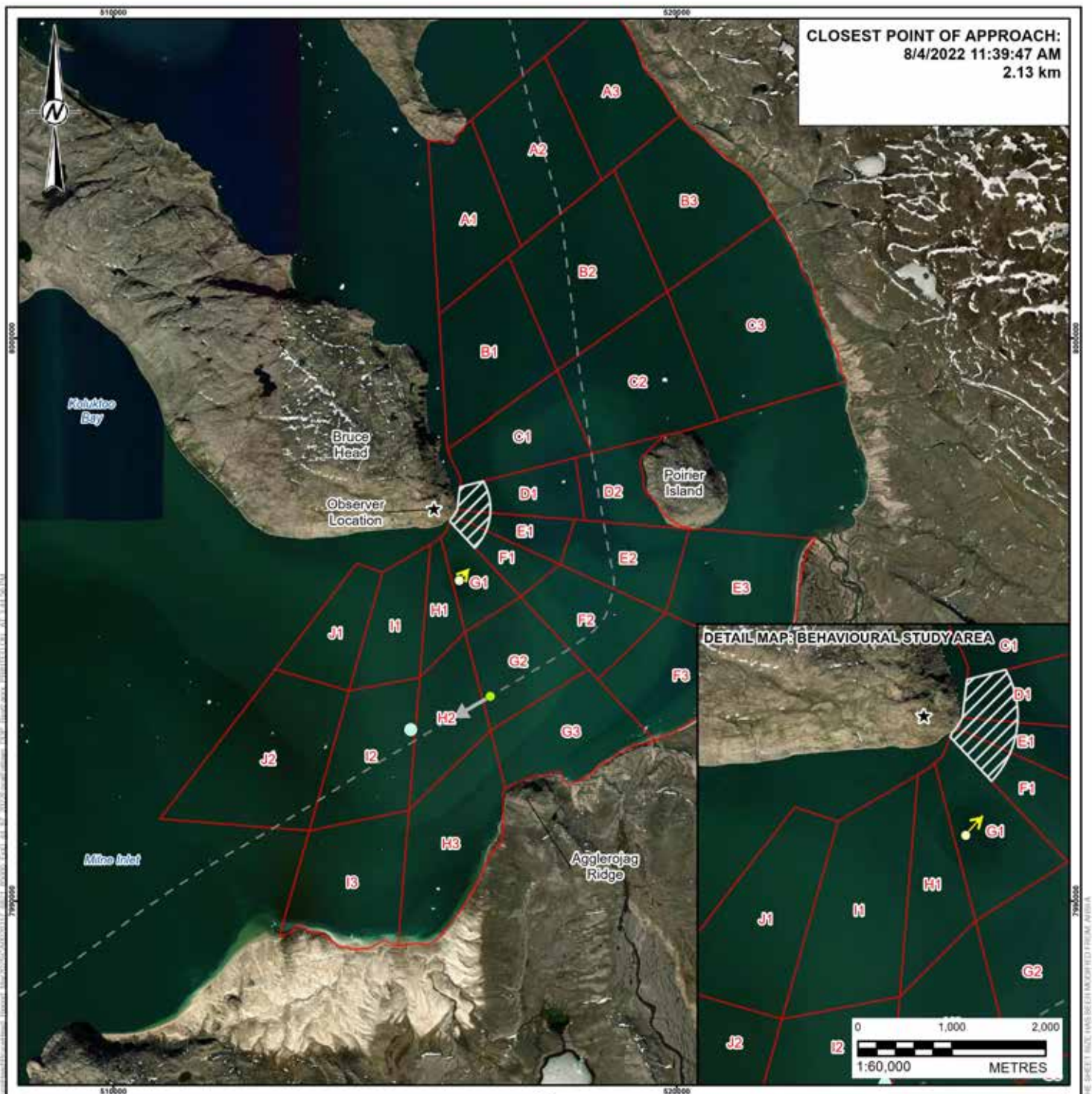
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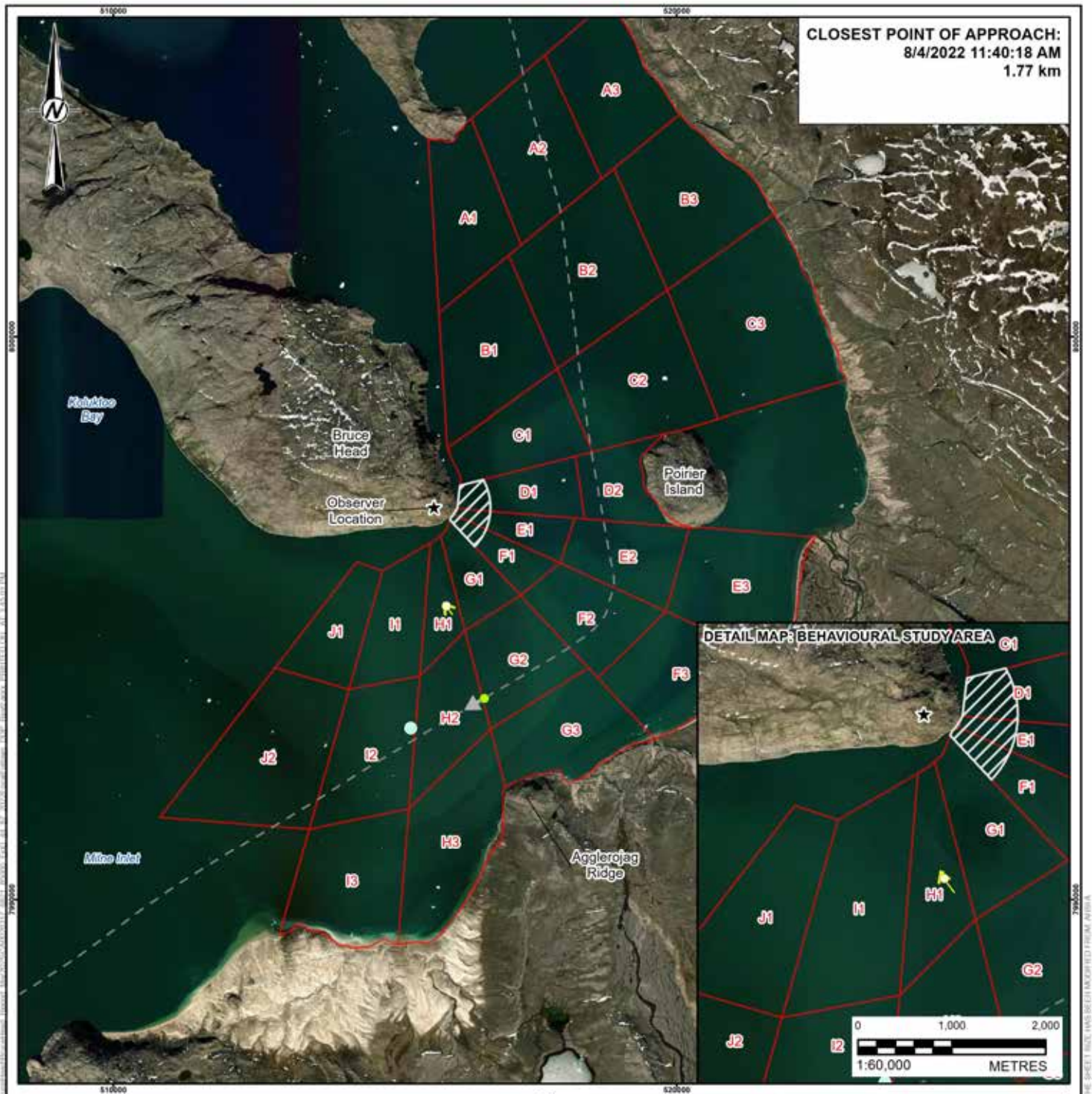
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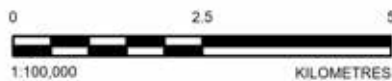
FIGURE
D-53





LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 35 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 35 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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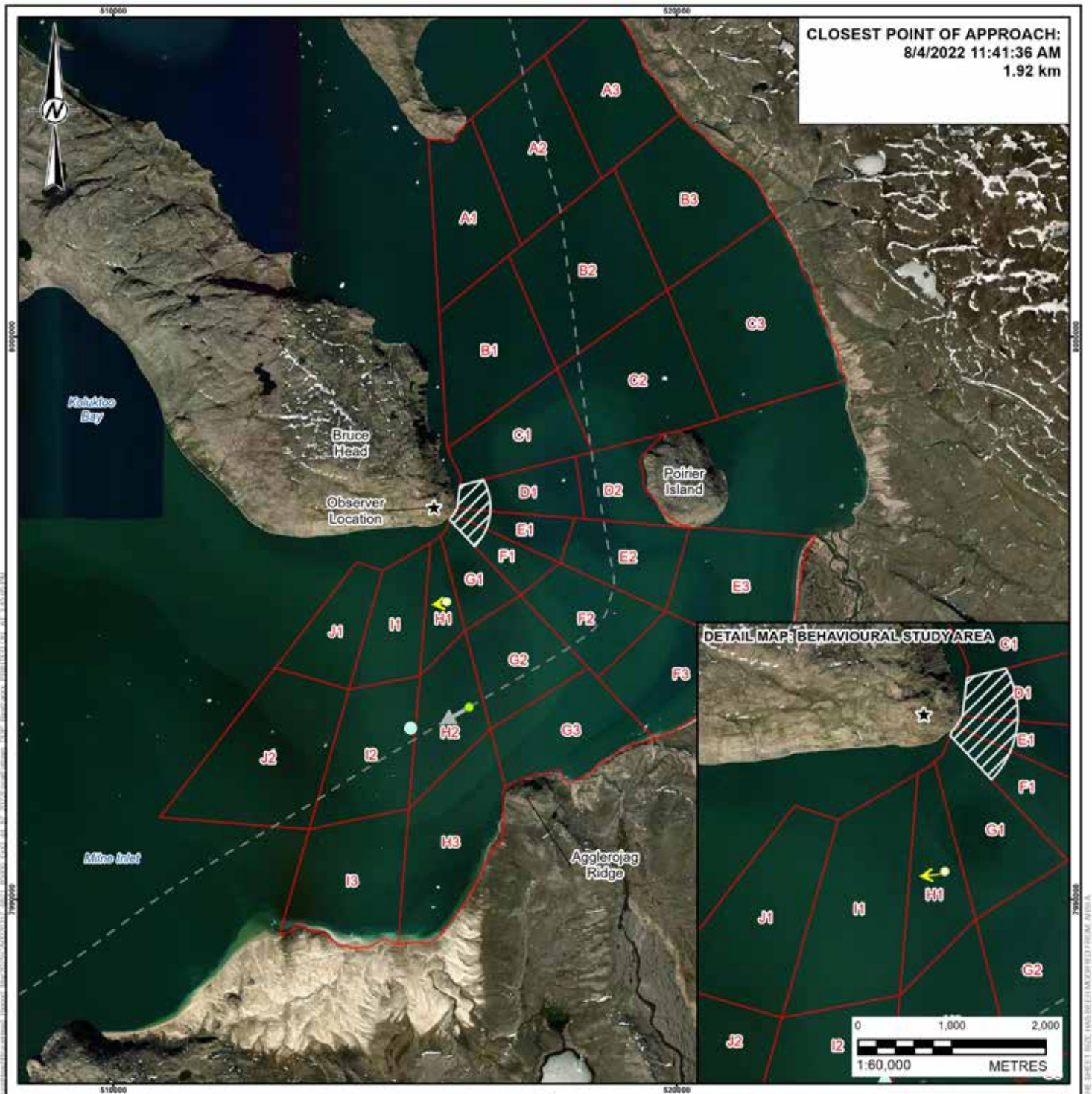
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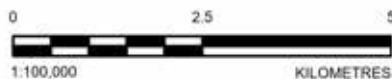
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FIGURE
D-55



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 36 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 36 (2022) AND ACTIVE VESSEL TRANSIT

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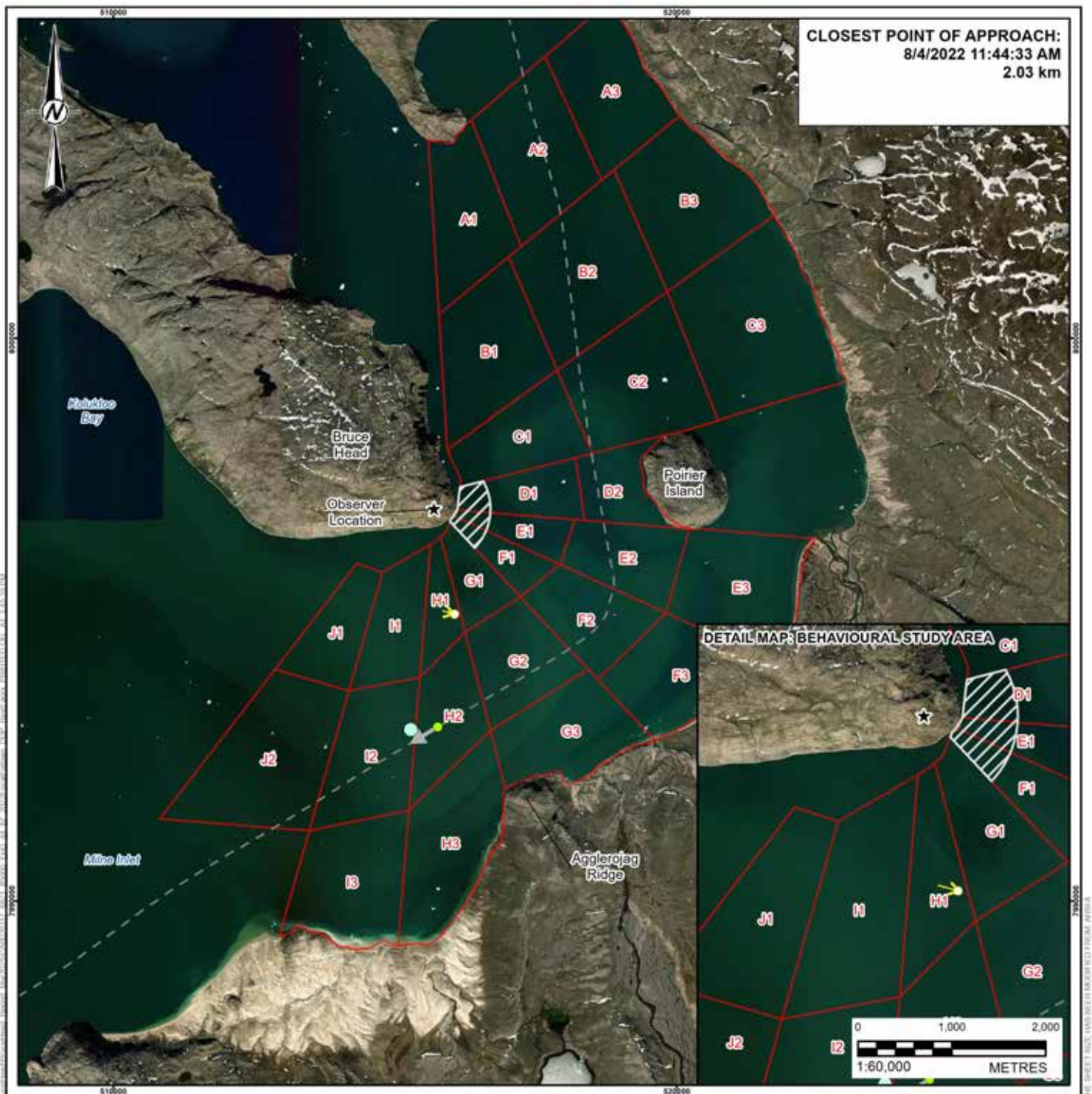
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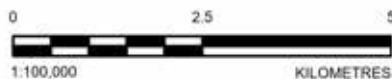
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FIGURE
D-56



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 37 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN ICE)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 37 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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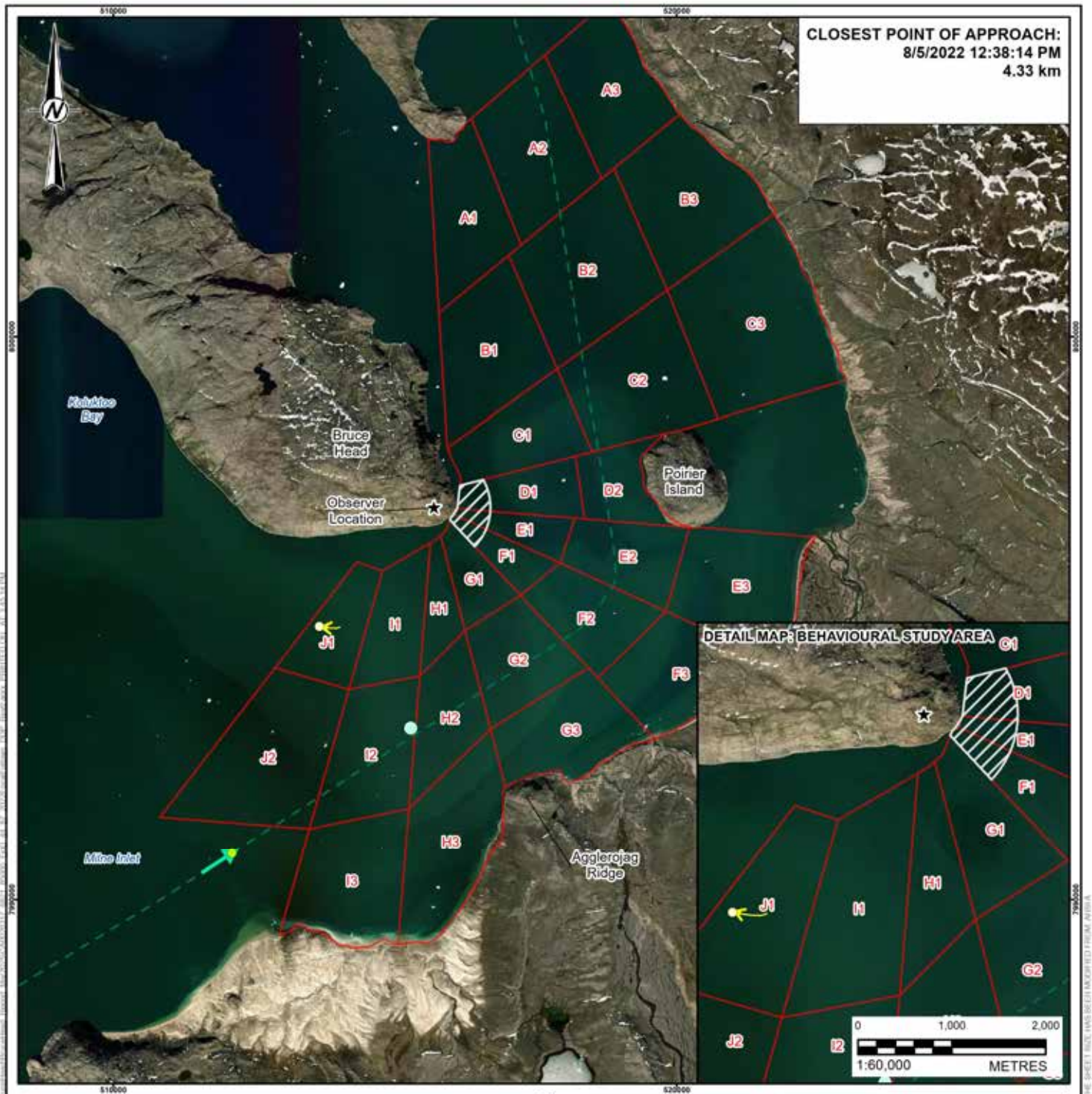
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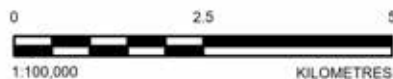
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FIGURE
D-57



