

MYANMA PORT AUTHORITY (MPA)



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM



ORIENTAL CONSULTANTS GLOBAL Co., LTD.



ASIA AIR SURVEY CO., LTD.

CONTRACTOR



ARC GEO SUPPORT CO., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Bathymetric maps around the merging point of the Yangon River and the Bago River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

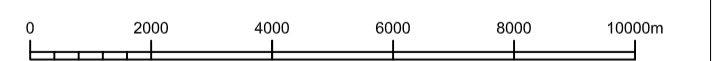
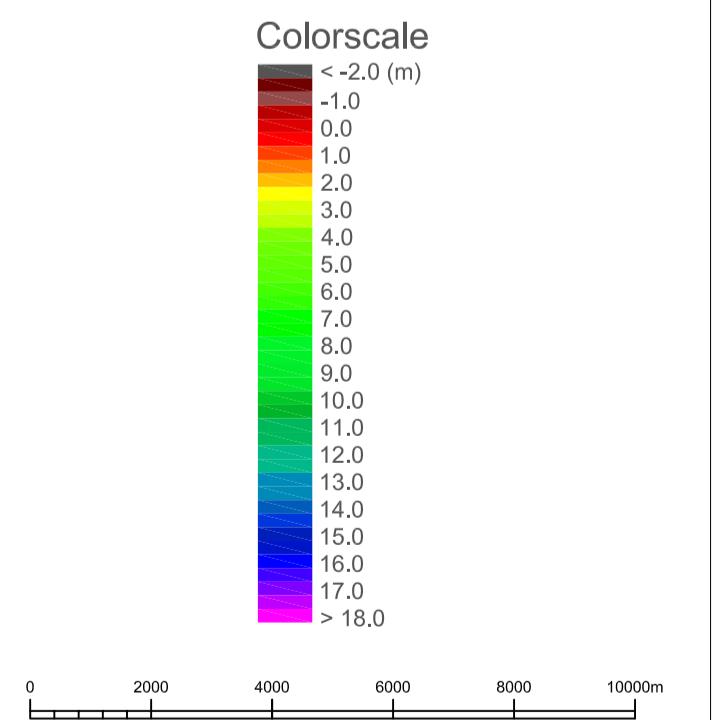
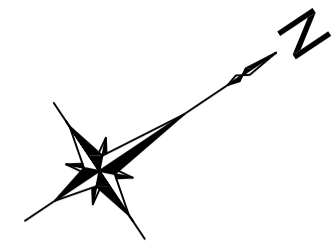
31 Jan 2016

Sheet No.

the Merging point

Scale

1/75,000 (A1 Printing)
1/150,000 (A3 Printing)



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Datum Level

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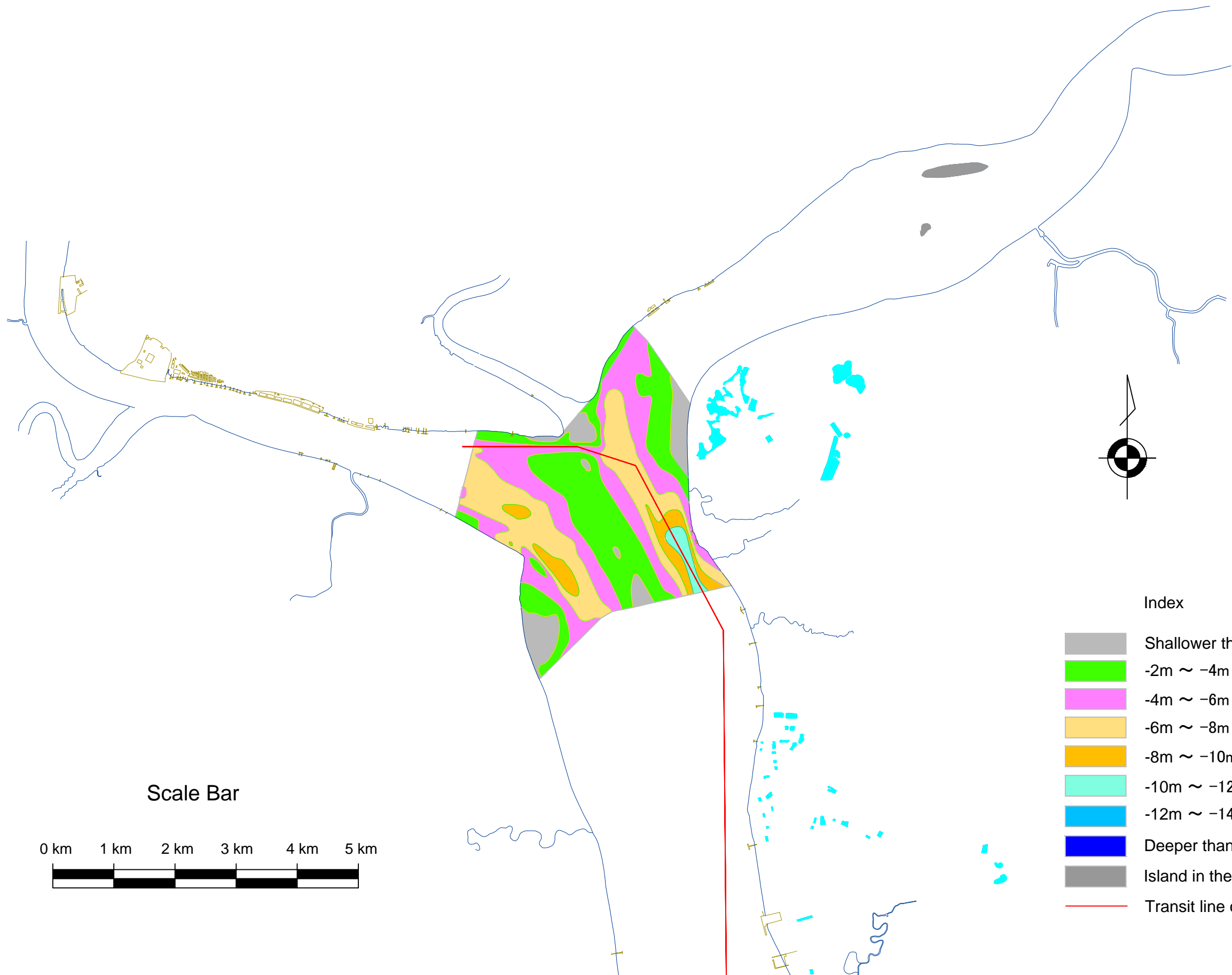
31 Jan 2016

Sheet No.

Whole survey area

Scale

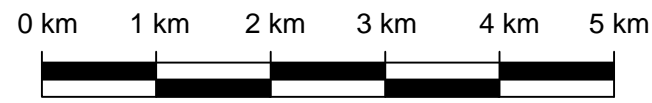
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1/250,000 (A3 Printing)

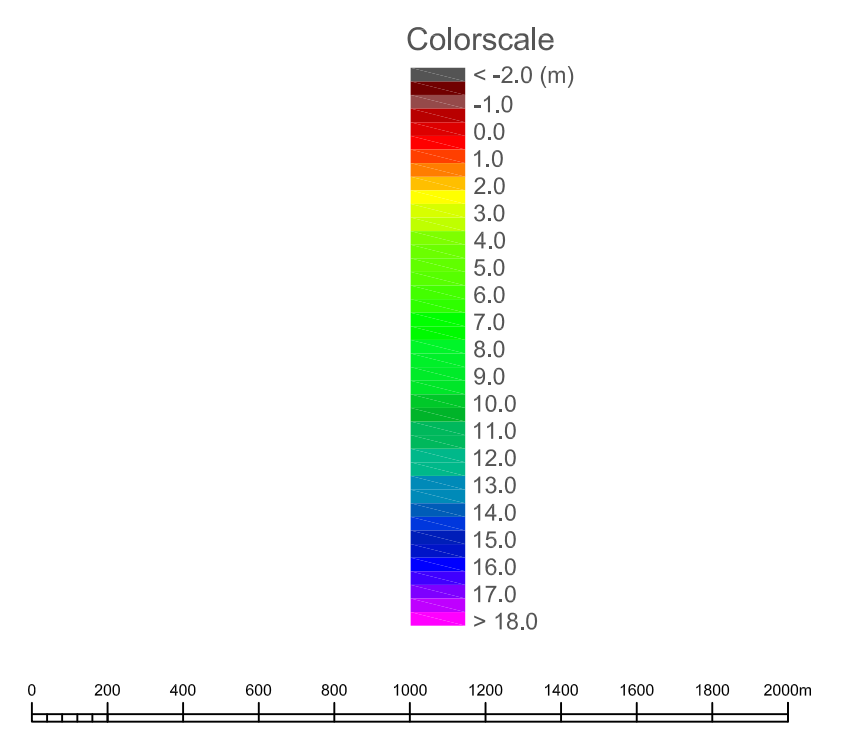
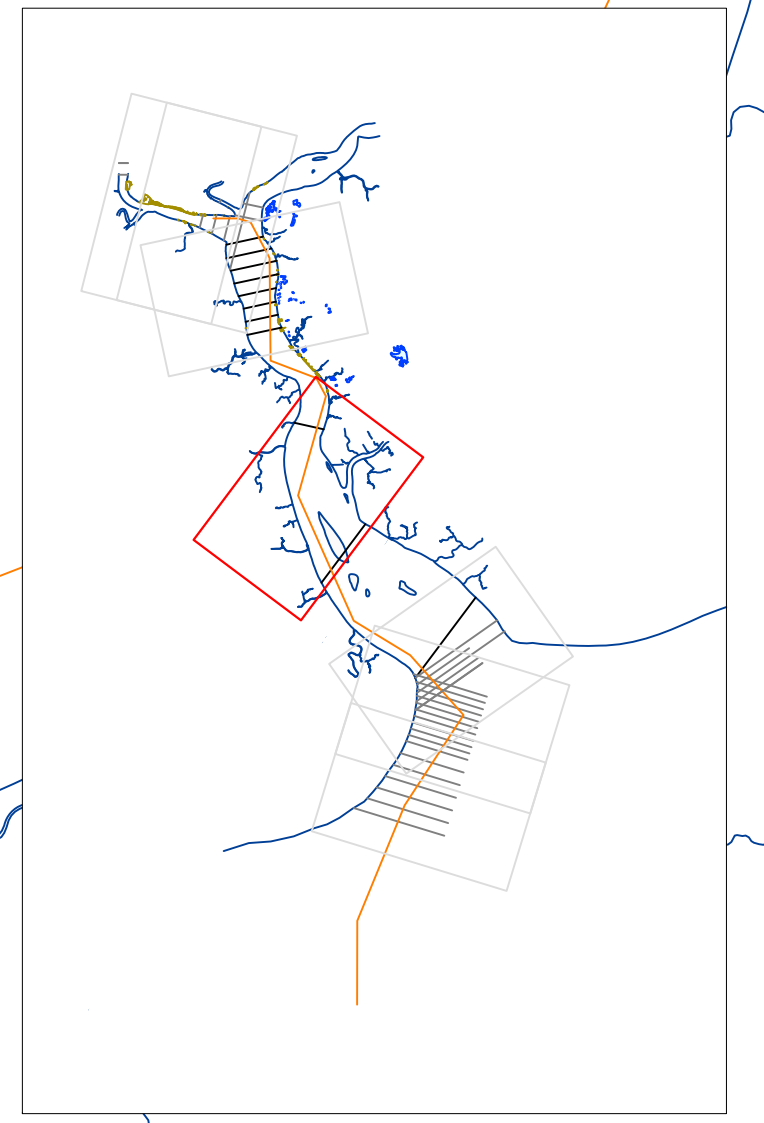
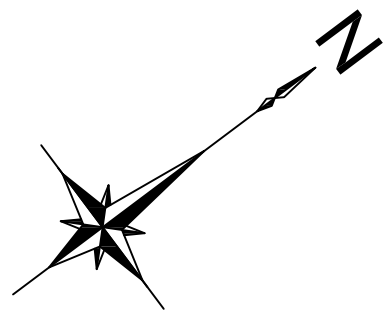


Index

- Shallower than -2m
- 2m ~ -4m
- 4m ~ -6m
- 6m ~ -8m
- 8m ~ -10m
- 10m ~ -12m
- 12m ~ -14m
- Deeper than -14m
- Island in the river
- Transit line on May 2015

Scale Bar



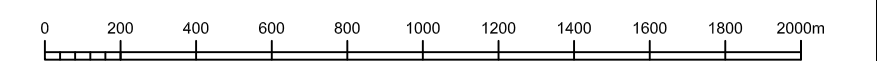
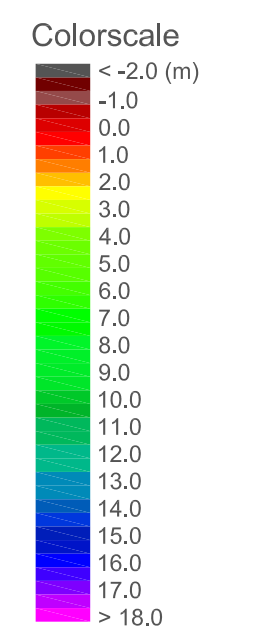
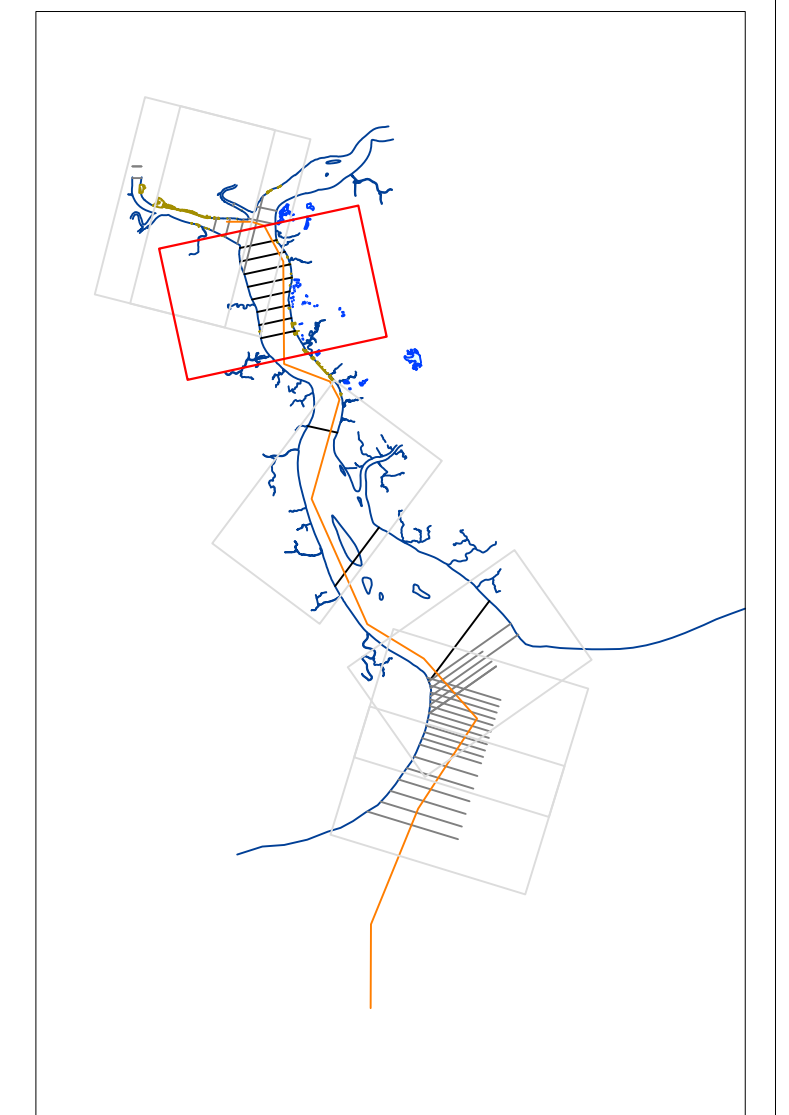
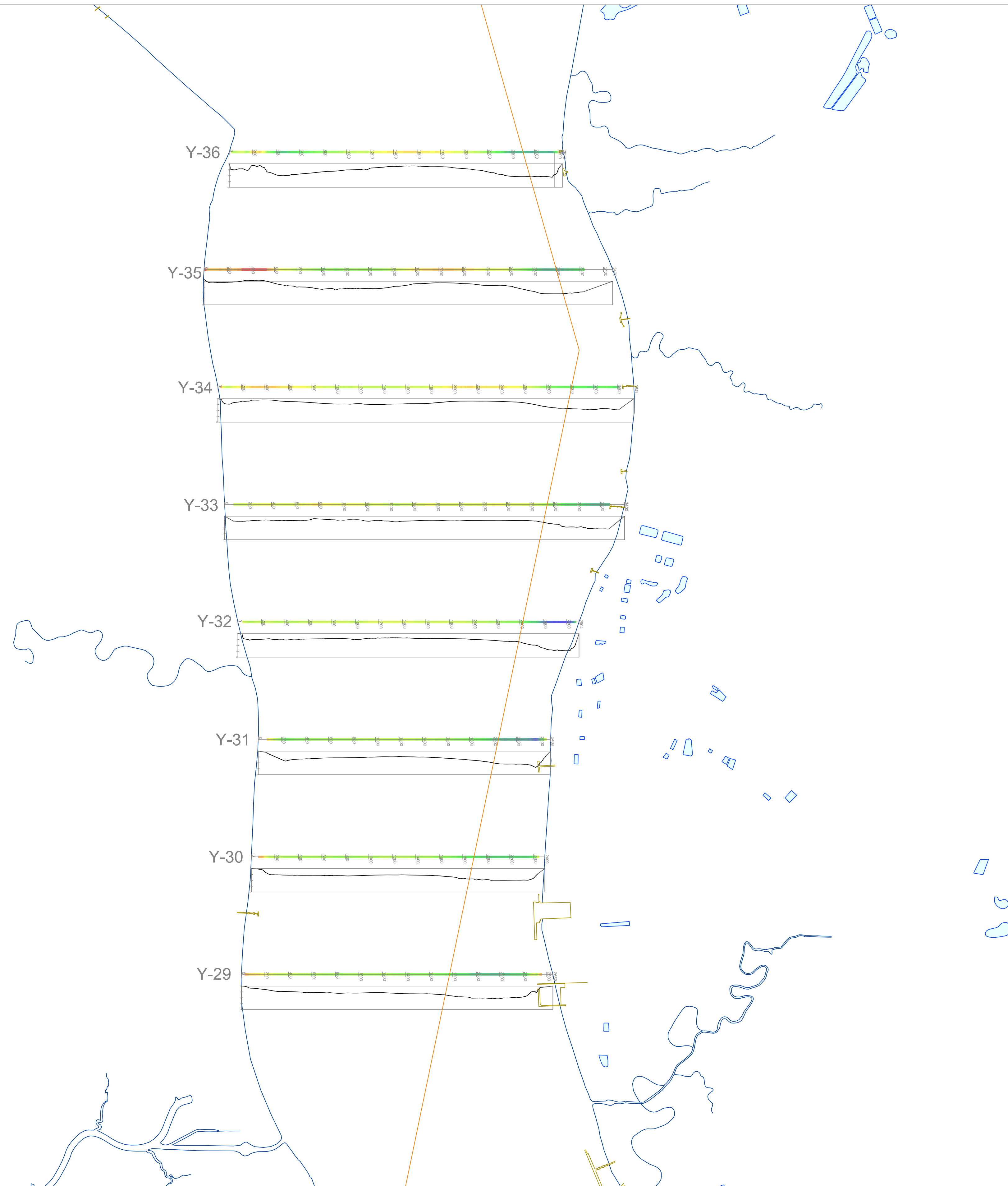
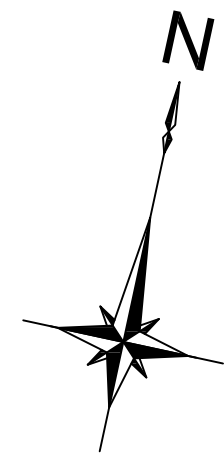


