

E-00	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 811 013.26	210 104.47	0
Transit Line	1 808 989.45	213 449.92	3 499
Left Bank	1 808 916.43	216 956.11	7 165

— Before Rainy Season  
— After Rainy Season



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

Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

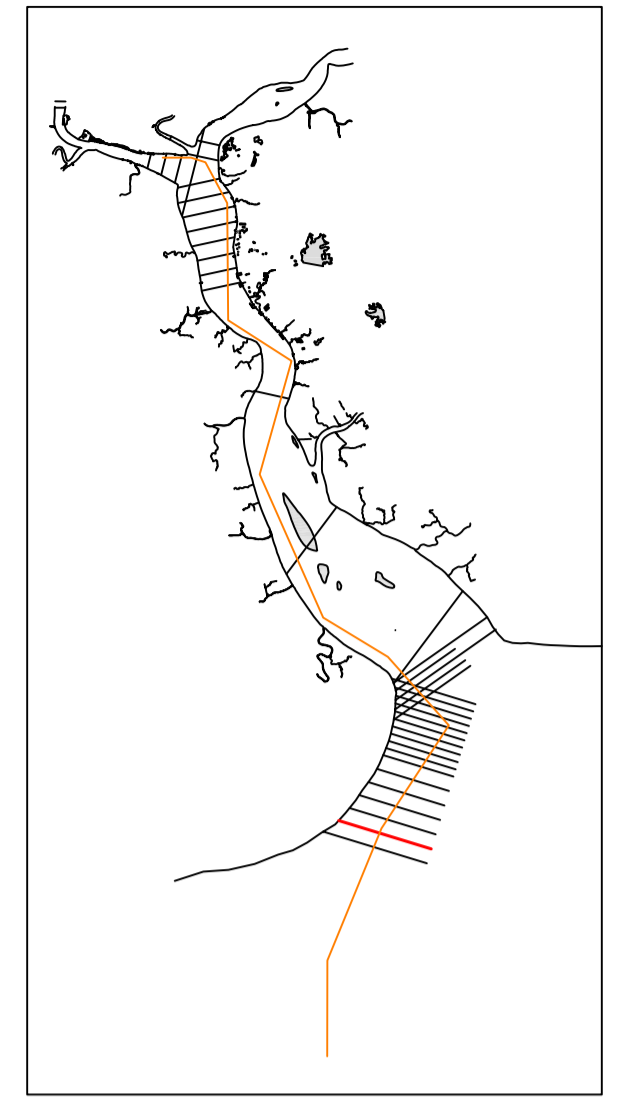
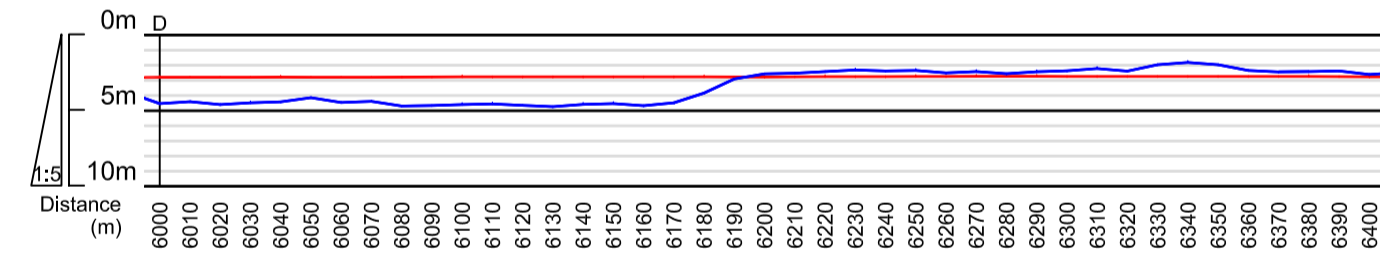
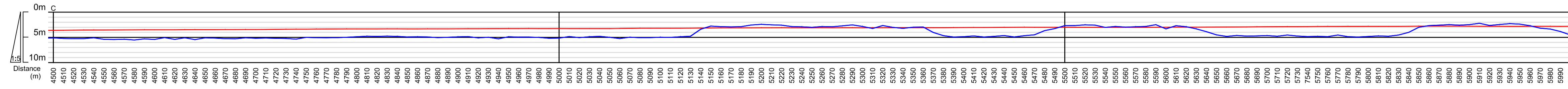
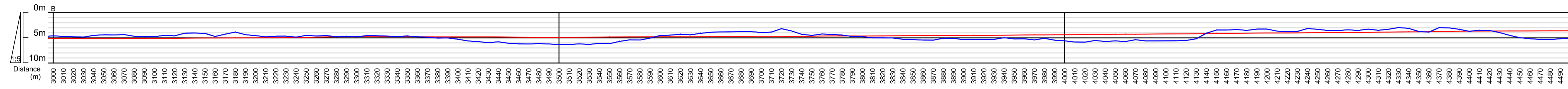
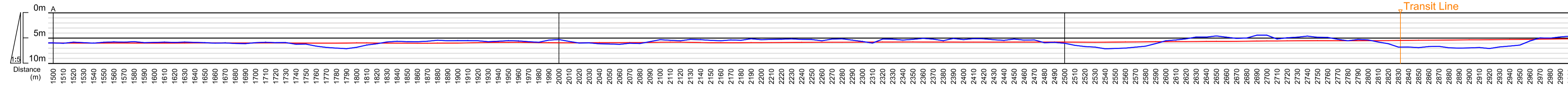
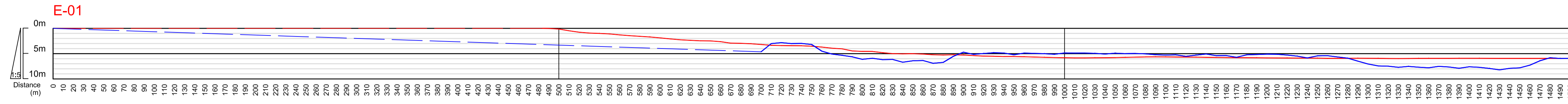
Date of Survey From 06 May 2015 to 07 Jun 2015  
From 09 Nov 2015 to 09 Dec 2015