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 54 (2022)
- ACTIVE VESSEL TRANSIT (ARKADIA)
- NON-ACTIVE VESSEL TRANSIT (ARKADIA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 54 (2022) AND ACTIVE VESSEL TRANSIT

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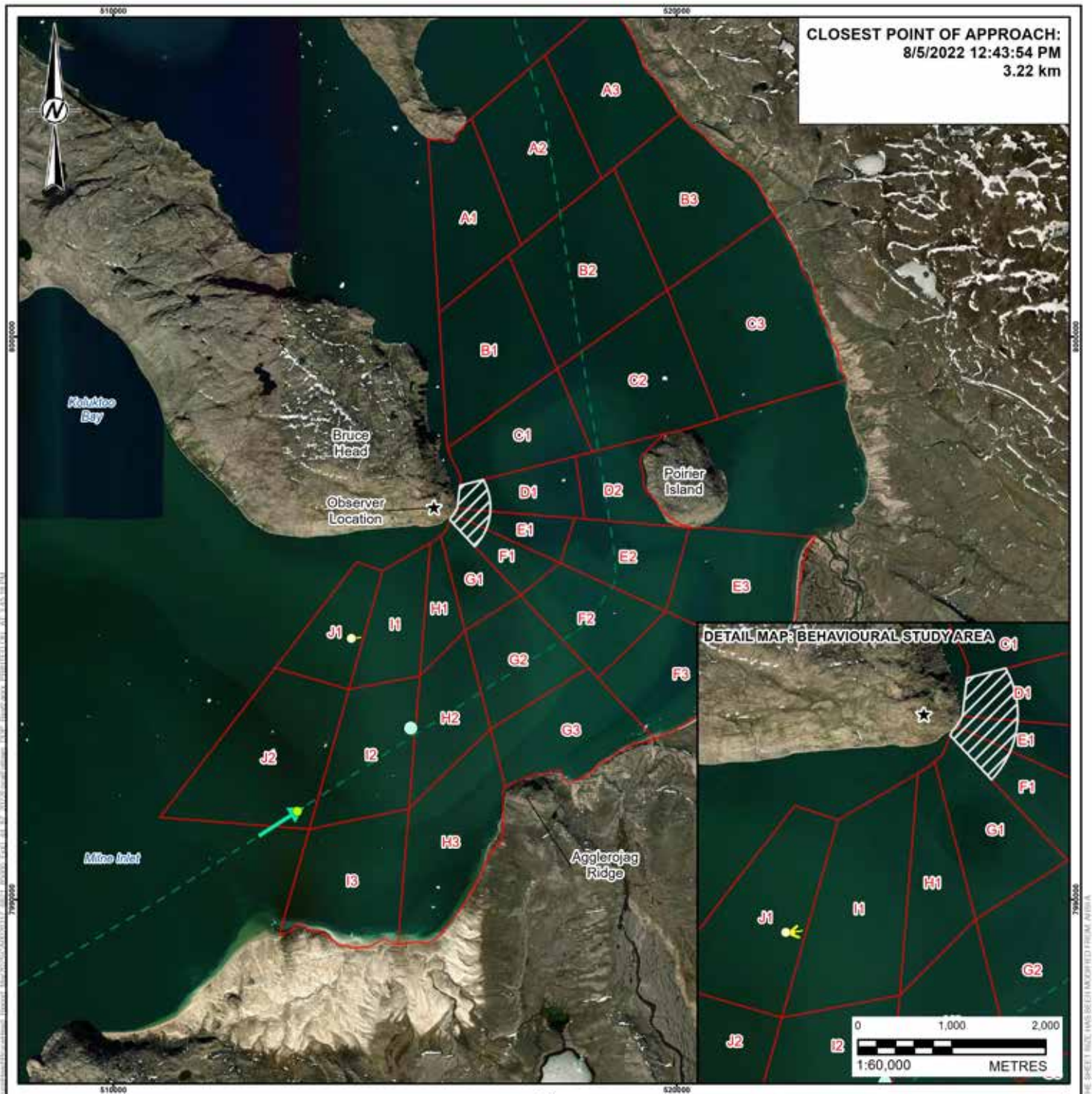
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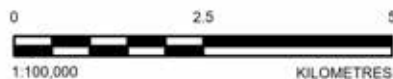
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FIGURE
D-58



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 55 (2022)
- ACTIVE VESSEL TRANSIT (ARKADIA)
- NON-ACTIVE VESSEL TRANSIT (ARKADIA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 55 (2022) AND ACTIVE VESSEL TRANSIT

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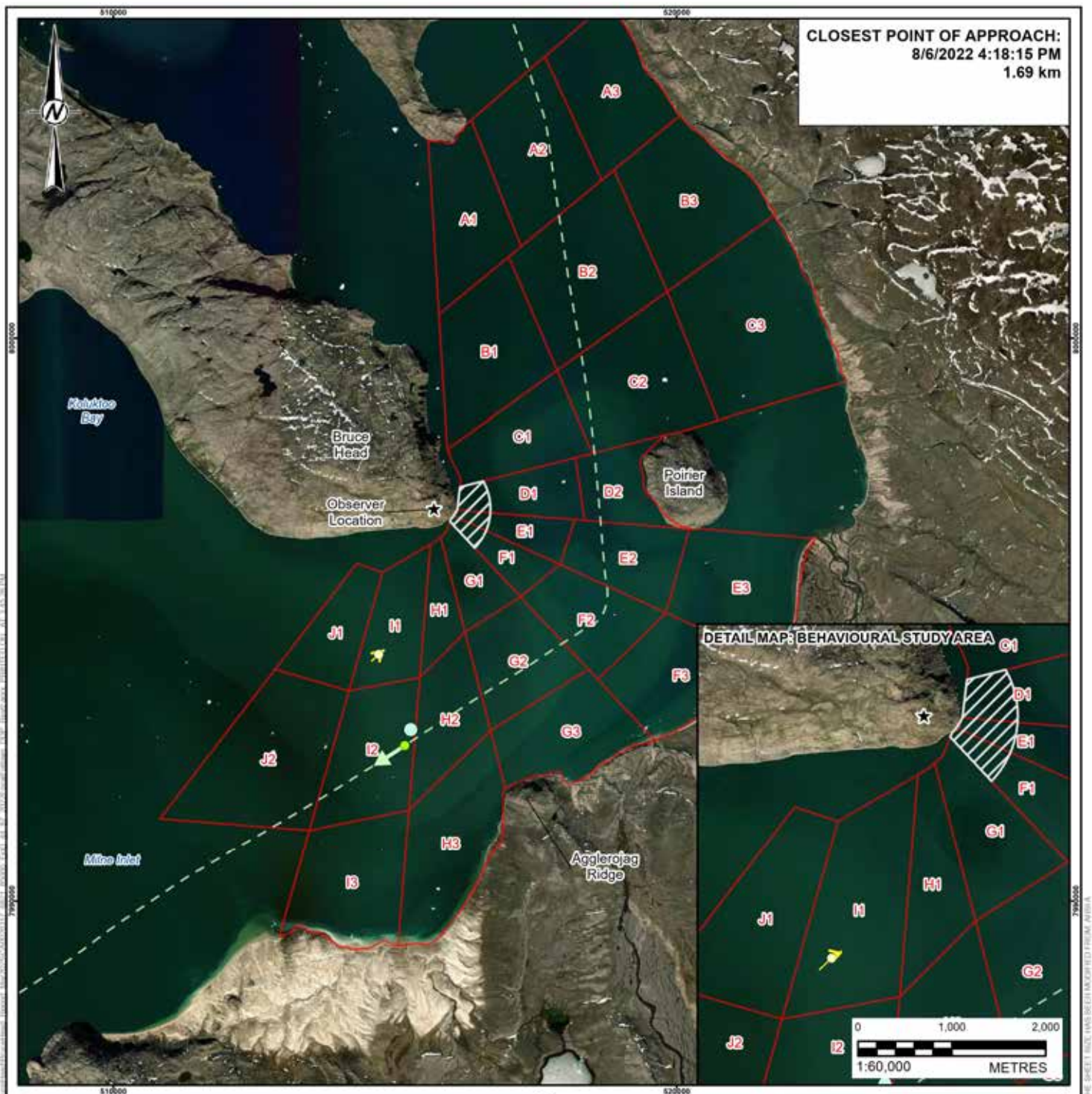
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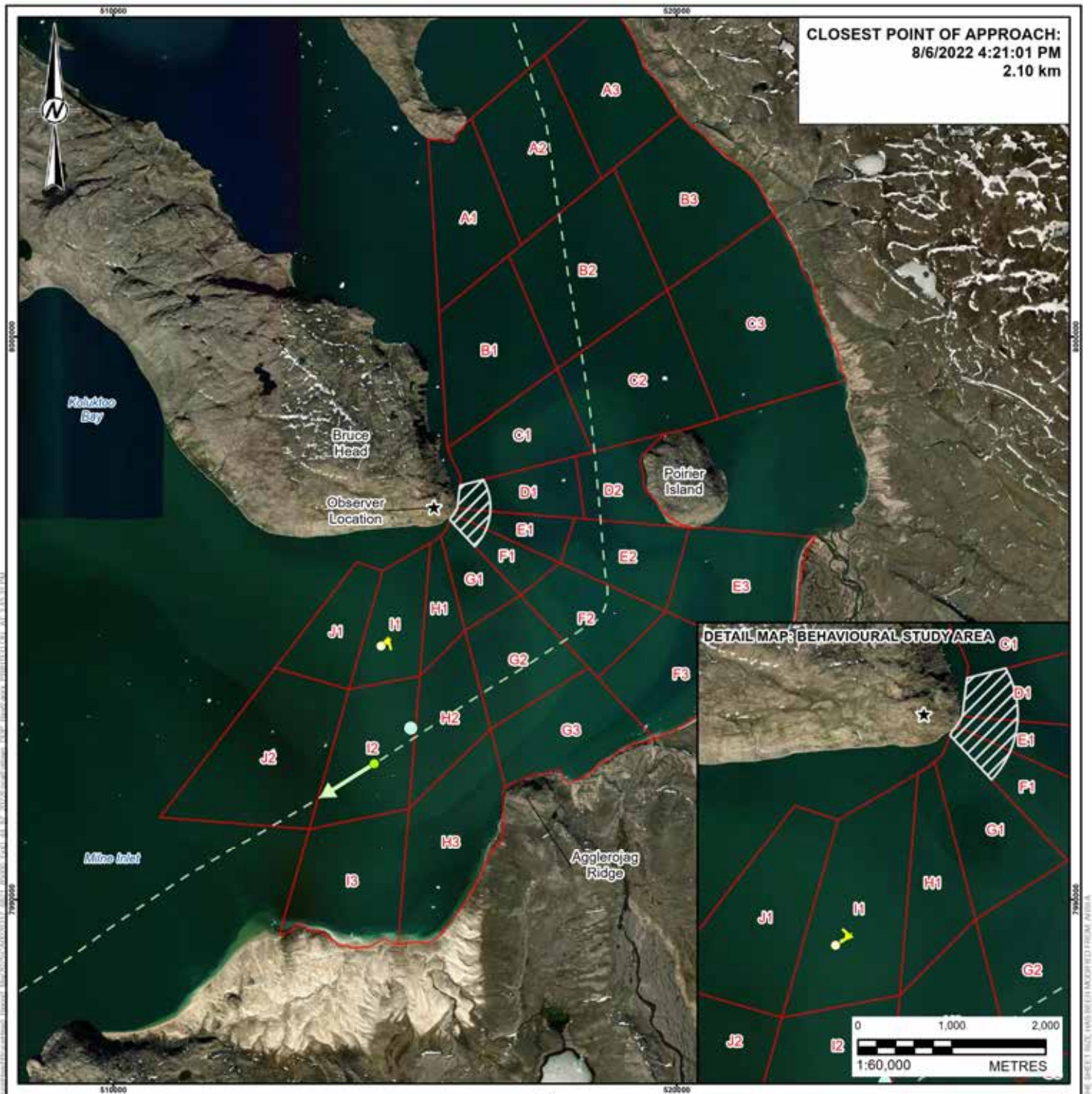
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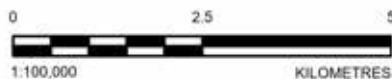
FIGURE
D-59





LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 65 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- NON-ACTIVE VESSEL TRANSIT (NORDIC QINNGUA)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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PROJECT

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TITLE

FOCAL FOLLOW 65 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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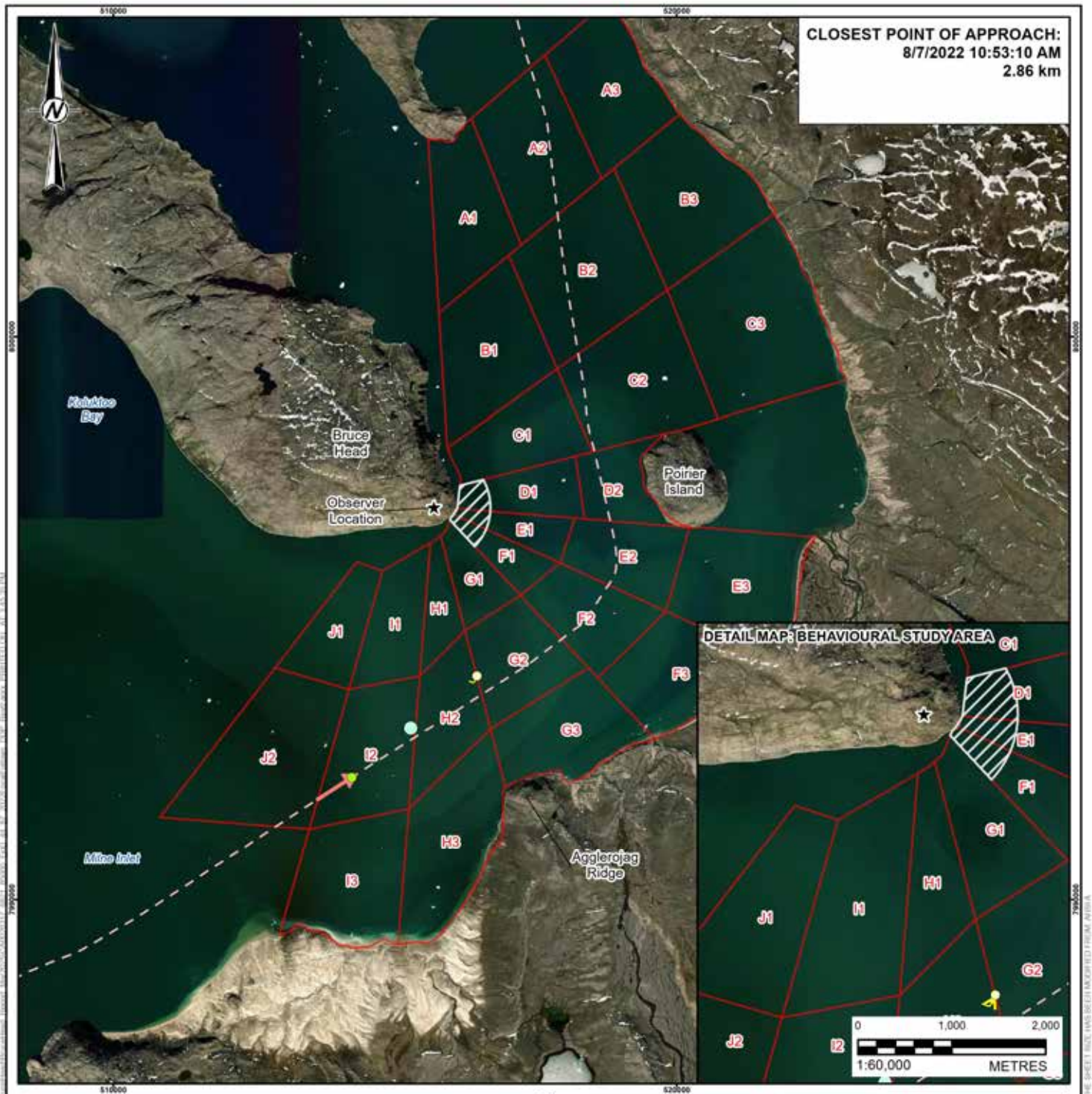
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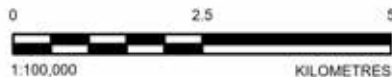
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FIGURE
D-62



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 70 (2022)
- ACTIVE VESSEL TRANSIT (M.V. GOLDEN BRILLIANT)
- NON-ACTIVE VESSEL TRANSIT (M.V. GOLDEN BRILLIANT)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE

FOCAL FOLLOW 70 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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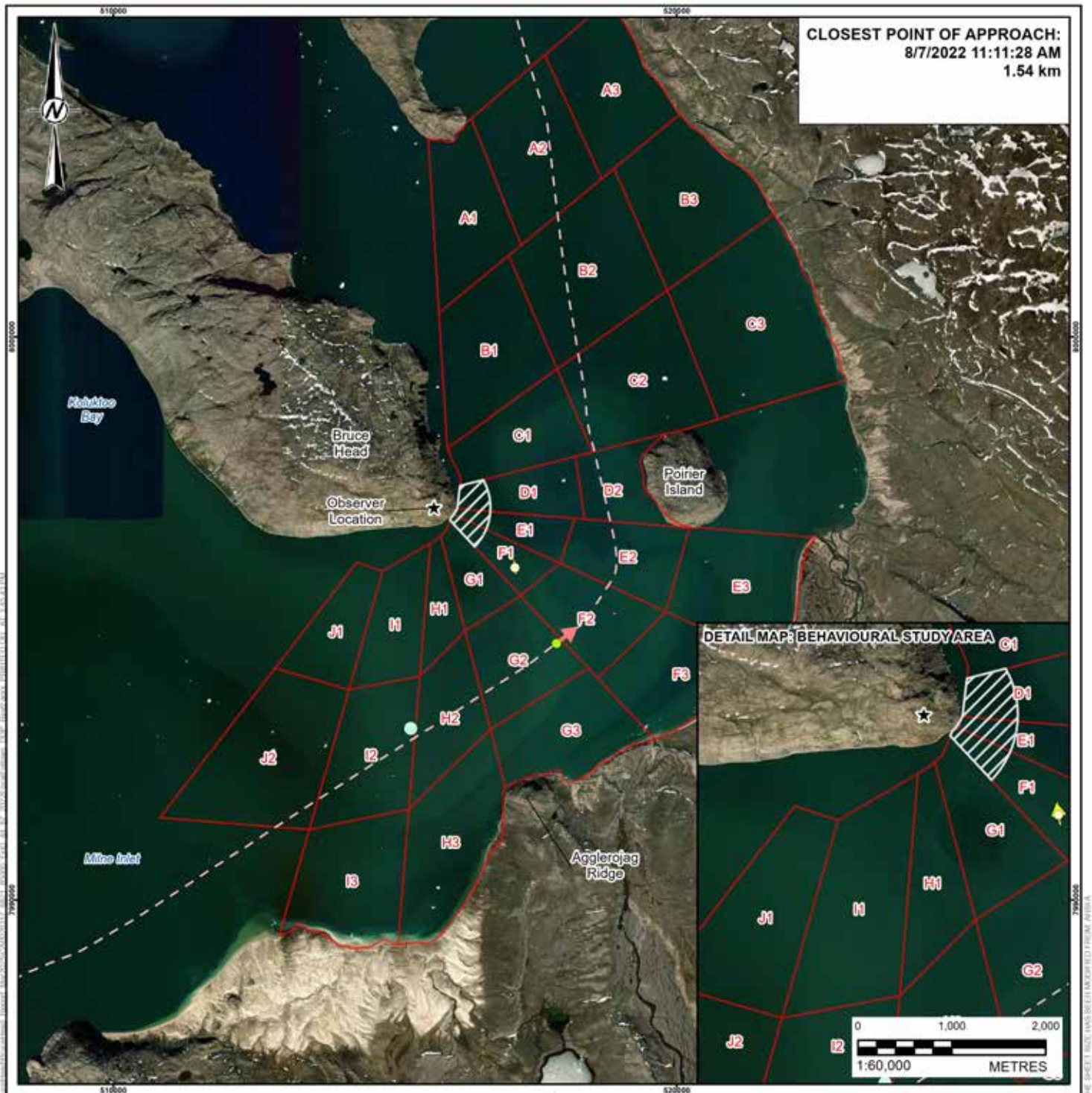
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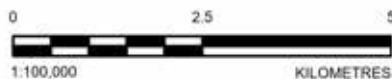
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FIGURE
D-63