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	ORIENTAL CONSULTANTS GLOBAL Co., LTD.
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CONTRACTOR	
	ARC GEO SUPPORT Co., LTD.

Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Cross section and colored map covering the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	The Yangon River and the Bago River (1/4)
Revision	1.0.0	Scale	1/20,000 (A1 Printing) 1/40,000 (A3 Printing)



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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross section and colored map covering the Yangon River, the Bago River and Pazundung Creek after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

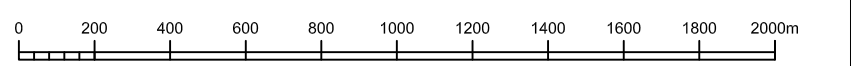
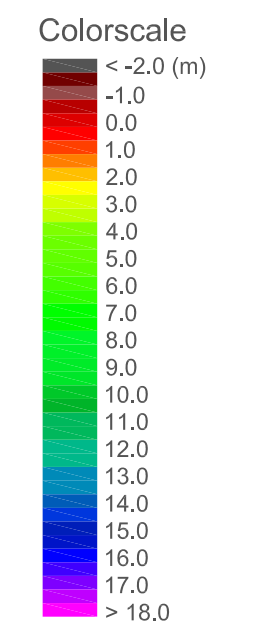
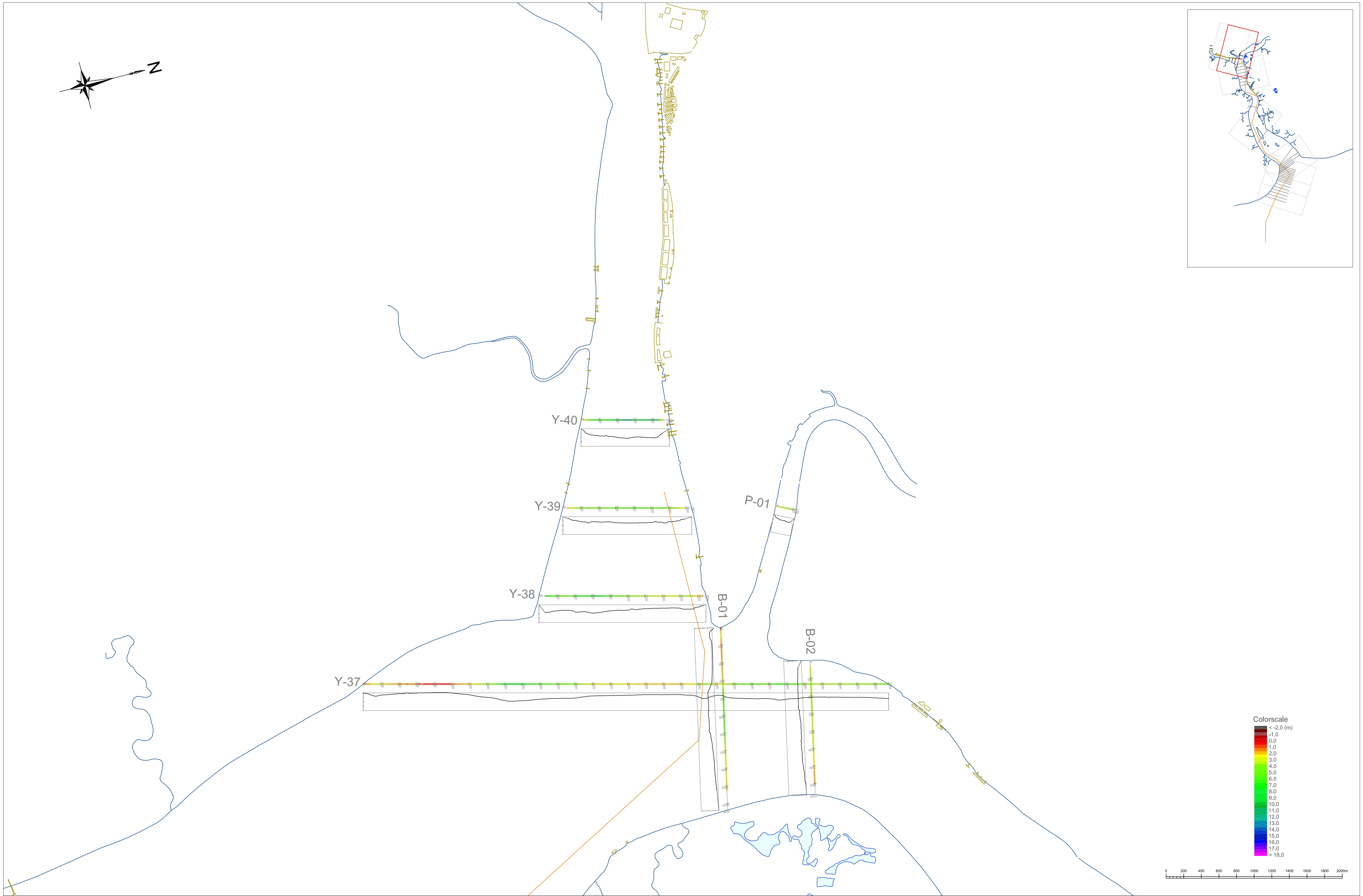
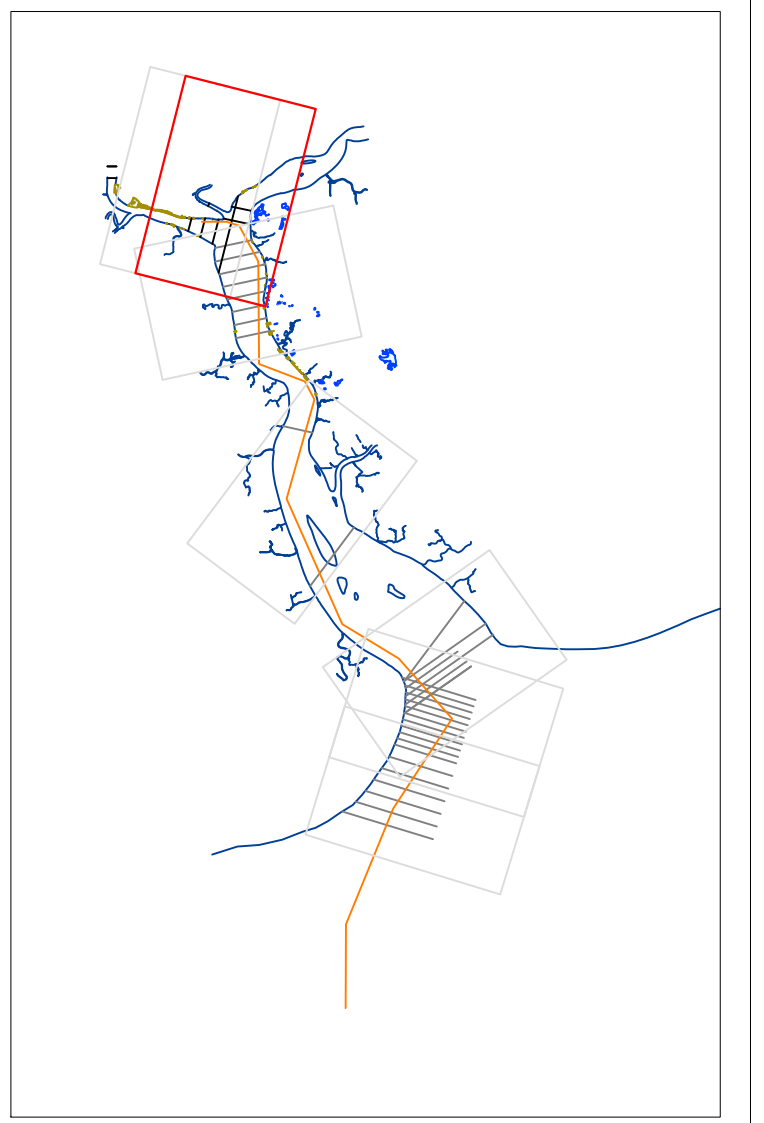
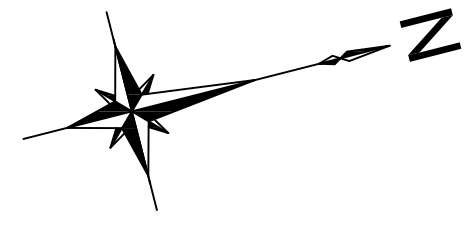
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Sheet No.

The Yangon River and the Bago River (2/4)

Scale

1/20,000 (A1 Printing)
1/40,000 (A3 Printing)



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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross section and colored map covering the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

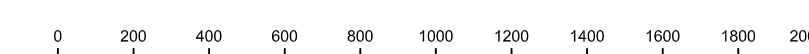
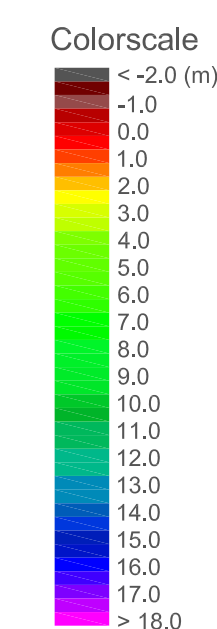
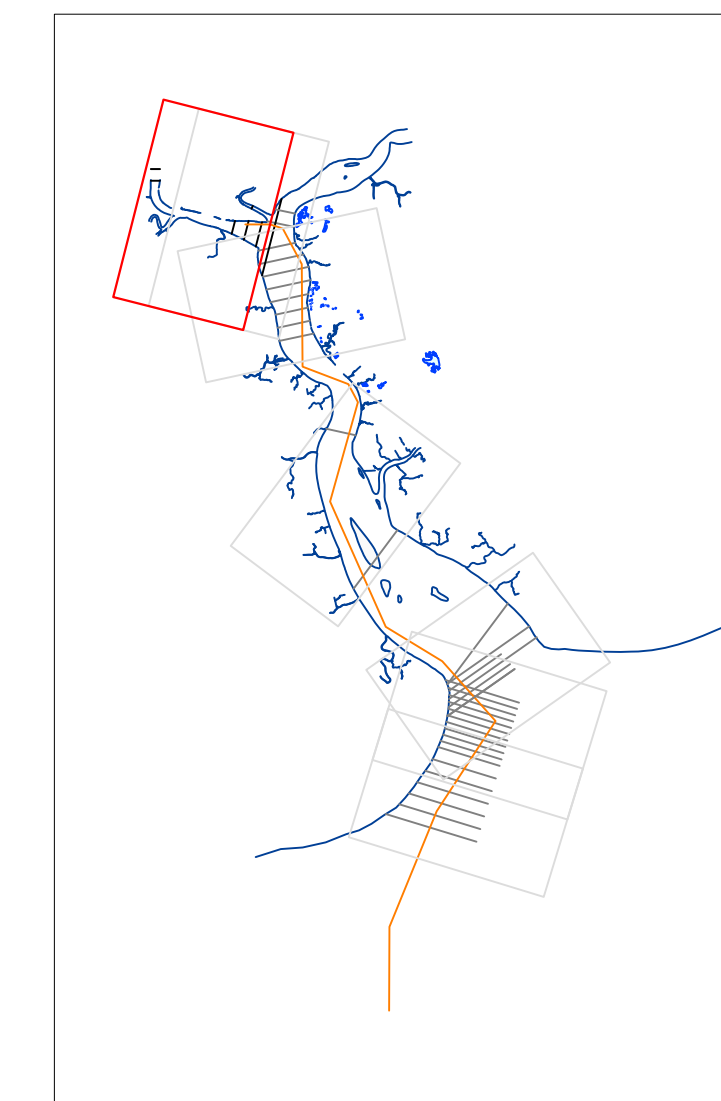
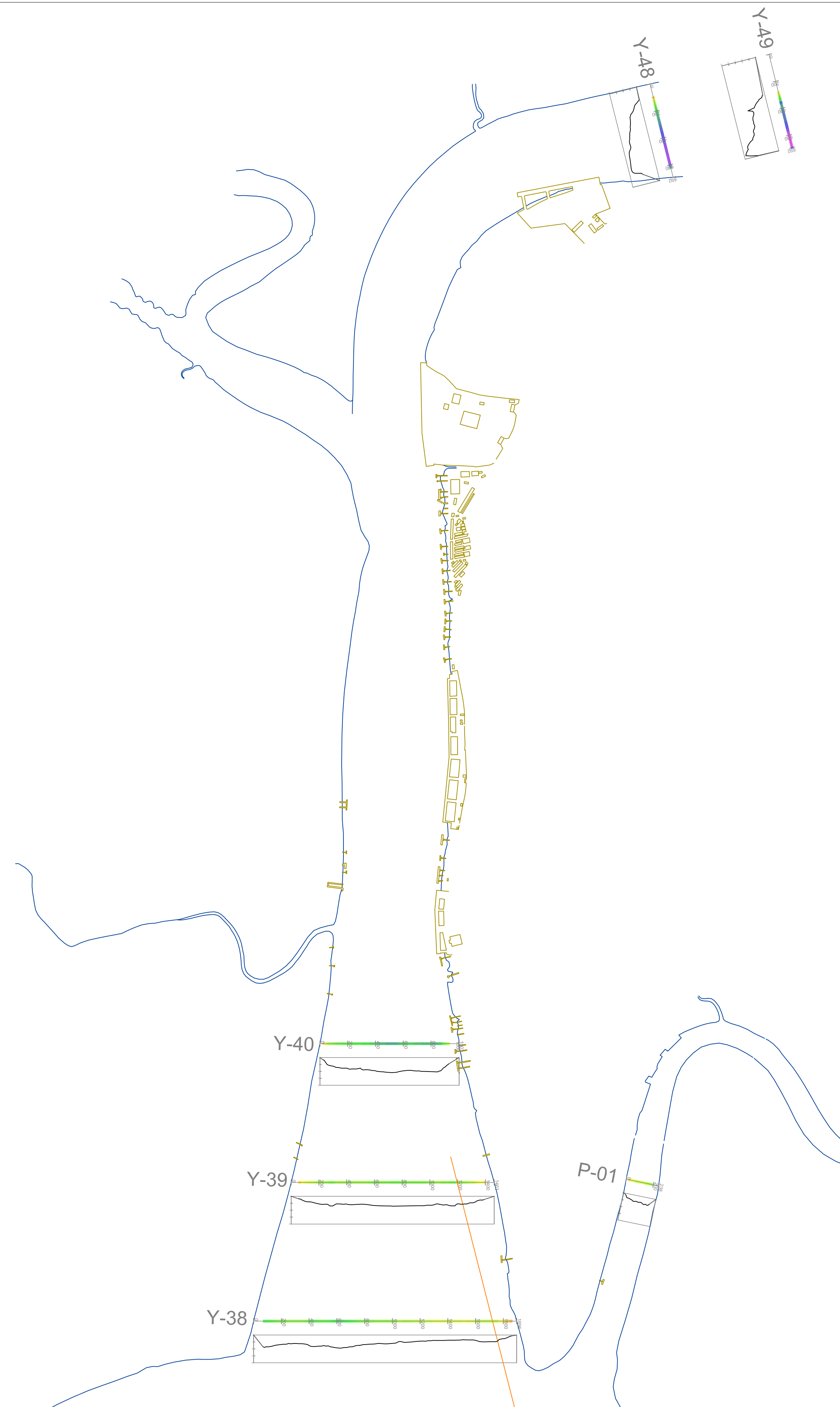
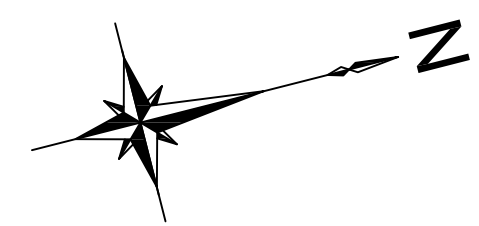
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The Yangon River and the Bago River (3/4)

Scale

1/20,000 (A1 Printing)
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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross section and colored map covering the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

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Chart Datum of Yangon Port

Revision

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Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

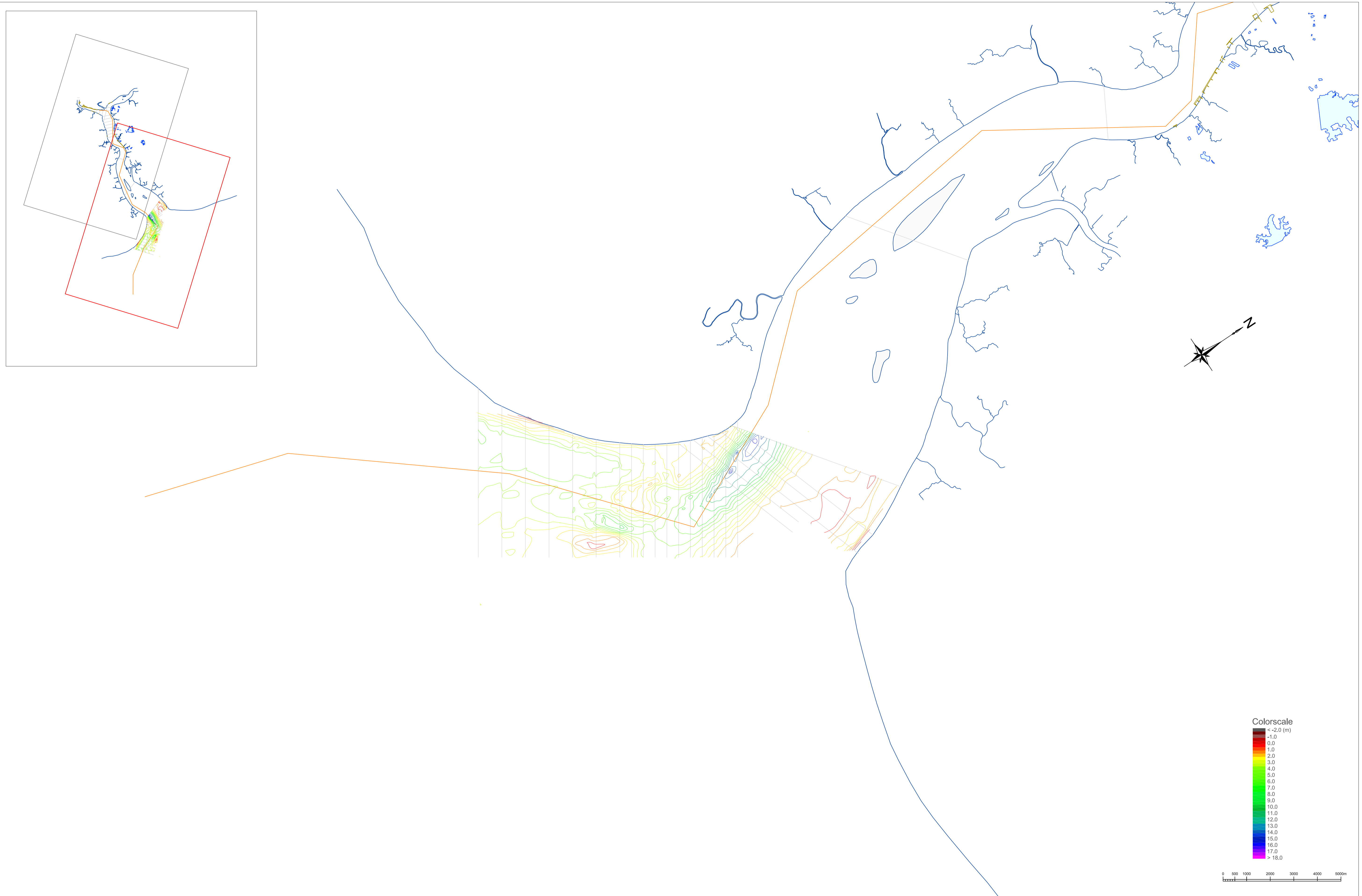
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Sheet No.

The Yangon River and the Bago River (4/4)

Scale

1/20,000 (A1 Printing)
1/40,000 (A3 Printing)



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ASIA AIR SURVEY Co., LTD.

CONTRACTOR



ARC GEO SUPPORT Co., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Bathymetric maps at the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

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Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

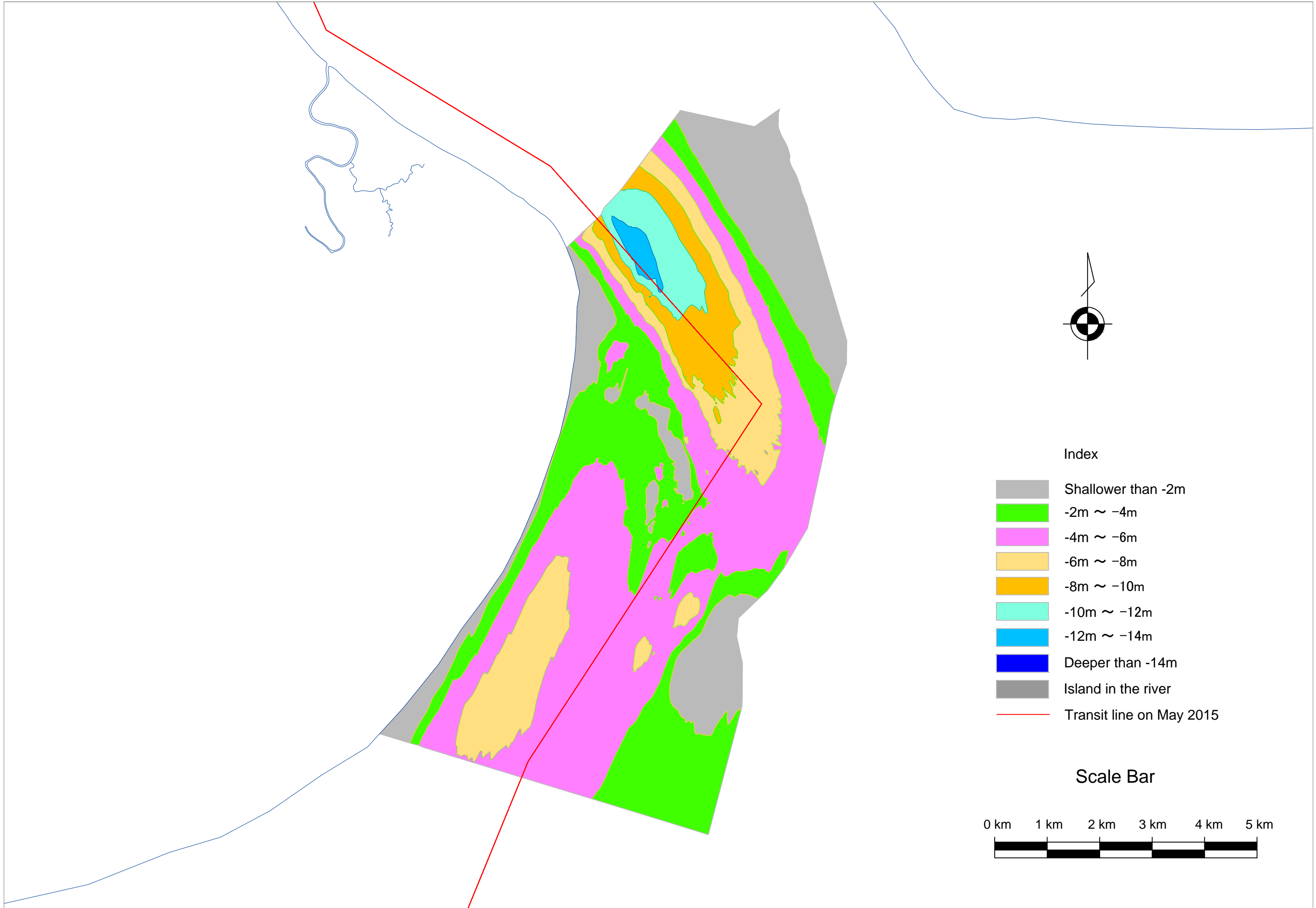
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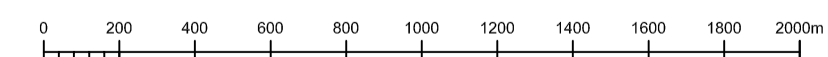
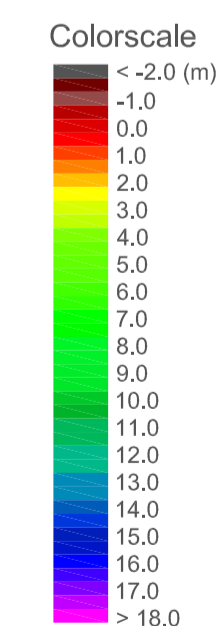
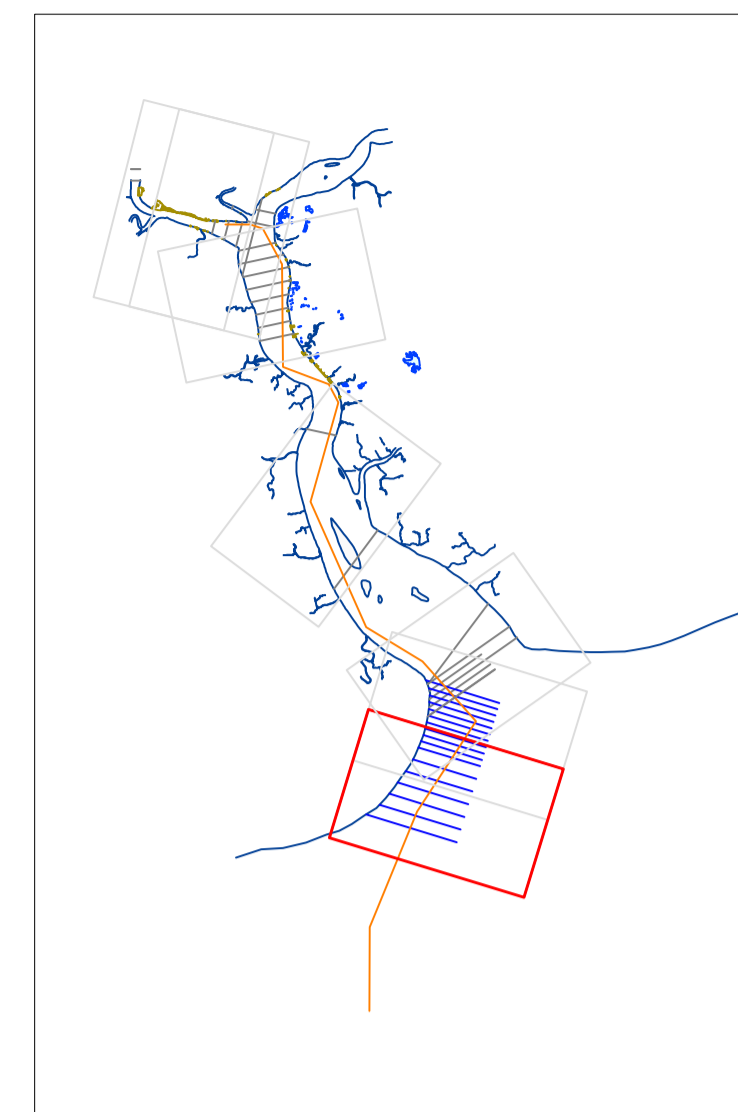
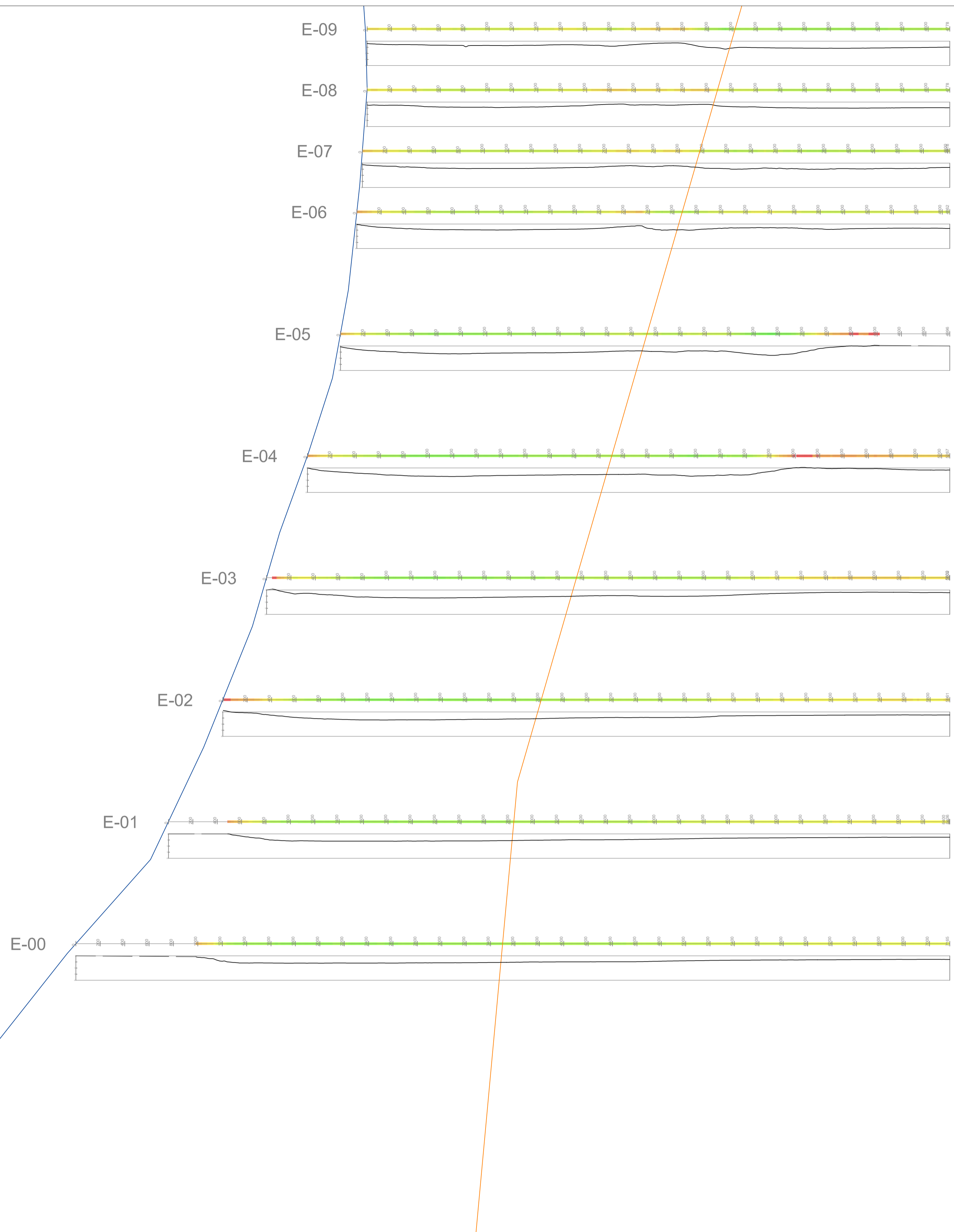
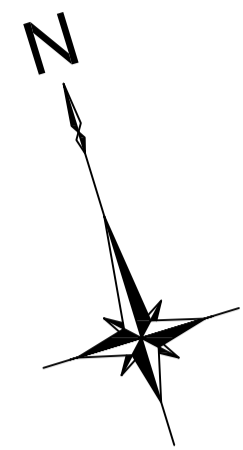
Sheet No.