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 72 (2022)
- ACTIVE VESSEL TRANSIT (M.V. GOLDEN BRILLIANT)
- NON-ACTIVE VESSEL TRANSIT (M.V. GOLDEN BRILLIANT)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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TITLE

FOCAL FOLLOW 72 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



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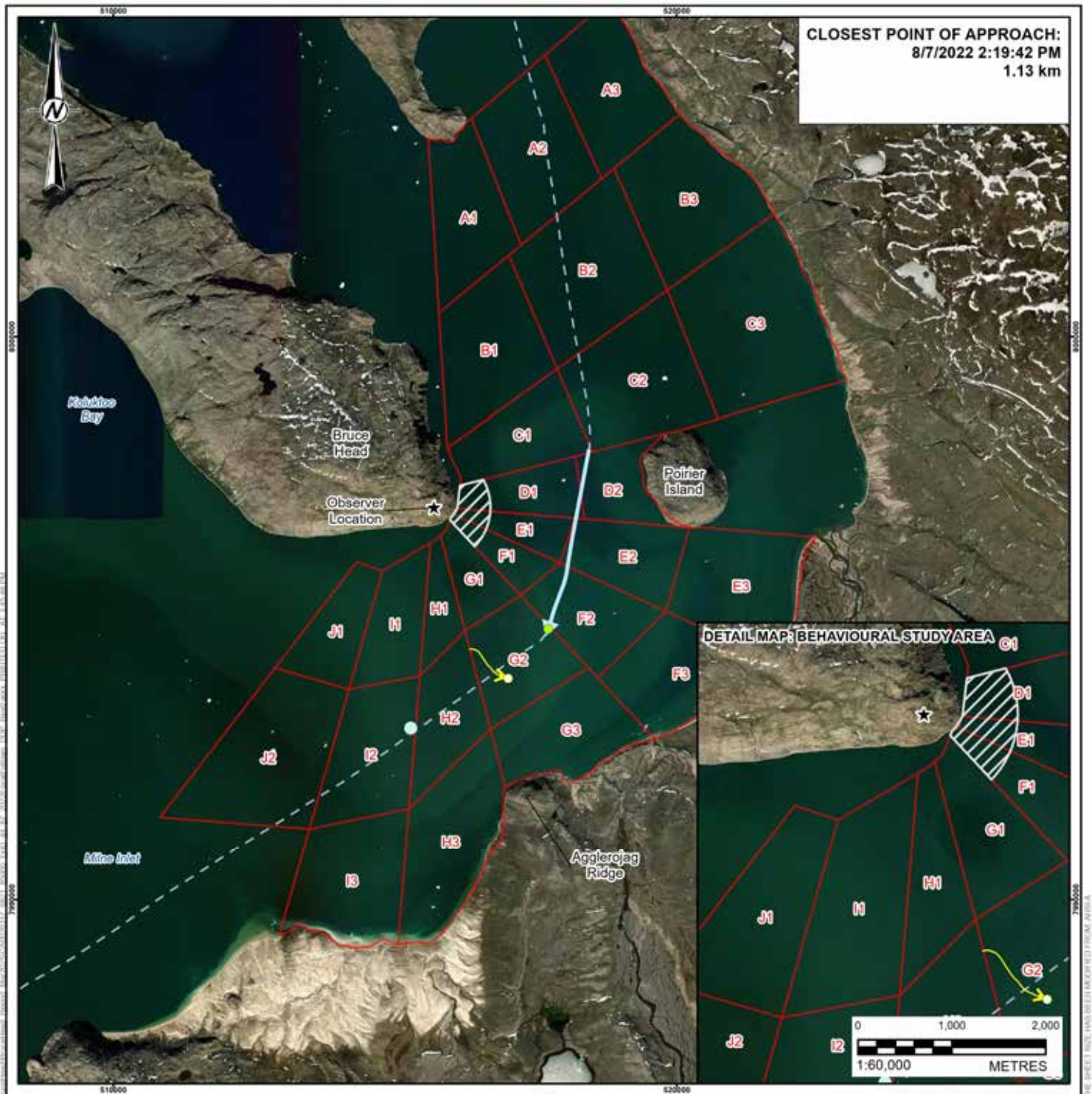
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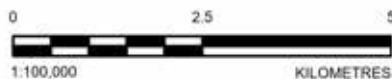
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FIGURE
D-65



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 74 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ORION)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ORION)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 74 (2022) AND ACTIVE VESSEL TRANSIT

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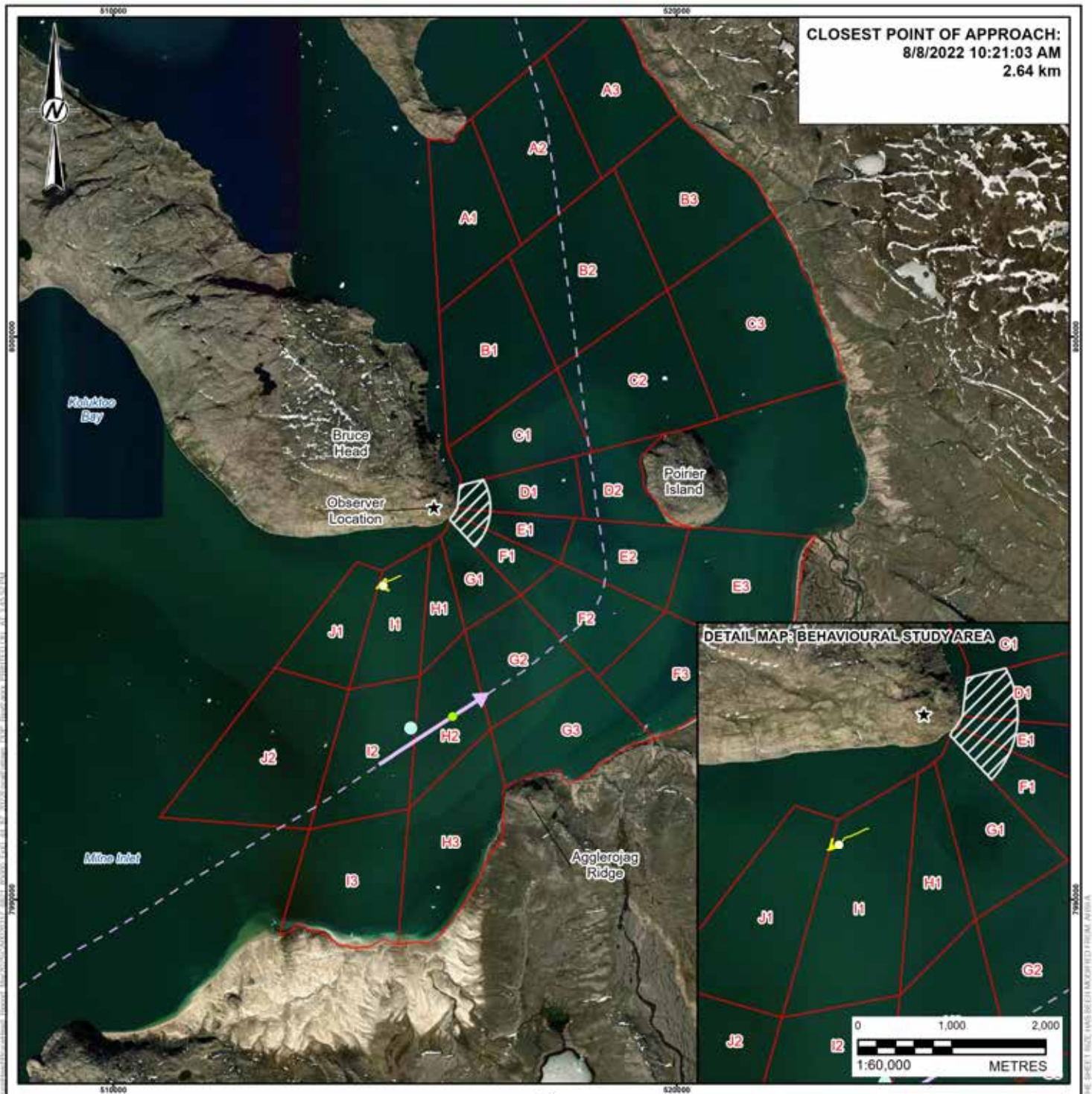
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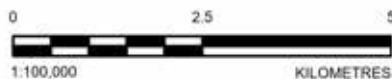
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FIGURE
D-66



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 78 (2022)
- ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- NON-ACTIVE VESSEL TRANSIT (NORDIC ODYSSEY)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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FOCAL FOLLOW 78 (2022) AND ACTIVE VESSEL TRANSIT

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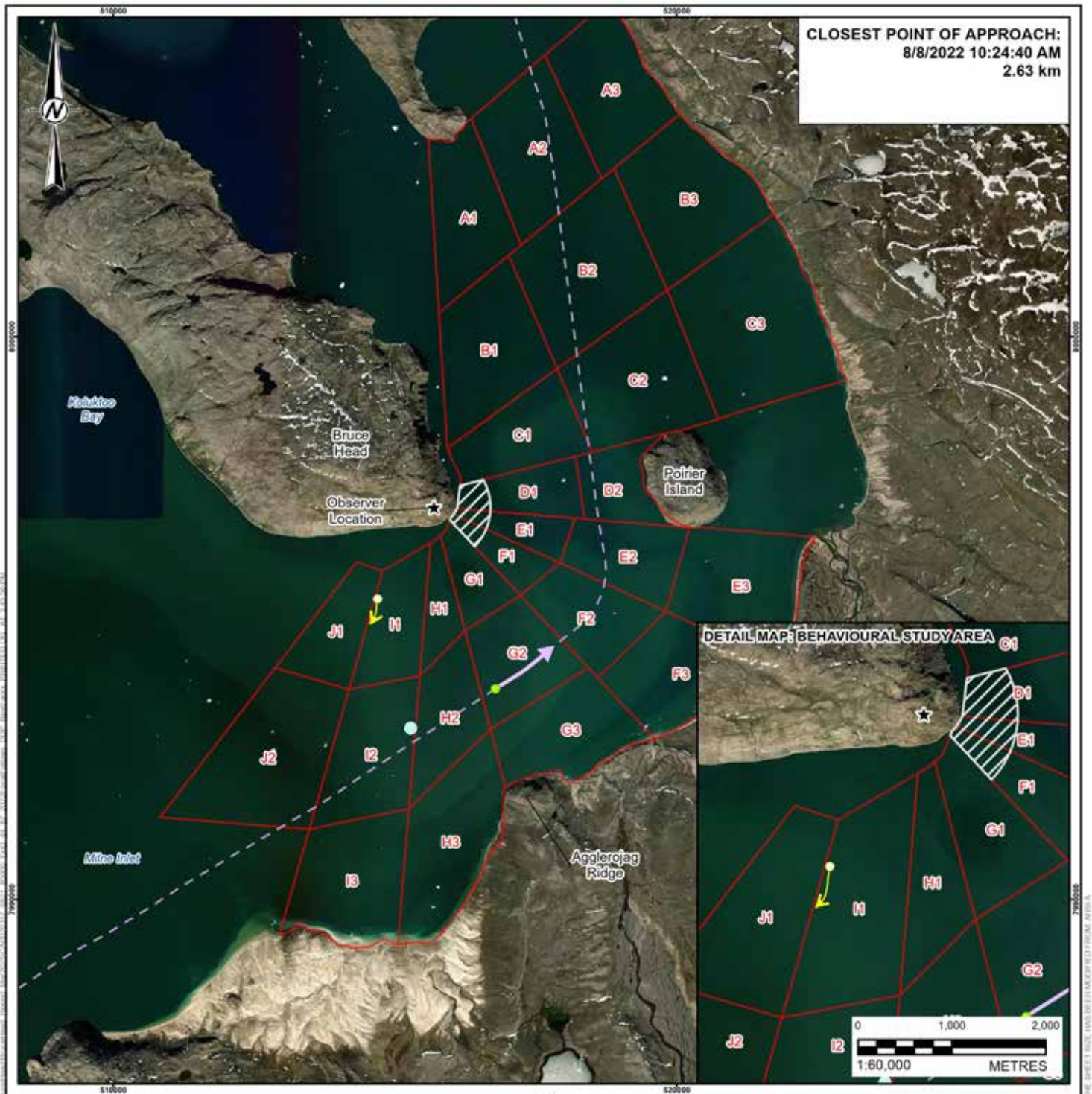
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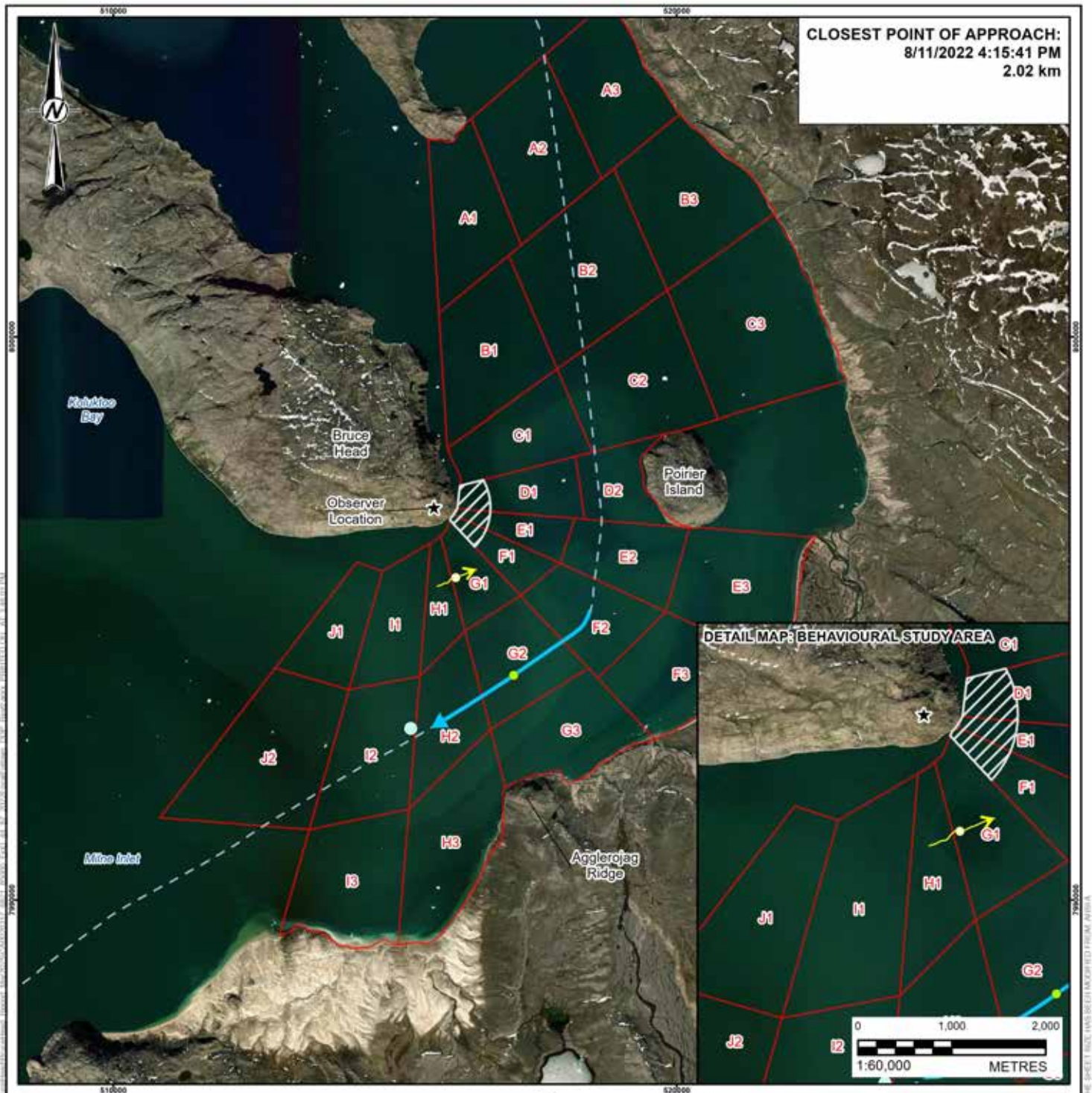
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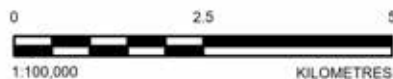
FIGURE
D-67





LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 98 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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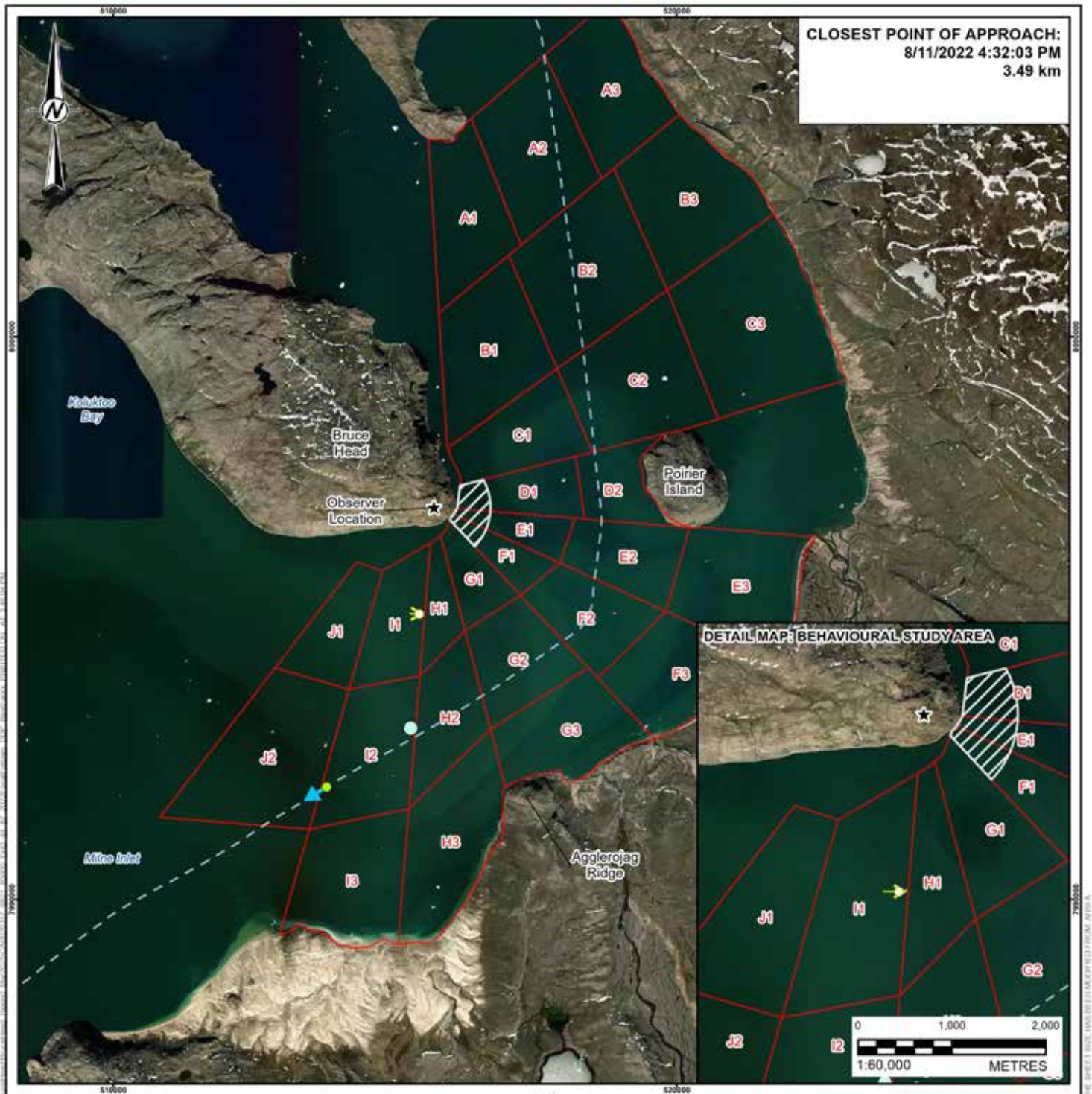
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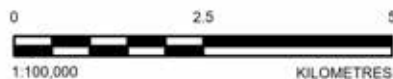
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FIGURE
D-69



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 99 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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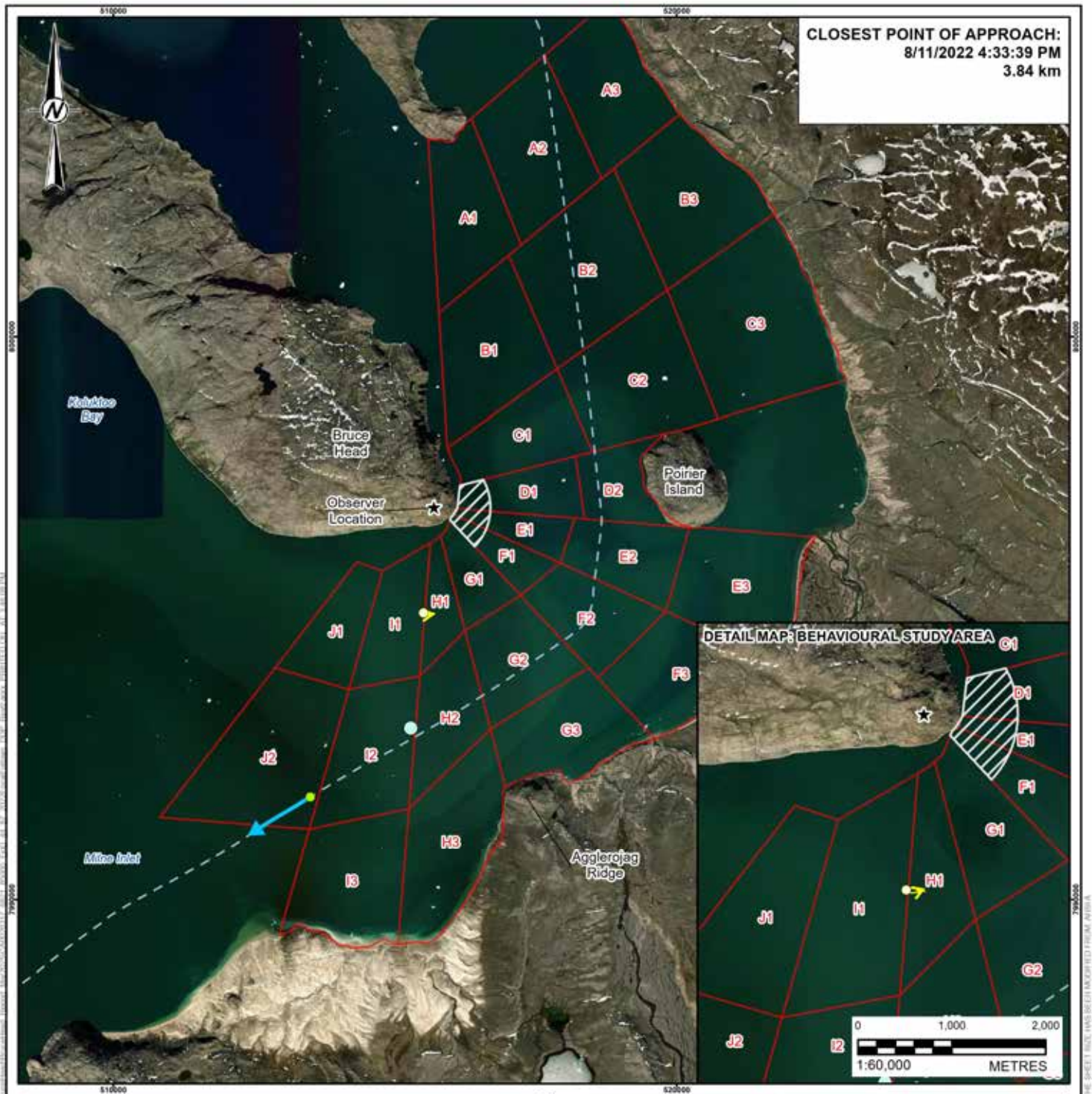
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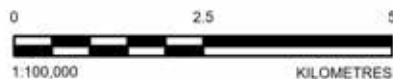
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FIGURE
D-70



LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 100 (2022)
- ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- NON-ACTIVE VESSEL TRANSIT (GOLDEN SUEK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