River mouth area

Scale

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1/150,000 (A3 Printing)





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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Cross section and colored map covering the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

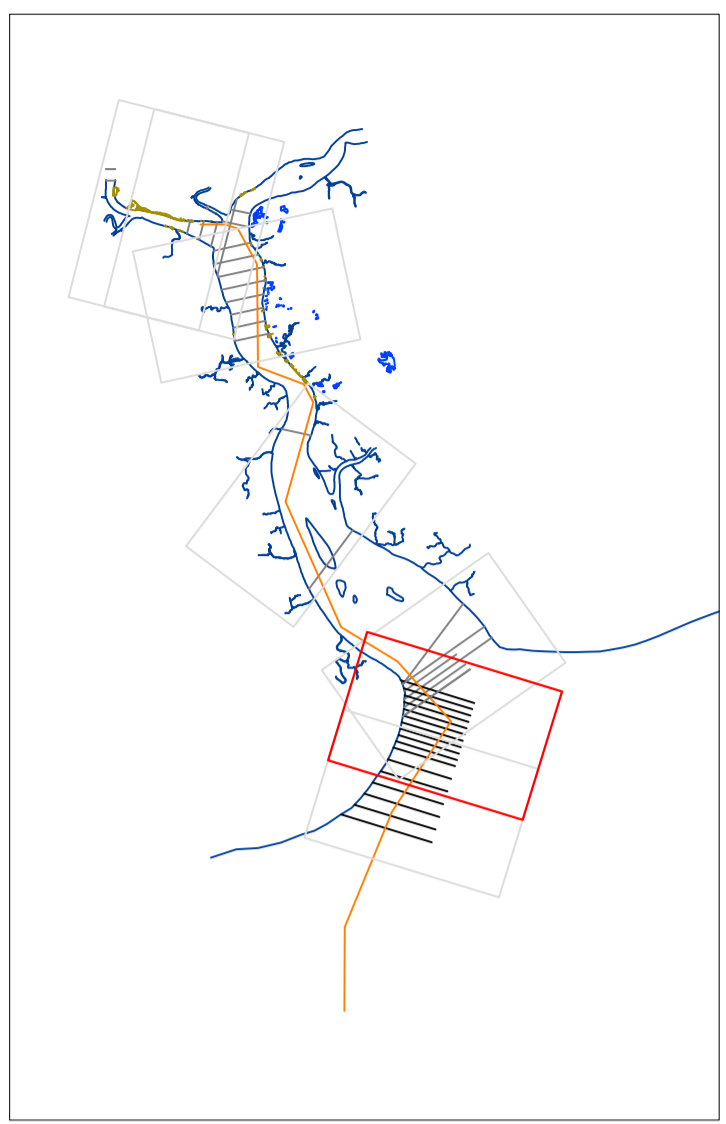
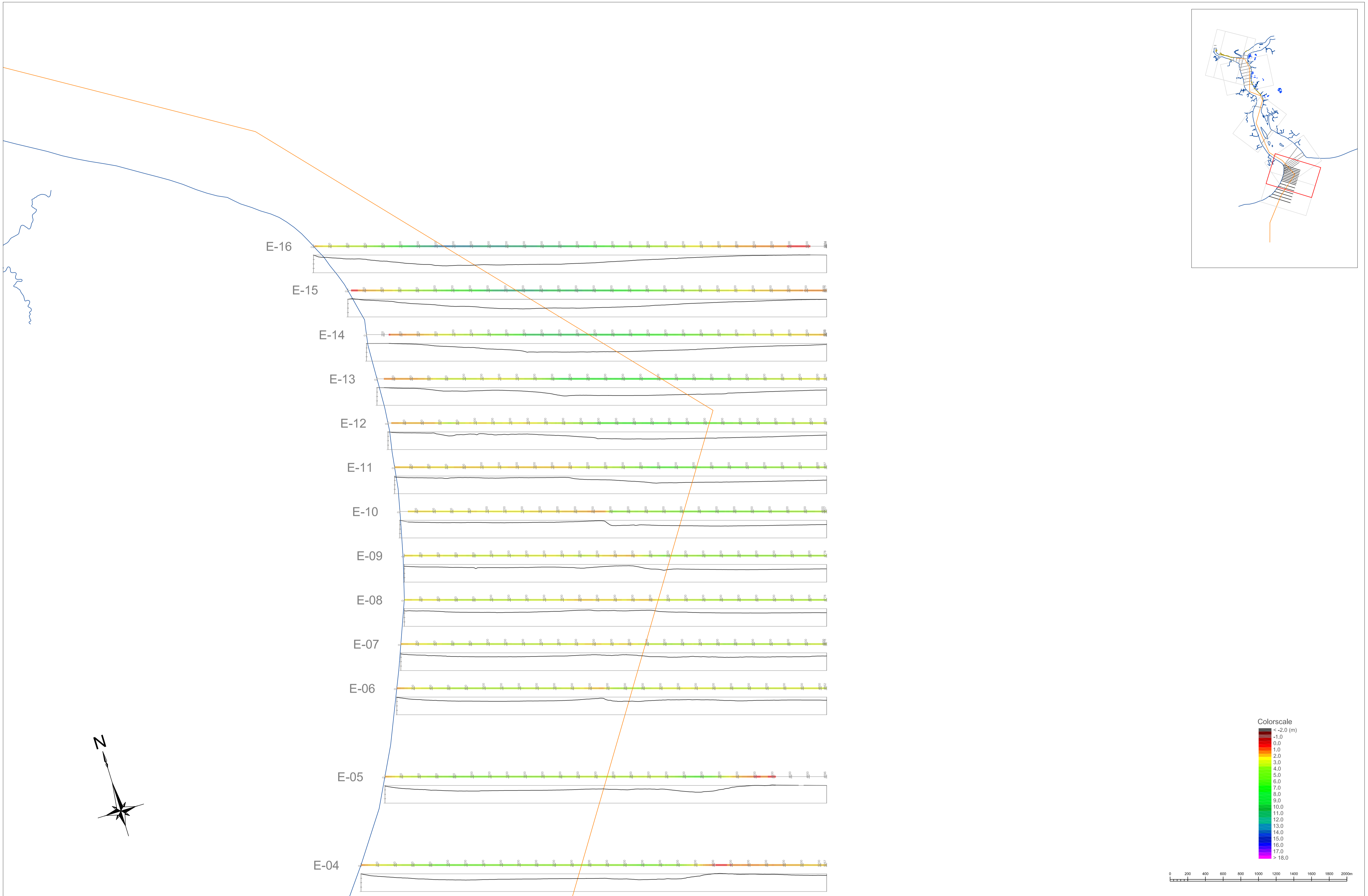
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River mouth area (1/3)

Scale

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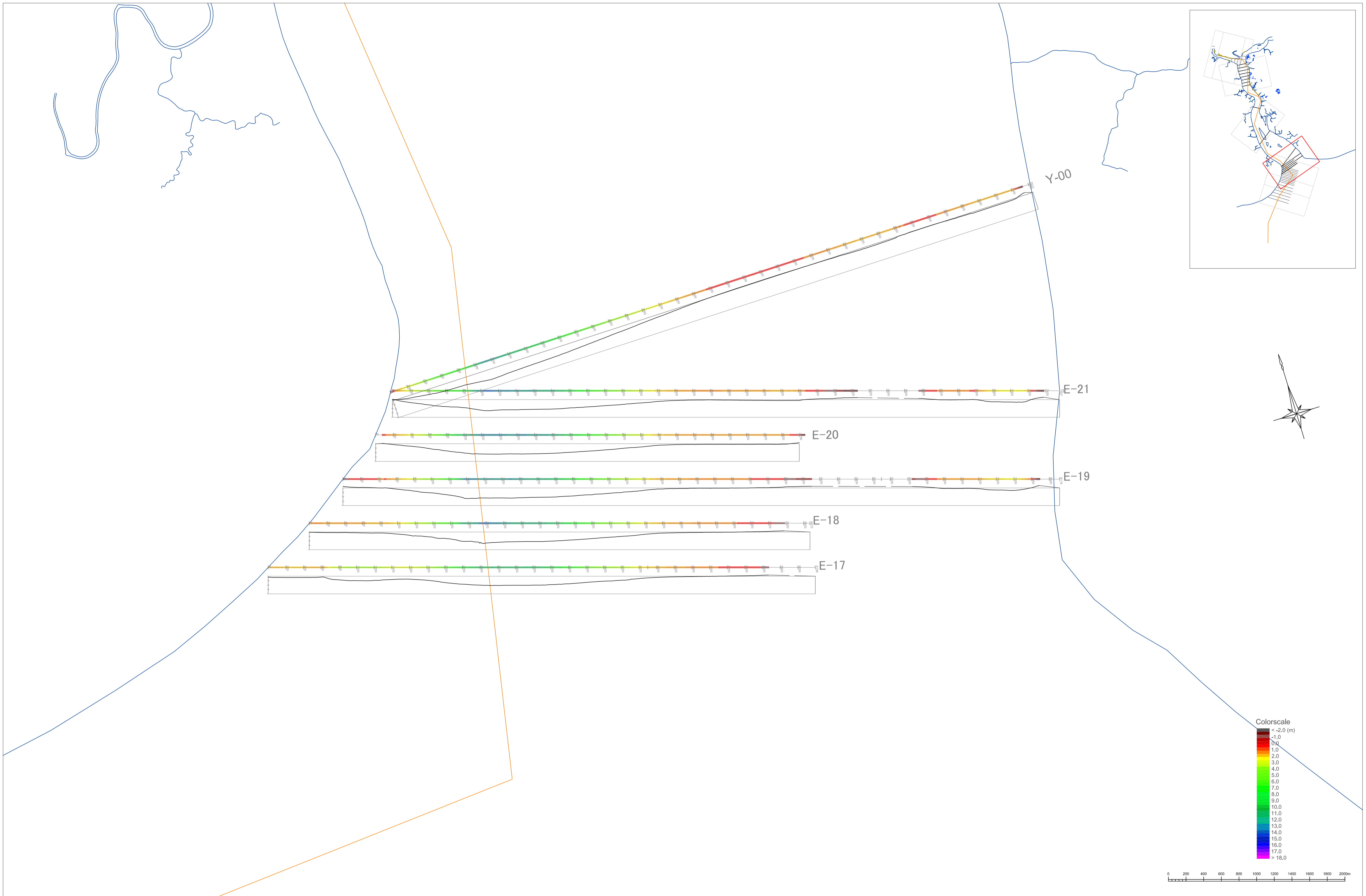


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 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
 CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
 Drawing Title
Cross section and colored map covering the river mouth area of the Yangon River after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
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Revision	1.0.0	Scale	1/20,000 (A1 Printing) 1/40,000 (A3 Printing)



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Cross section and colored map covering the river mouth area of the Yangon River after rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

31 Jan 2016

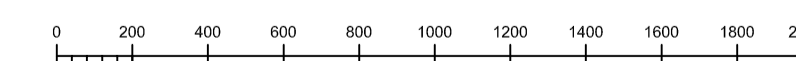
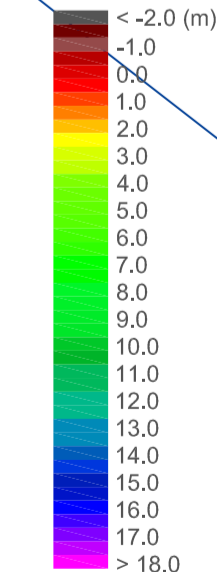
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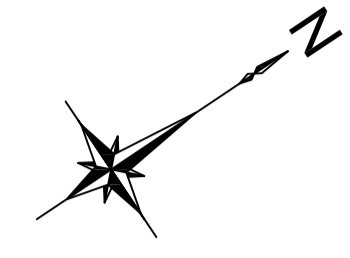
River mouth area (3/3)

Scale

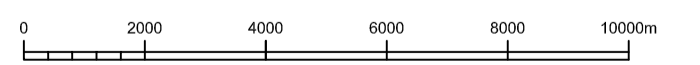
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1/40,000 (A3 Printing)

Colorscale





Survey area



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ARC GEO SUPPORT CO., LTD.

Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Location map of the bathymetric survey area at Monkey Point before and after rainy seasons

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

31 Jan 2016

Date of Drawing

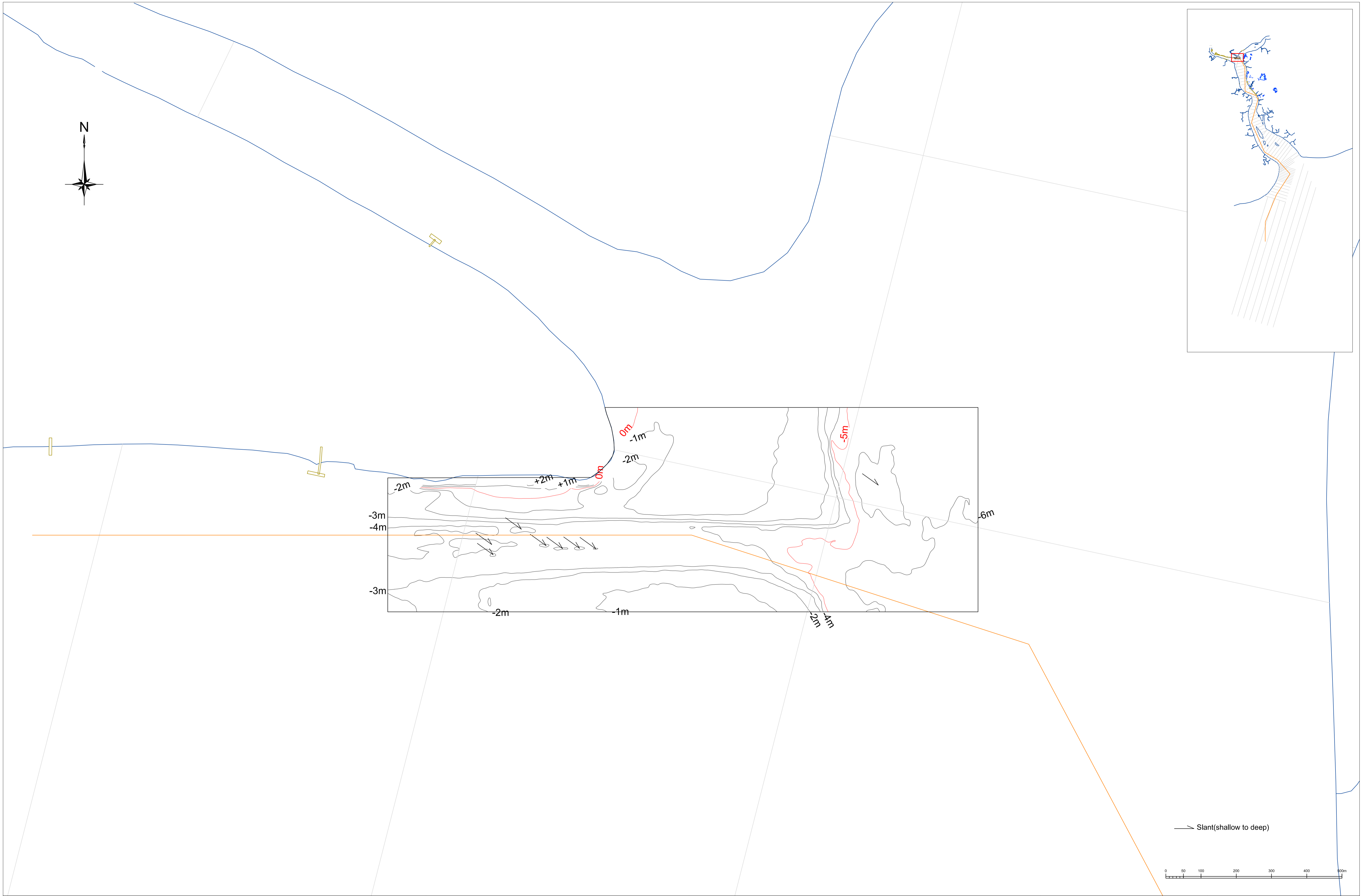
31 Jan 2016

Sheet No.