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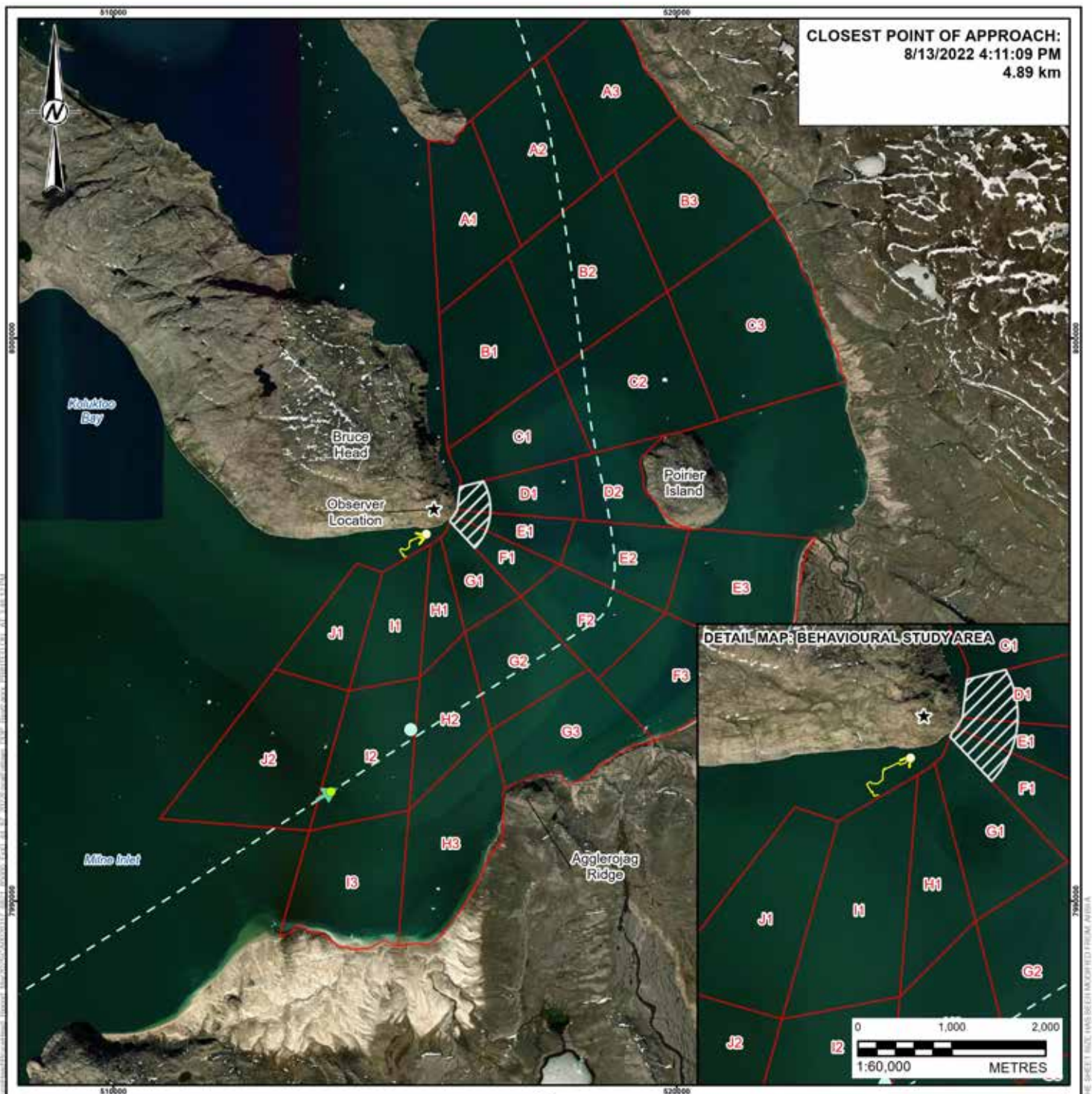
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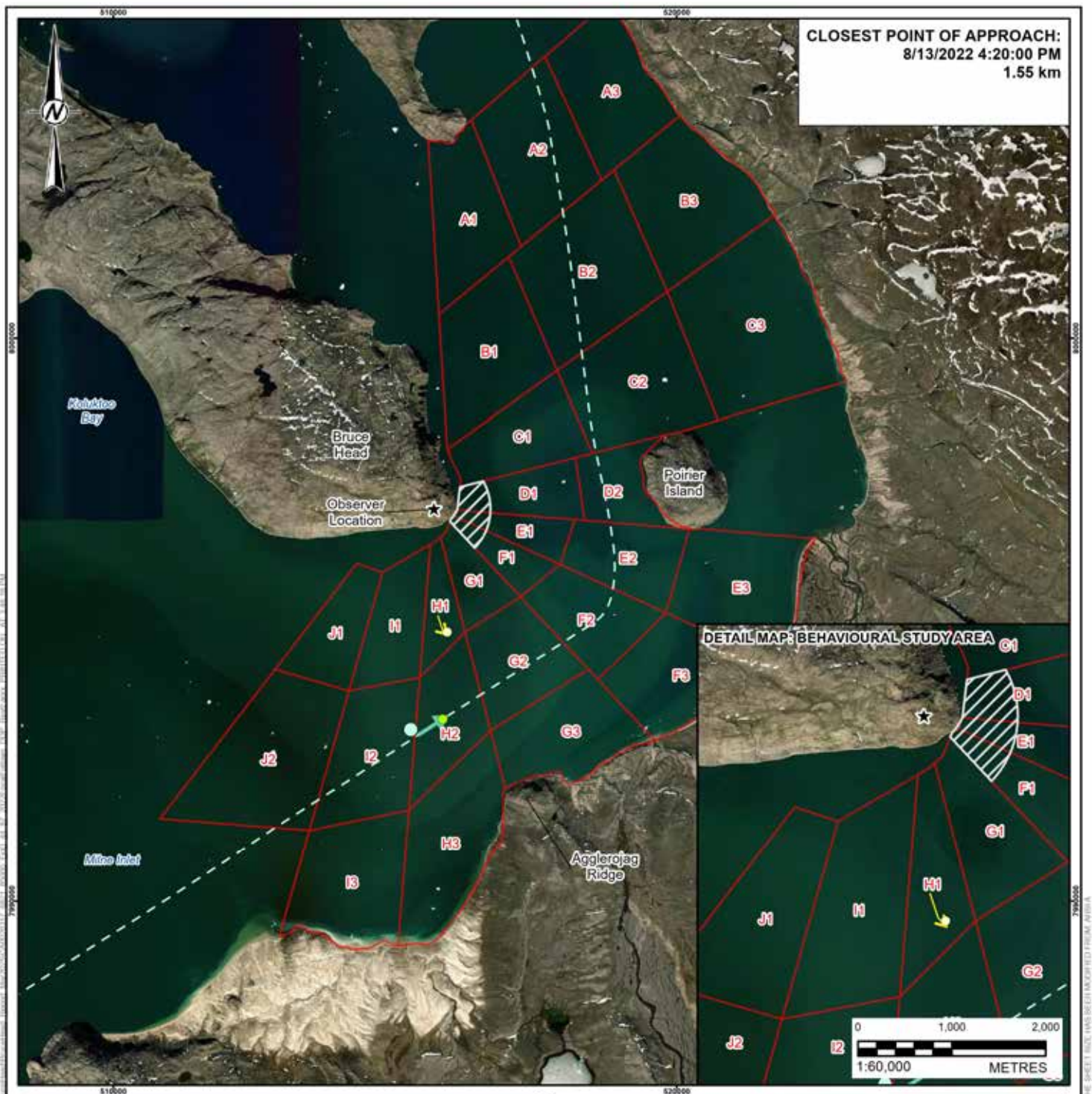
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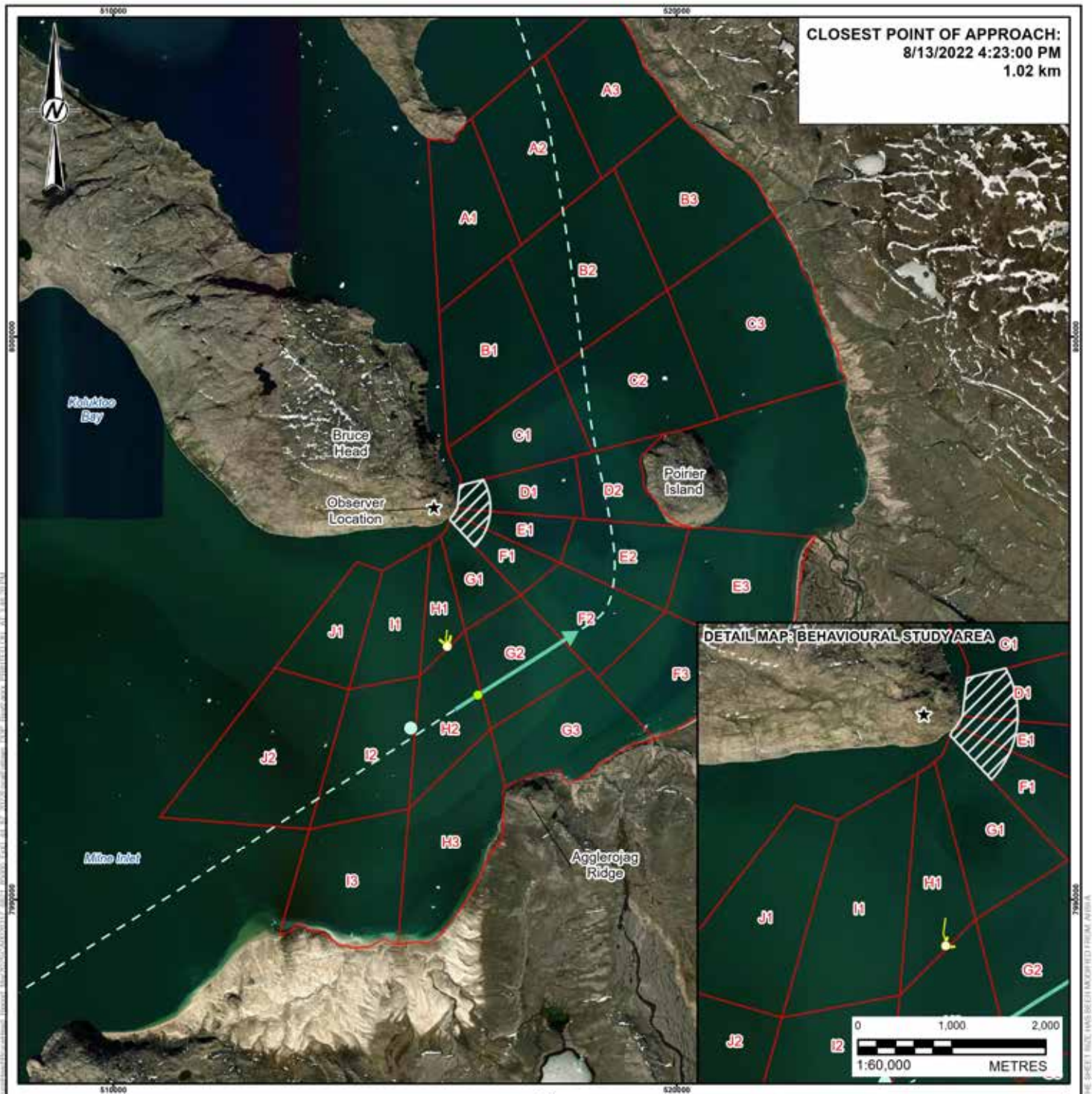
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FIGURE
D-71

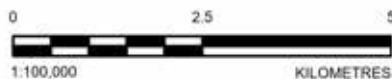






LEGEND

- ACOUSTIC RECORDER (AMAR) LOCATION
- CLOSEST POINT OF APPROACH (VESSEL)
- CLOSEST POINT OF APPROACH (FOCAL FOLLOW)
- ★ OBSERVER LOCATION
- FOCAL FOLLOW TRACK 109(2022)
- ACTIVE VESSEL TRANSIT (NORDIC NULUUJAAK)
- NON-ACTIVE VESSEL TRANSIT (NORDIC NULUUJAAK)
- BEHAVIOURAL STUDY AREA (BSA)
- STRATIFIED STUDY AREA (SSA) SUBSTRATA



REFERENCE(S)

SUBSTRATA AND OBSERVER LOCATION DIGITIZED FROM LGL SHORE-BASED MONITORING OF NARWHALS AND VESSELS AT BRUCE HEAD, MILNE INLET, 2016 REPORT. SHIPPING ROUTE DATA BY CLIENT, JULY 14, 2020. HYDROGRAPHY, POPULATED PLACE, AND PROVINCIAL BOUNDARY DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED. IMAGERY COPYRIGHT ©20240729 AND 20230728 ESRI AND ITS LICENSORS. SOURCE: MAXAR, USED UNDER LICENSE, ALL RIGHTS RESERVED. PROJECTED COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT

BAFFINLAND IRON MINES CORPORATION

PROJECT

MARY RIVER PROJECT

TITLE

FOCAL FOLLOW 109 (2022) AND ACTIVE VESSEL TRANSIT

CONSULTANT



YYYY-MM-DD 2025-04-24

DESIGNED SU

PREPARED AA

REVIEWED PA

APPROVED PA

PROJECT NO.
CA0026317.6821

CONTROL
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FIGURE
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