Monkey Point

Scale

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1/250,000 (A3 Printing)

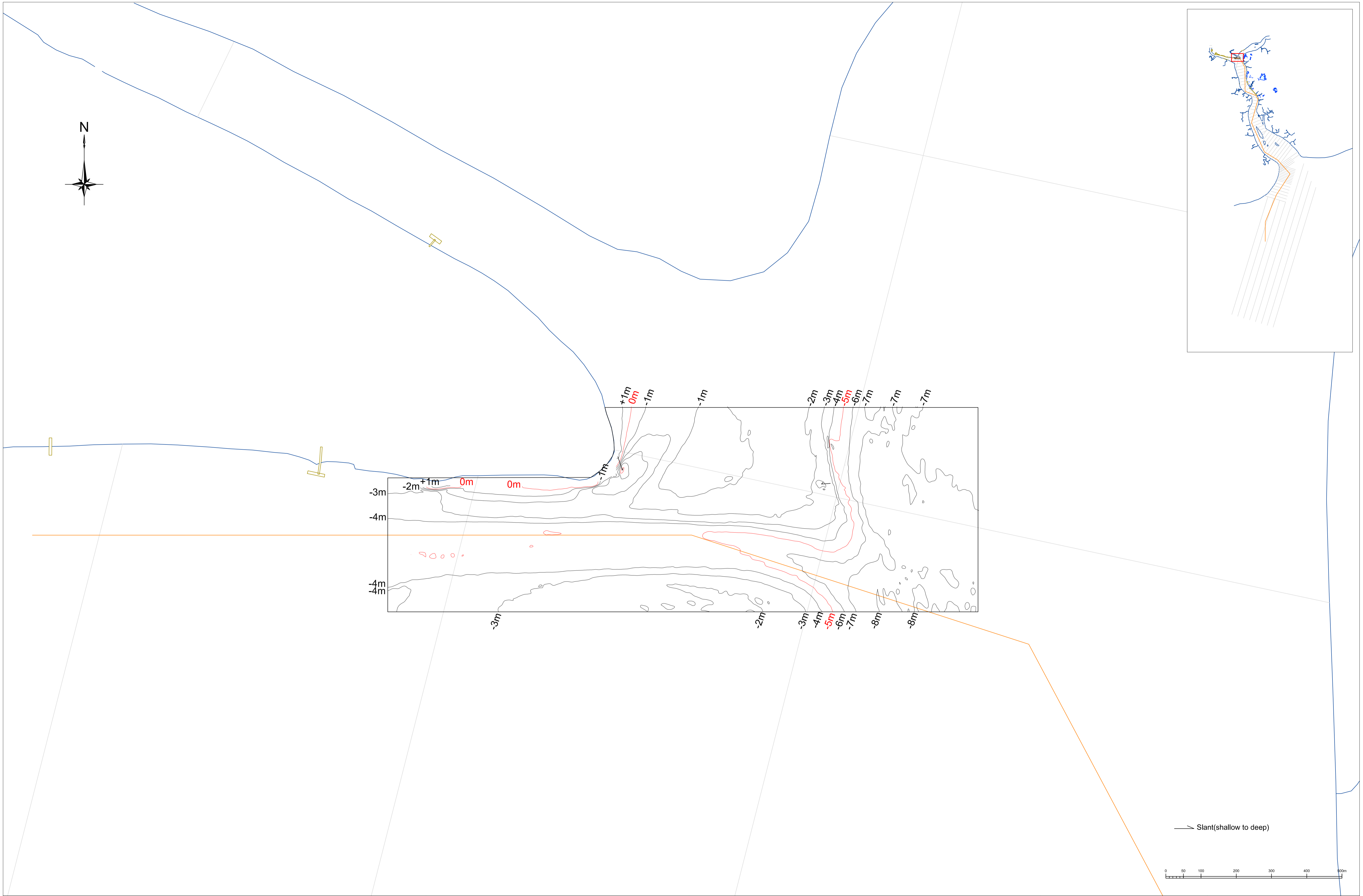


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CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
 The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title
 Bathymetric maps at Monkey Point before rainy season

Projection	UTM Zone 47 N	Date of Survey	From 06 May 2015 to 07 Jun 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Monkey Point
Revision	1.0.0	Scale	1/5,000 (A1 Printing) 1/10,000 (A3 Printing)

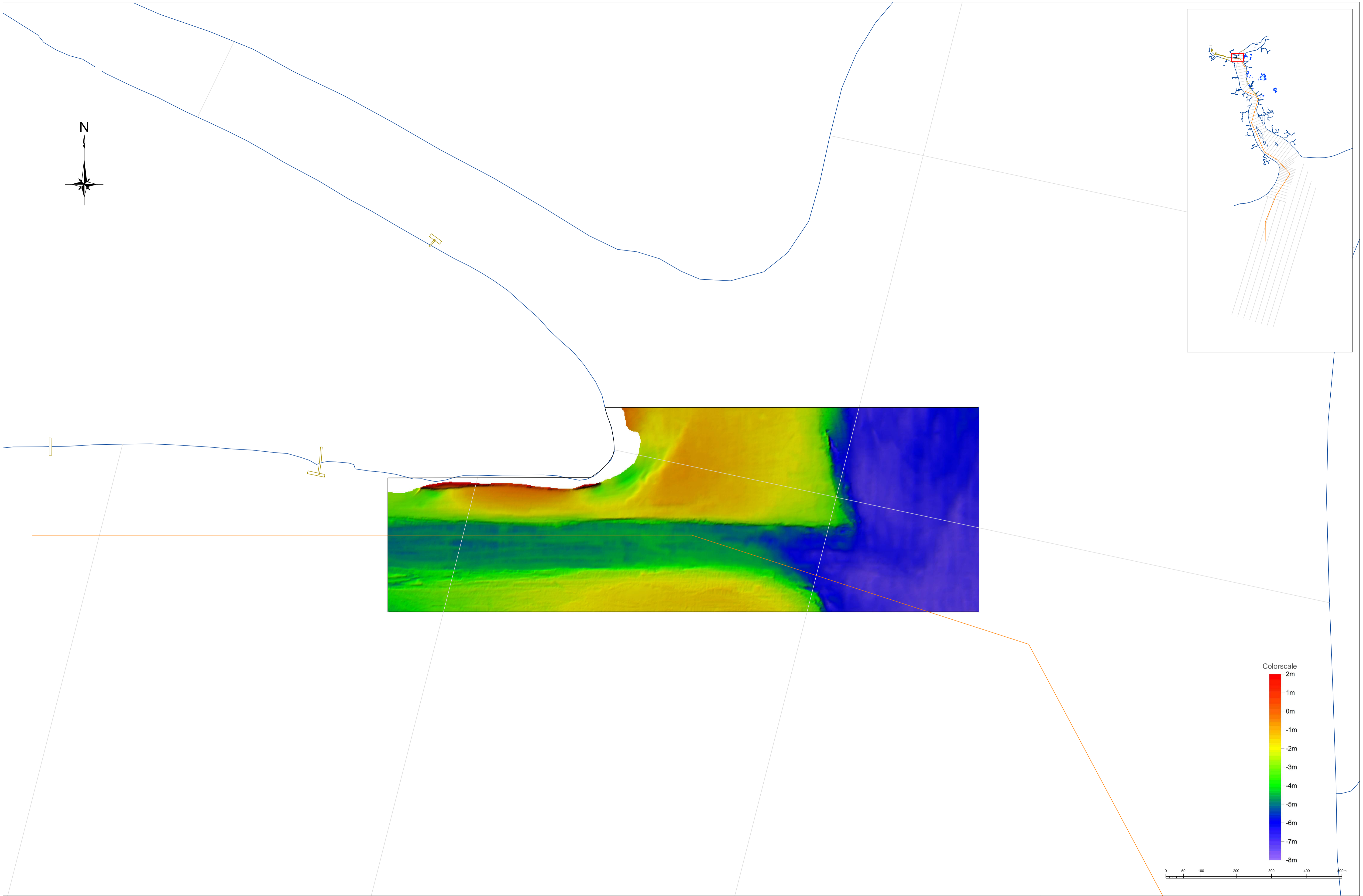


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 ARC GEO SUPPORT CO., LTD.

Project Name: **The Data Collection Survey for Improvement of Navigation Channel of Yangon Port**
 Drawing Title: **Bathymetric maps at Monkey Point after rainy season**

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Monkey Point
Revision	1.0.0	Scale	1/5,000 (A1 Printing) 1/10,000 (A3 Printing)



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Project Name

The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

Drawing Title

Color maps at Monkey Point before rainy season

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 06 May 2015 to 07 Jun 2015

Date of Drawing

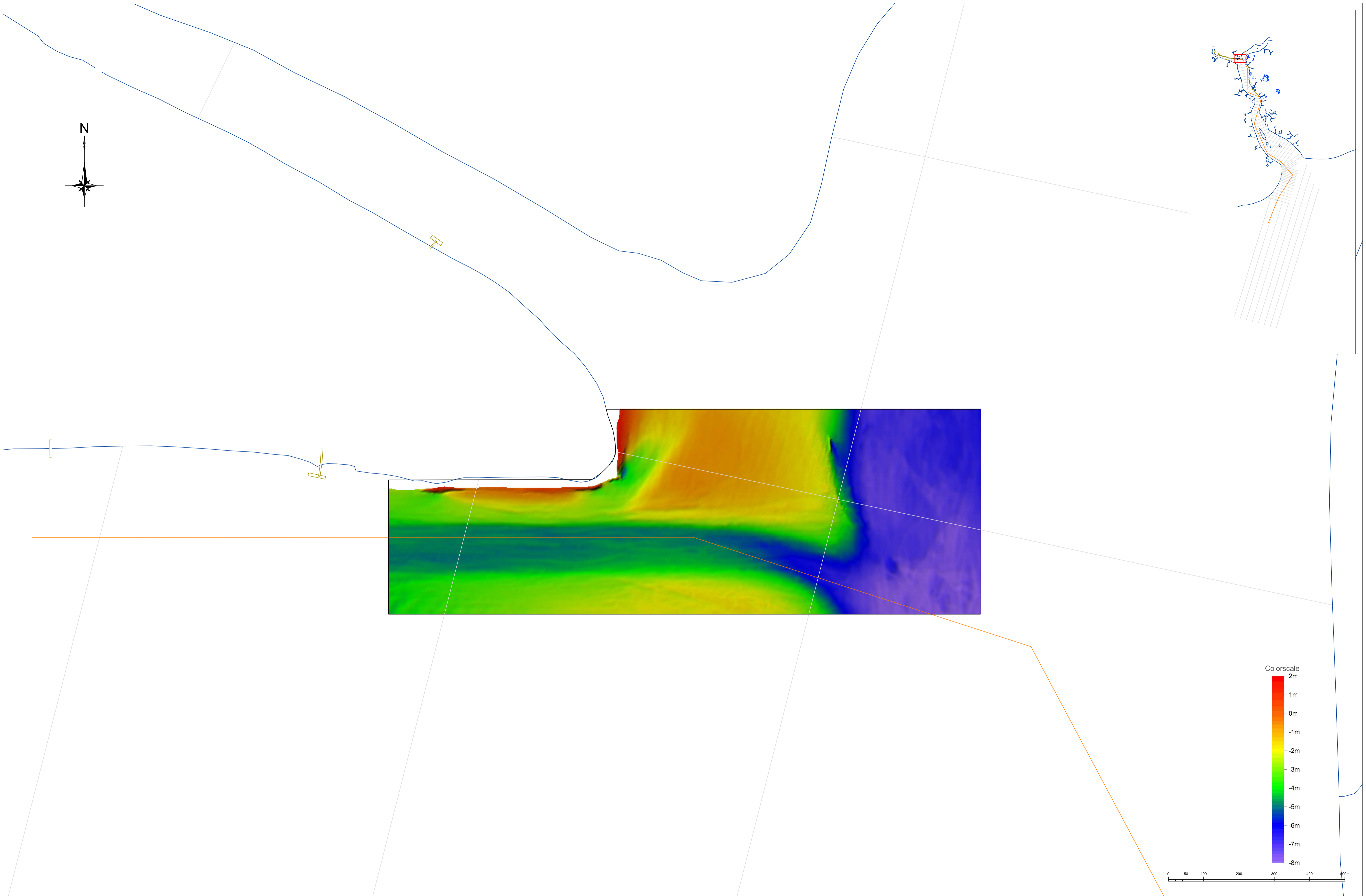
31 Jan 2016

Sheet No.

Monkey Point

Scale

1/5,000 (A1 Printing)
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Drawing Title

Color maps at Monkey Point after rainy season

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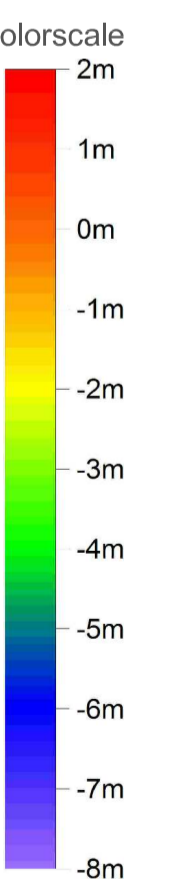
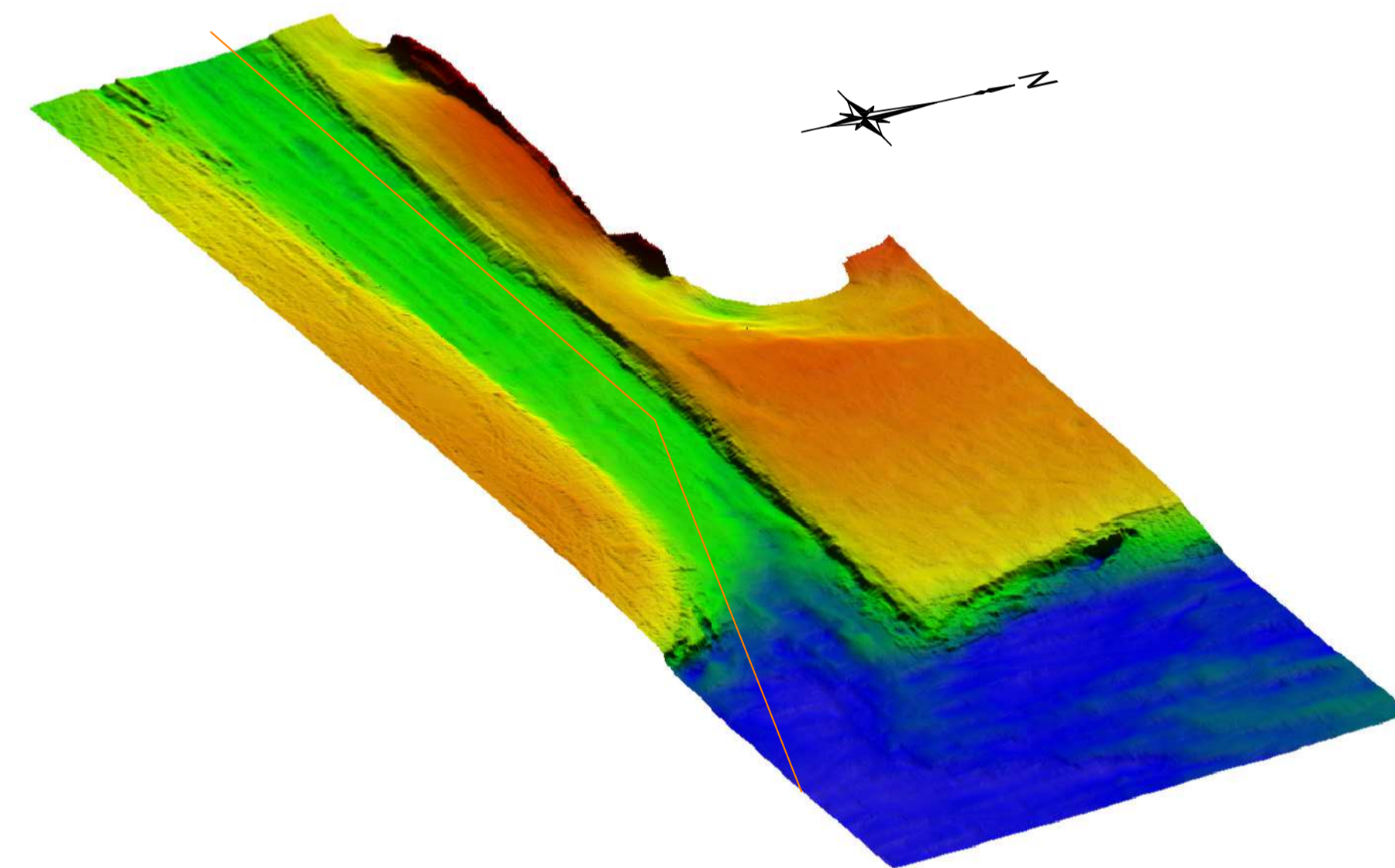
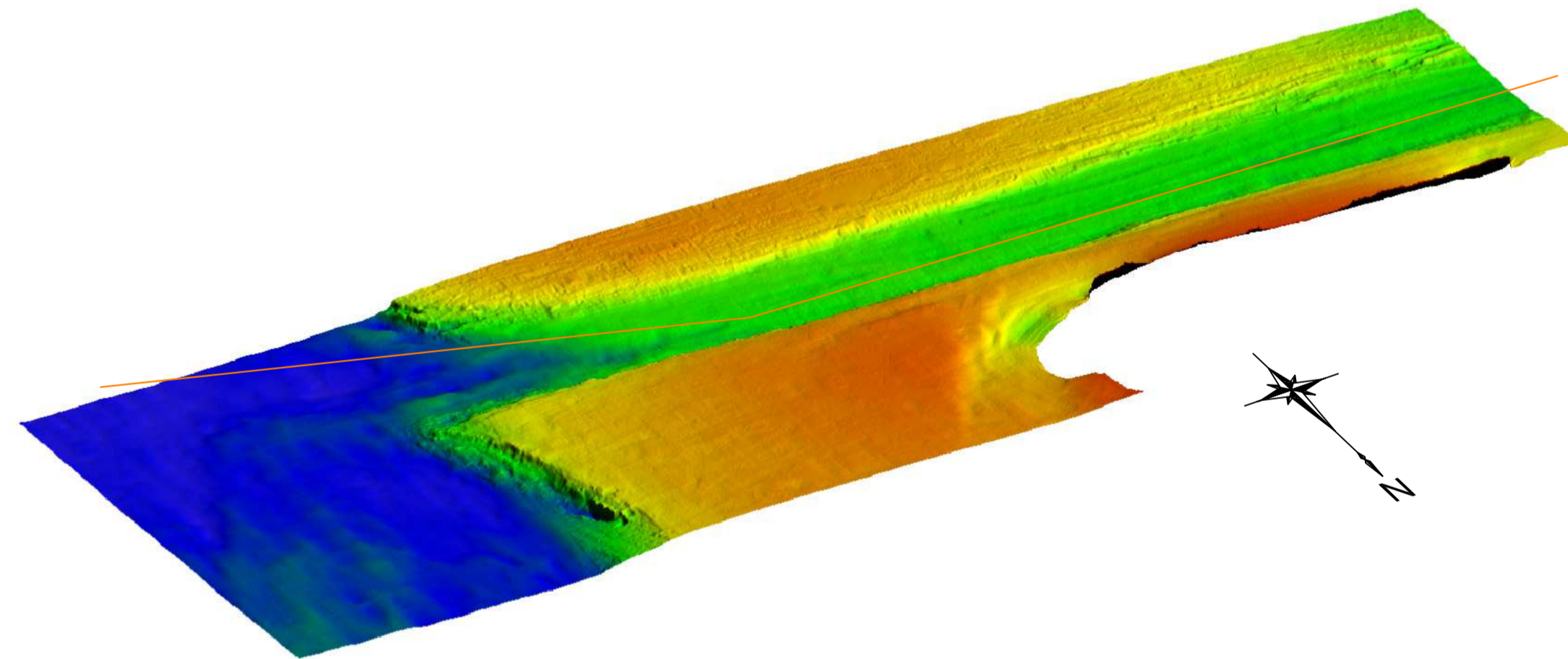
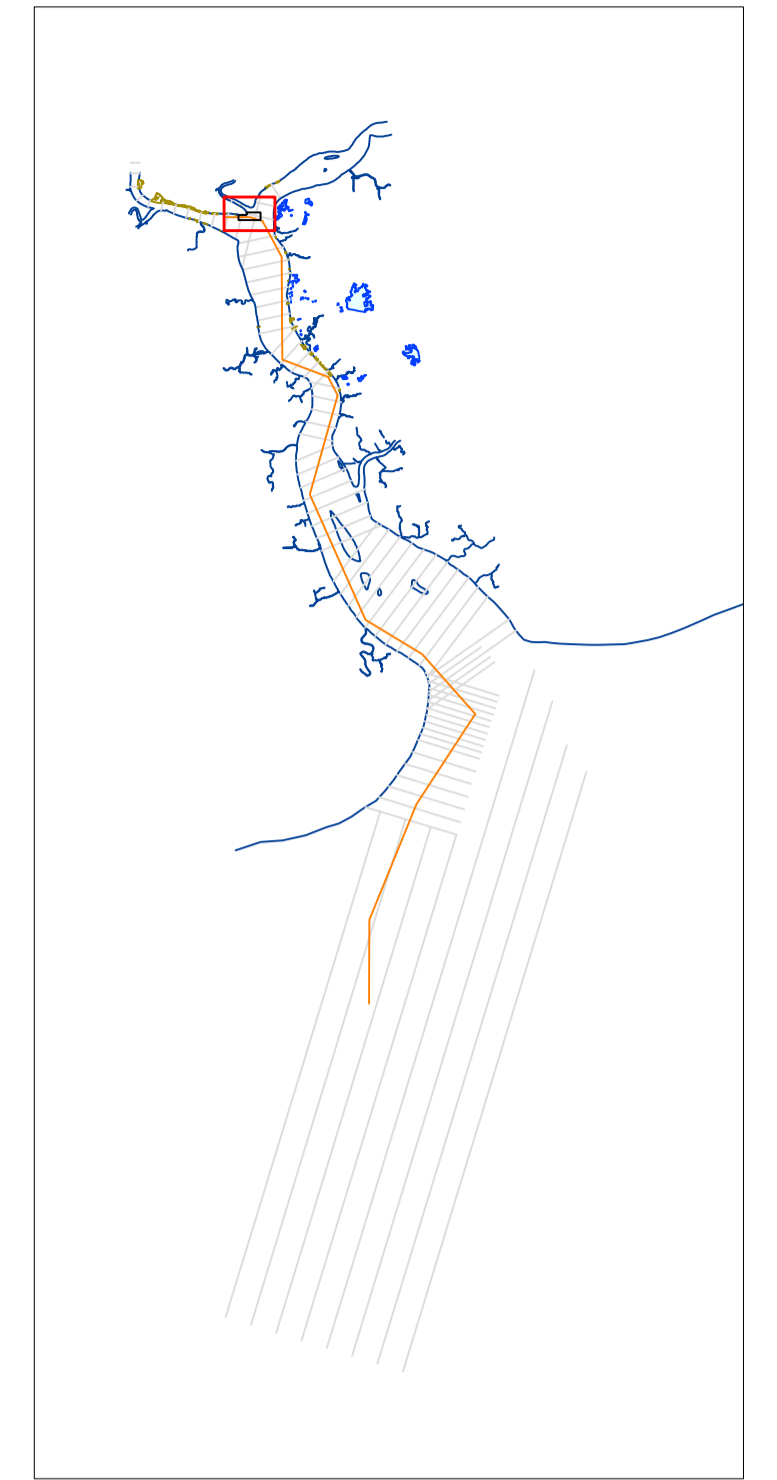
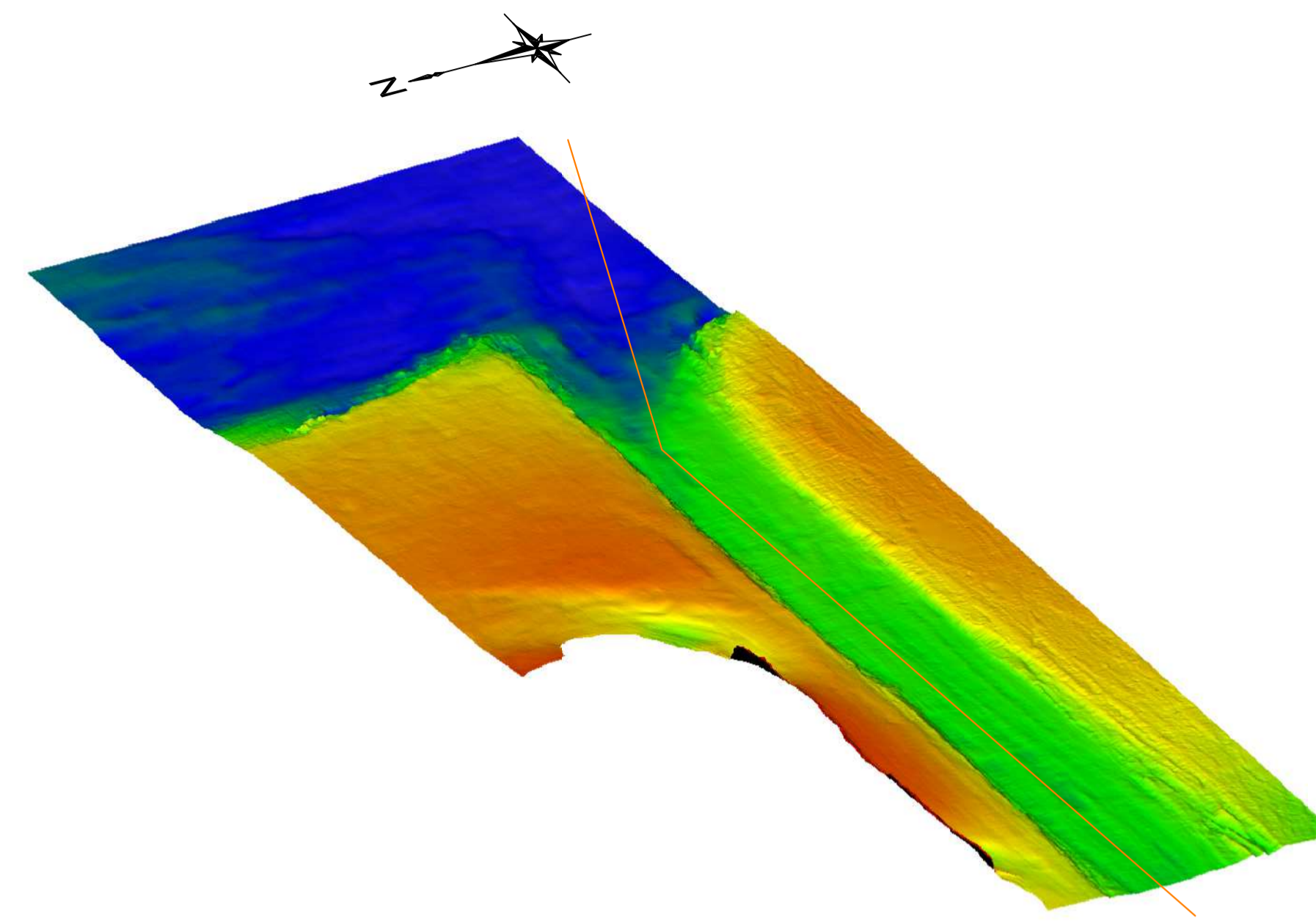
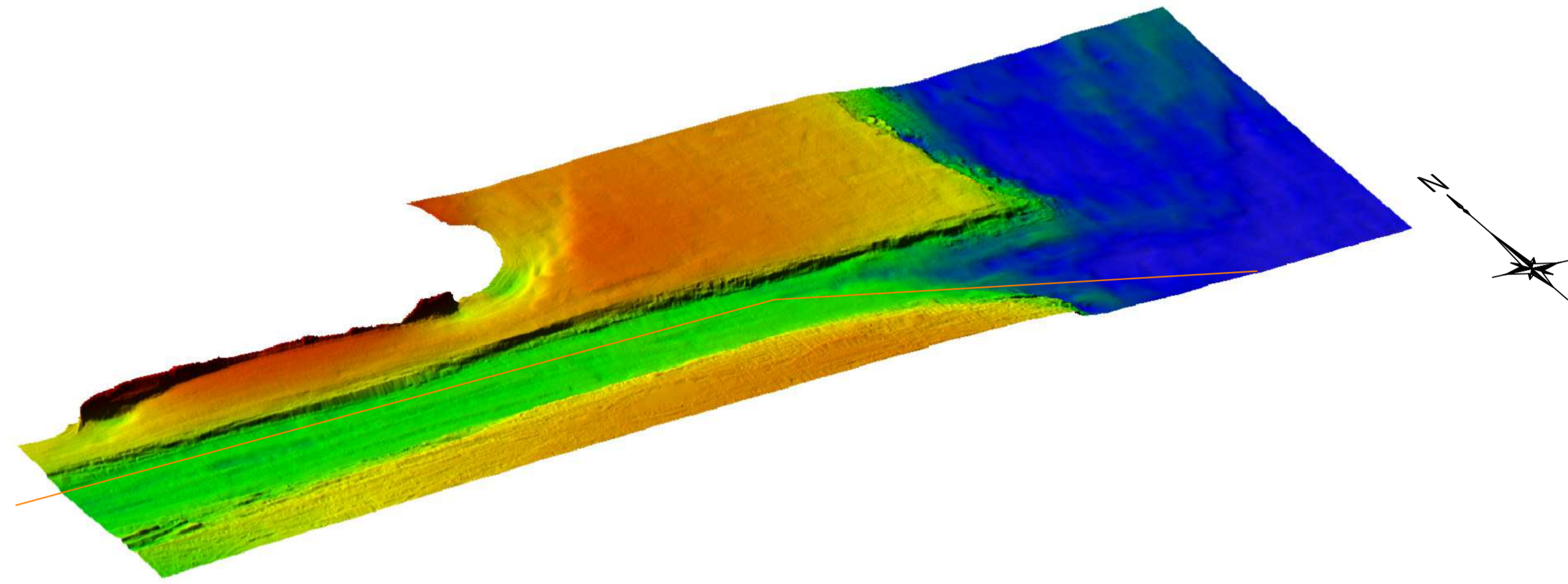
31 Jan 2016

Sheet No.

Monkey Point

Scale

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1/10,000 (A3 Printing)

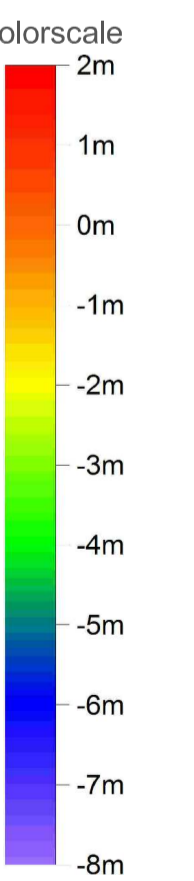
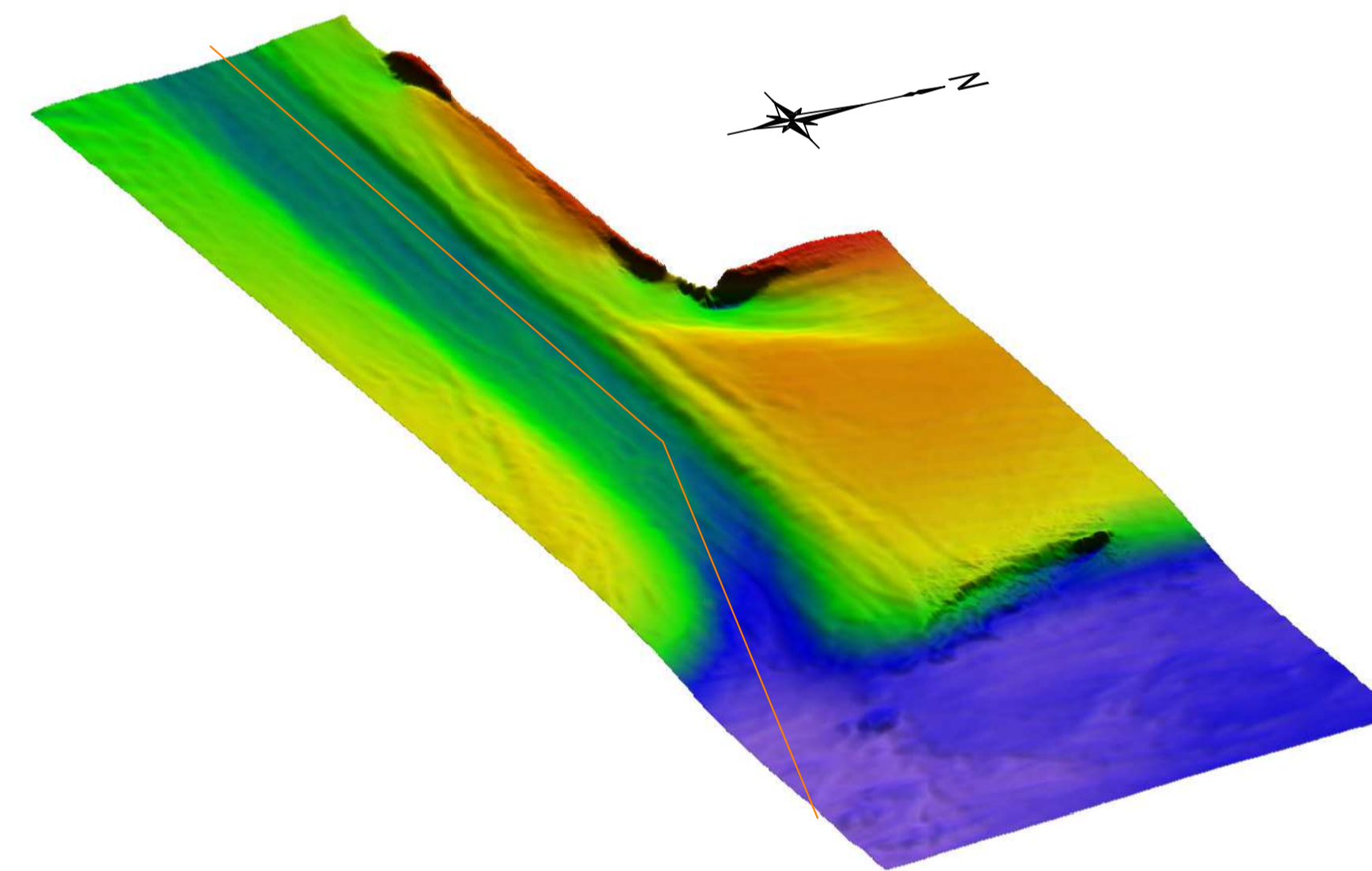
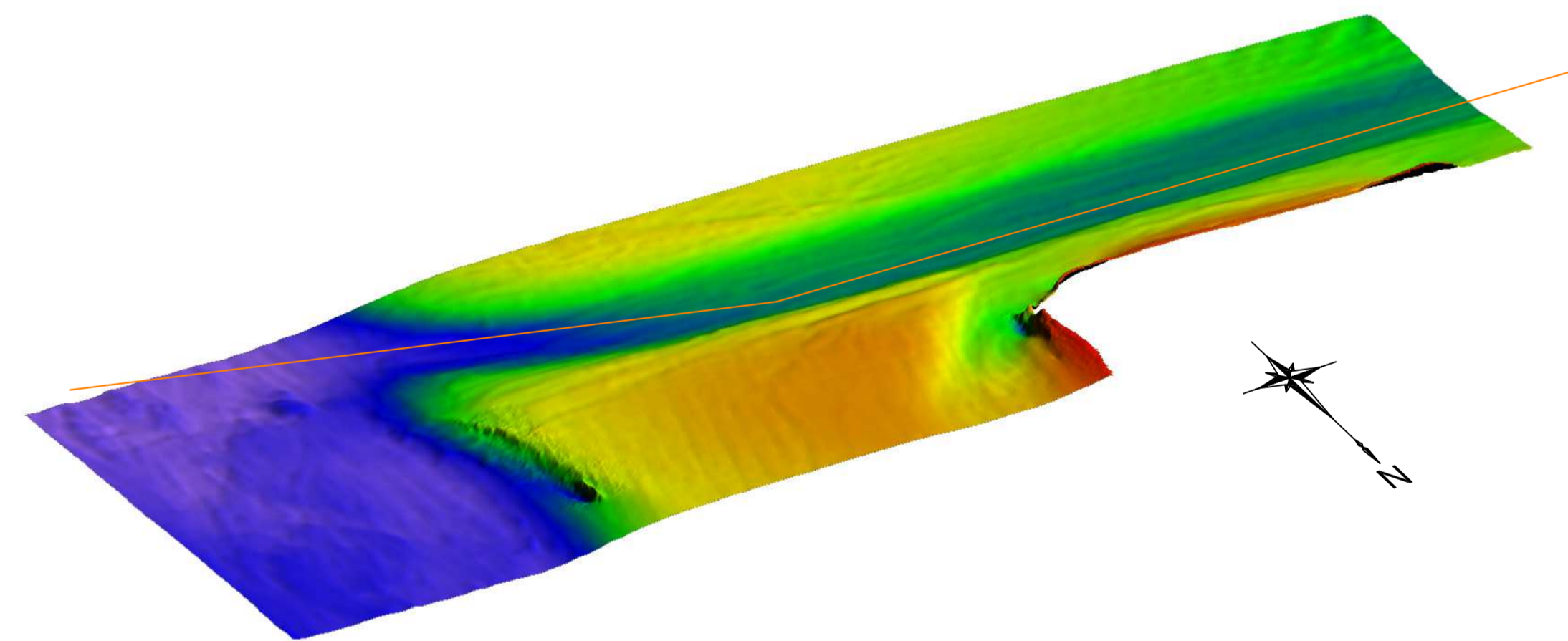
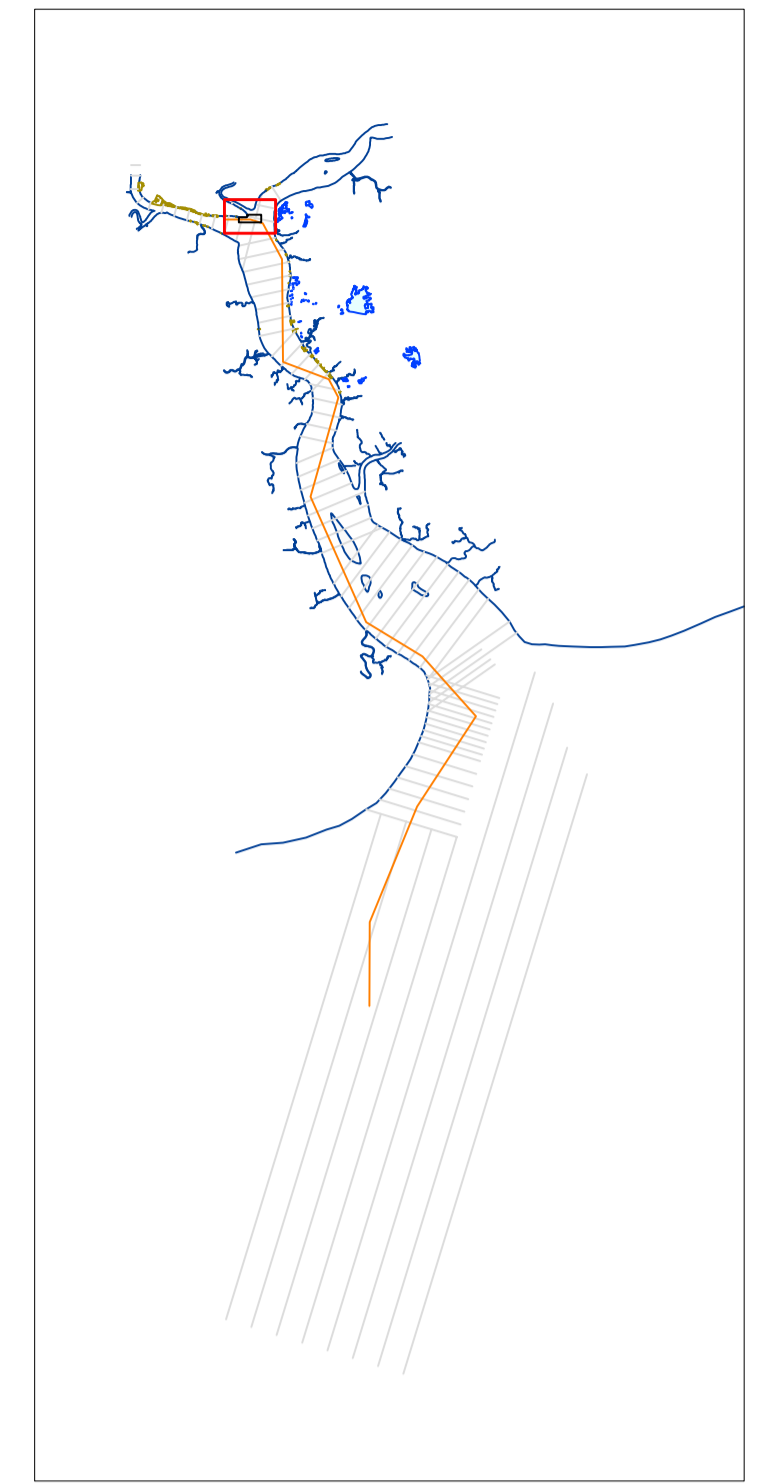
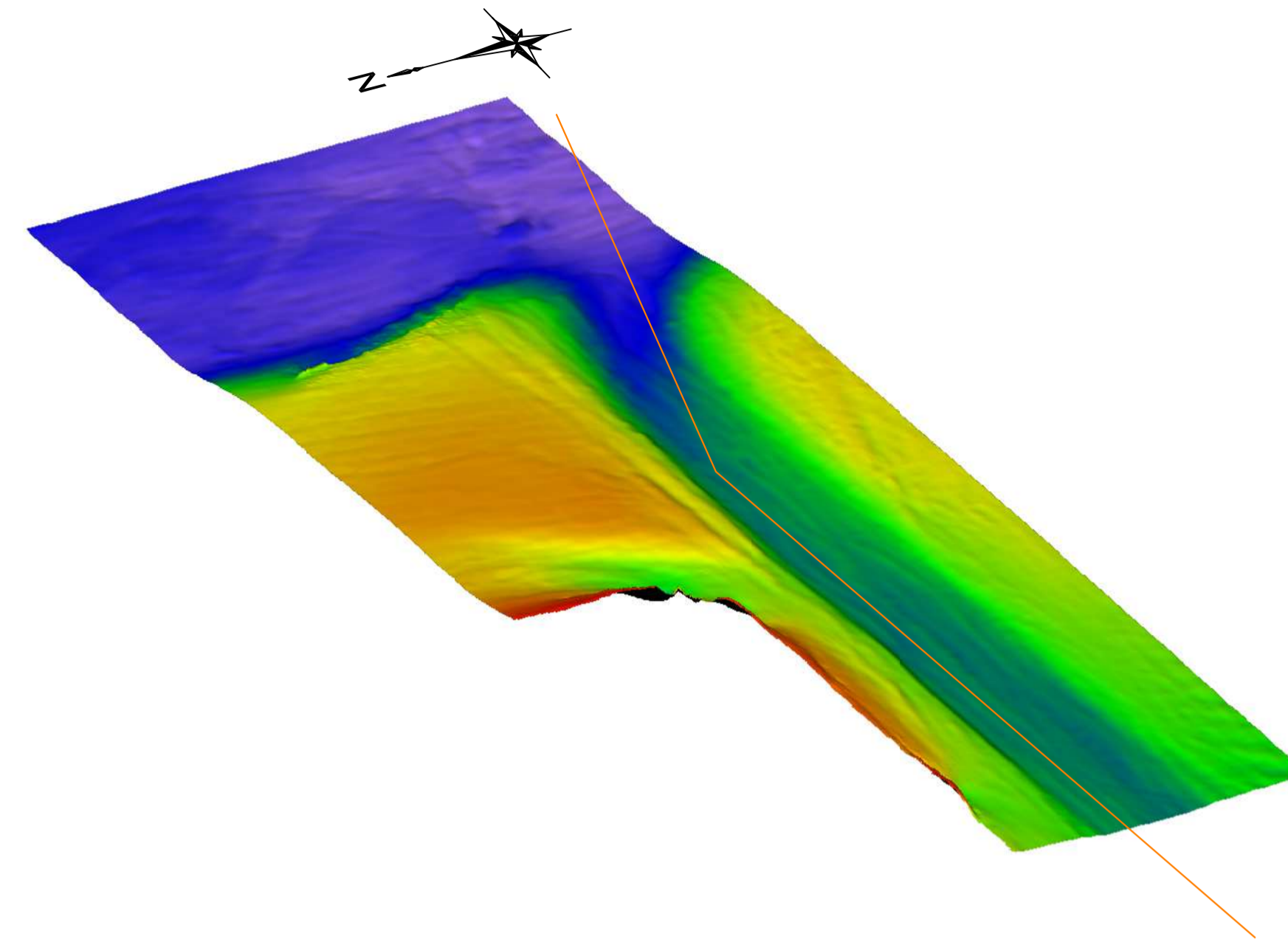
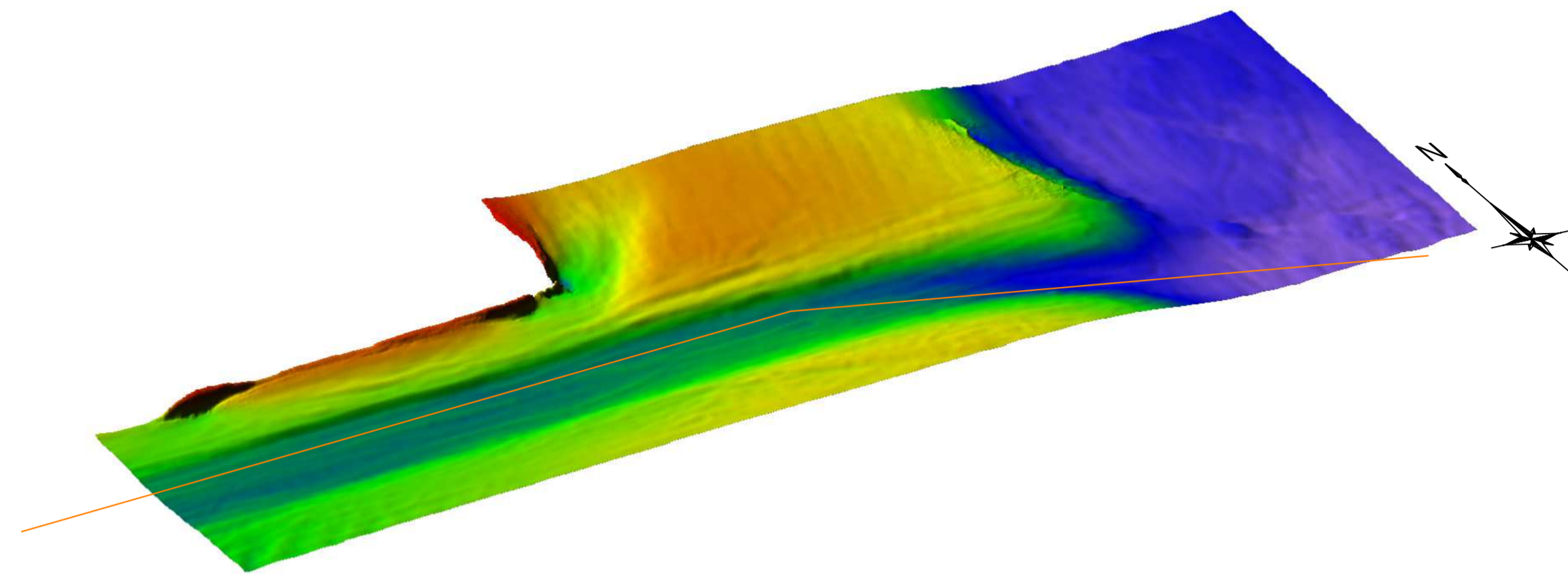


MYANMA PORT AUTHORITY (MPA)
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JICA STUDY TEAM
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
 CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
 Drawing Title
Bird-eye view maps at Monkey Point before rainy season

Projection	UTM Zone 47 N	Date of Survey	From 06 May 2015 to 07 Jun 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Monkey Point
Revision	1.0.0	Scale	1/5,000 (A1 Printing) 1/10,000 (A3 Printing)



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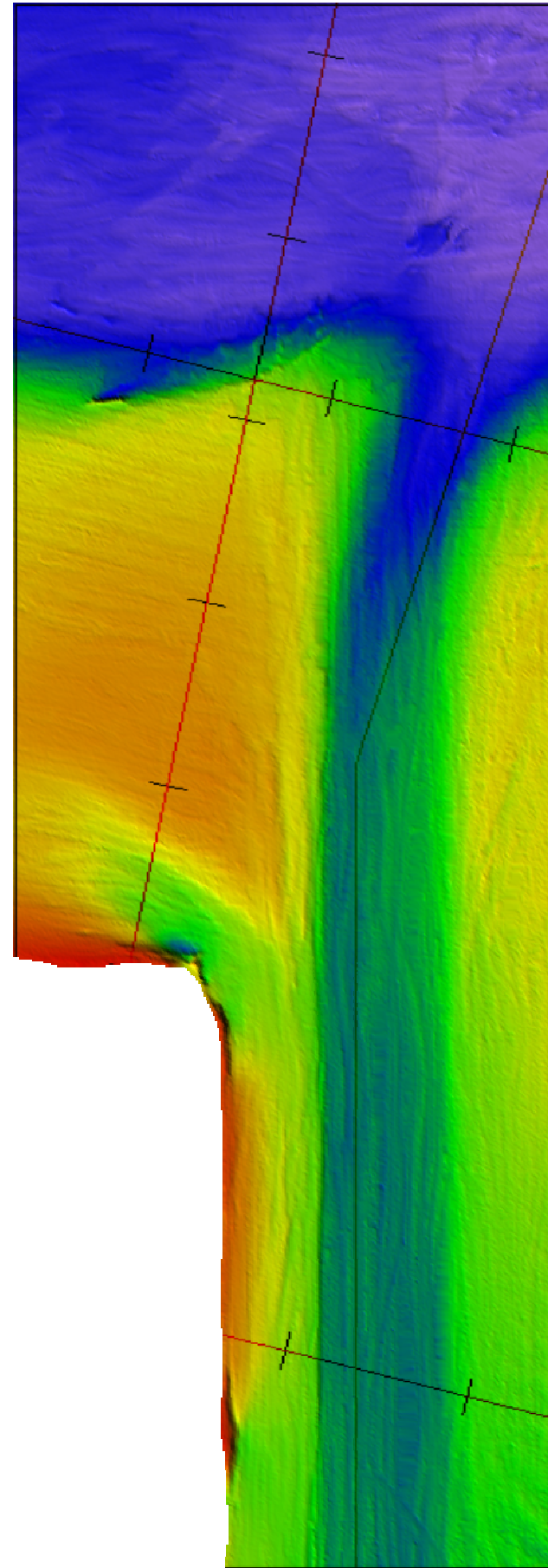
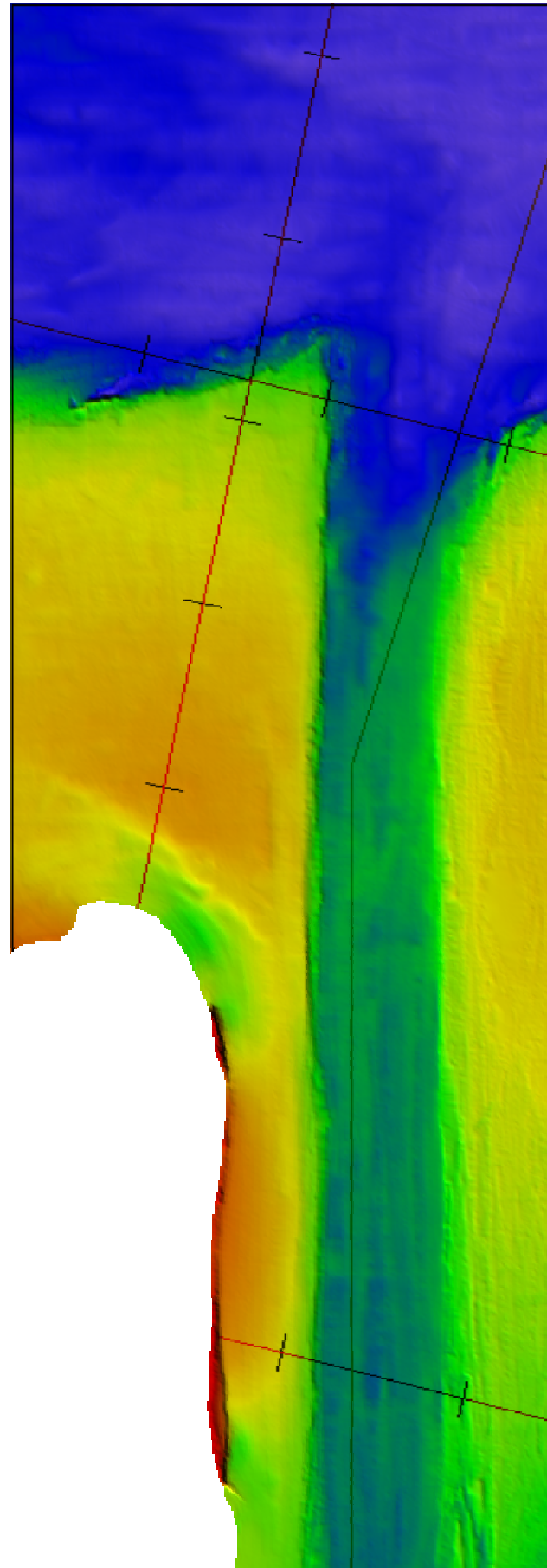
JICA STUDY TEAM
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
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 ARC GEO SUPPORT CO., LTD.

Project Name
 The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
 Drawing Title
 Bird-eye view maps at Monkey Point after rainy season

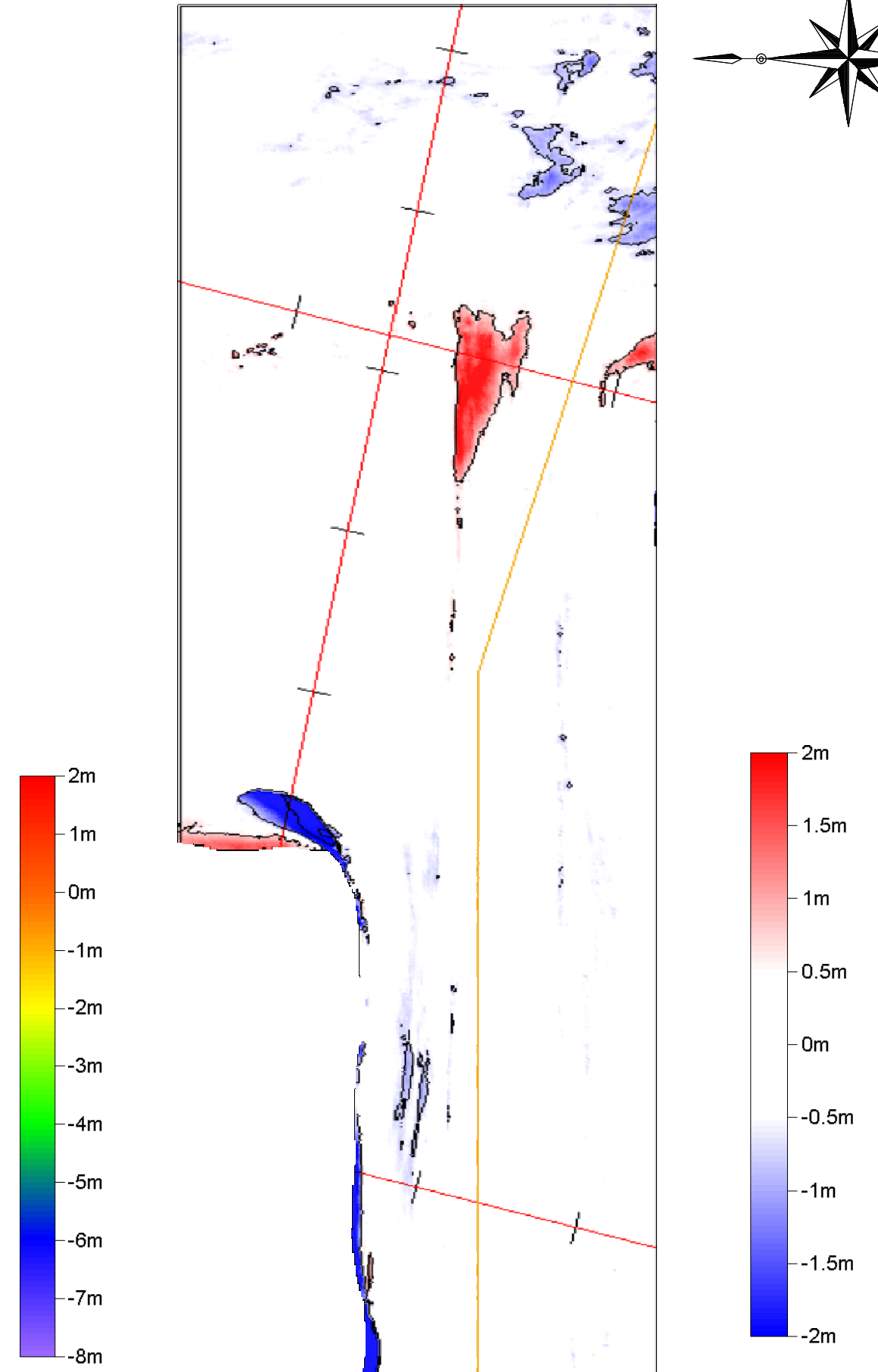
Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Monkey Point
Revision	1.0.0	Scale	1/5,000 (A1 Printing) 1/10,000 (A3 Printing)

Monkey Point

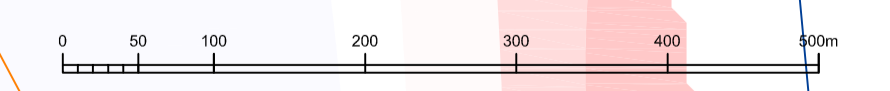
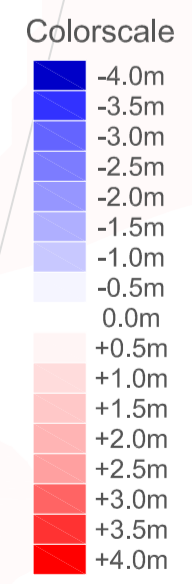
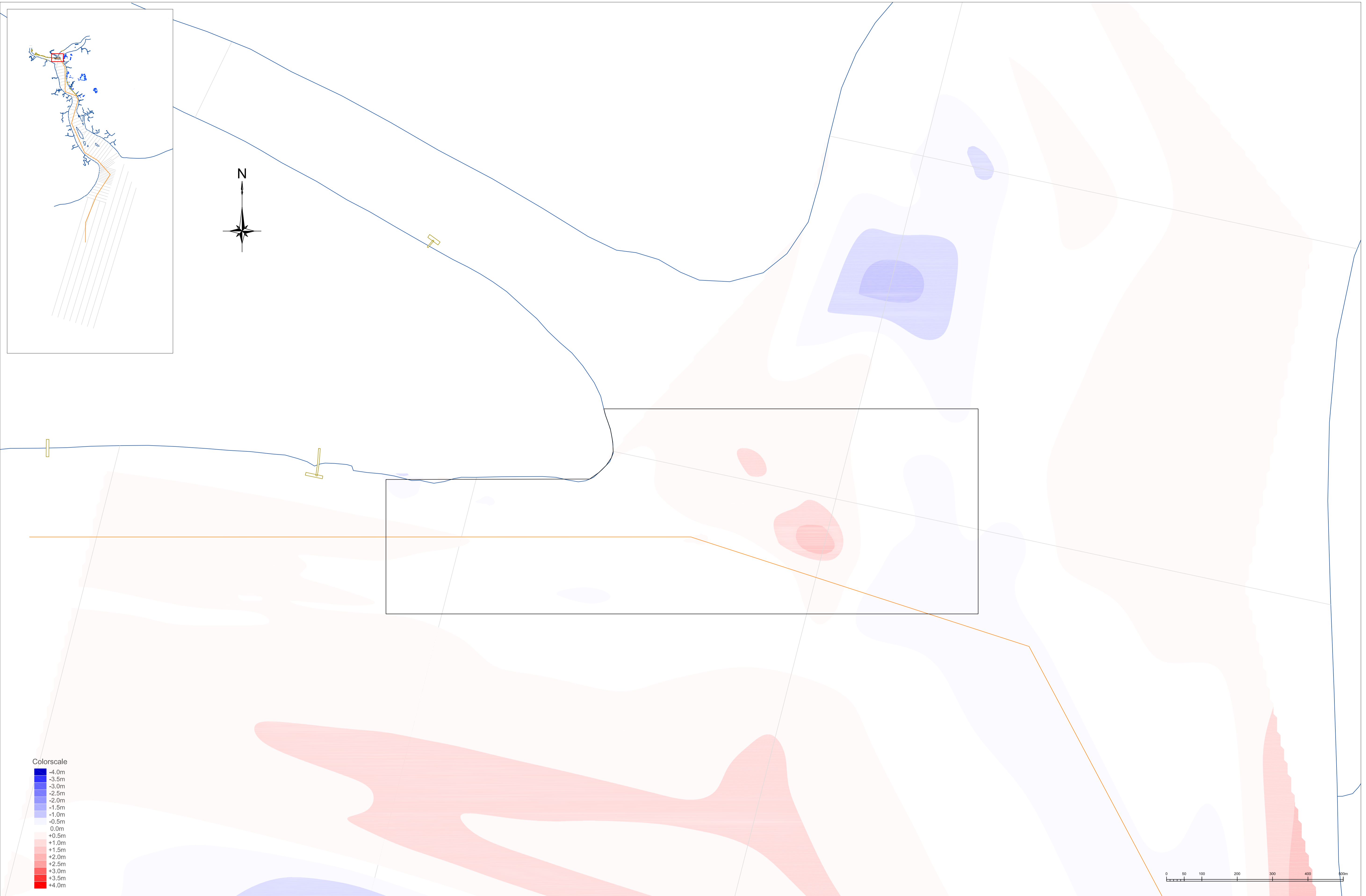
Before Rainy Season



Difference of Water Depth



YANGON RIVER SURVEY



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JICA STUDY TEAM	
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CONTRACTOR	
	ARC GEO SUPPORT CO., LTD.

Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Water depth changes between before and after rainy seasons at Monkey Point

Projection	UTM Zone 47 N	Date of Survey	From 06 May 2015 to 07 Jun 2015 From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	31 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Monkey Point
Revision	1.0.0	Scale	1/5,000 (A1 Printing) 1/10,000 (A3 Printing)