Date of Drawing 15 Jan 2016

Sheet No.

E-00

Scale H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 811 747.41	211 122.77	0
Transit Line	1 810 918.78	213 830.43	2 832
Left Bank	1 809 872.66	217 248.75	6 406

— Before Rainy Season  
— After Rainy Season



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Chart Datum of Yangon Port

Revision

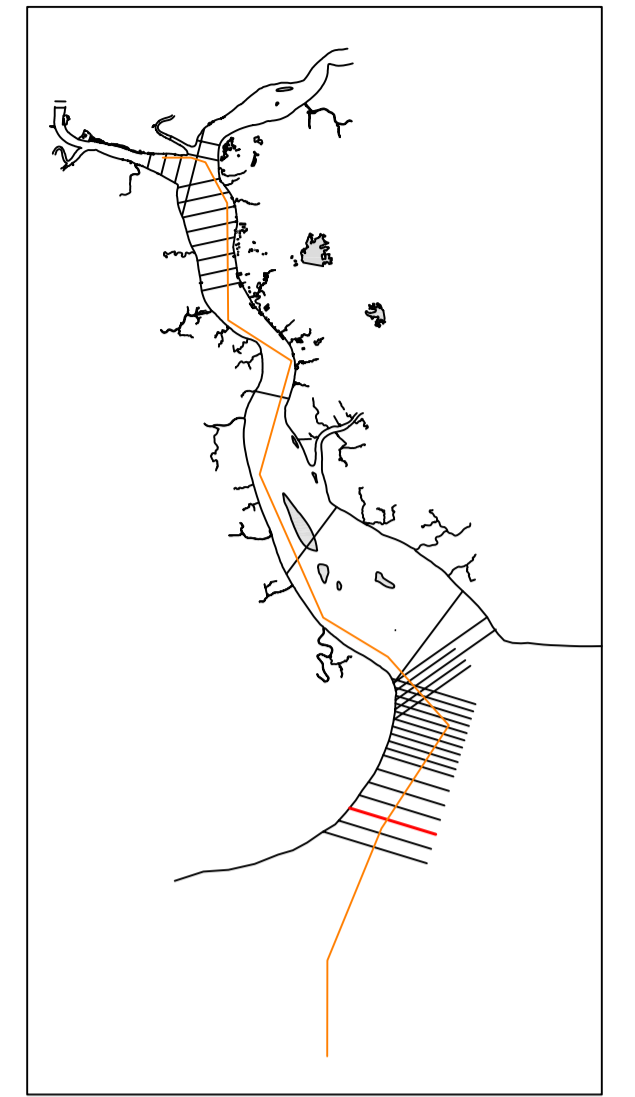
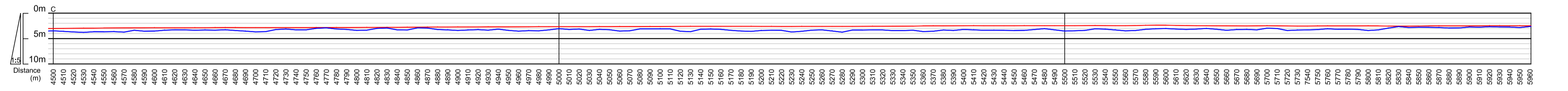
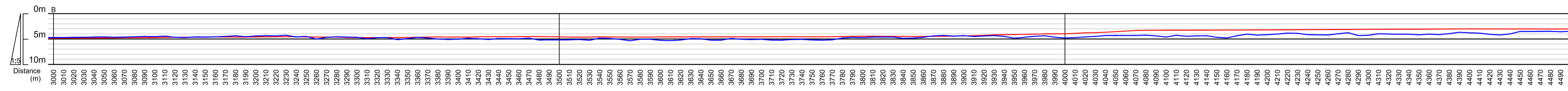
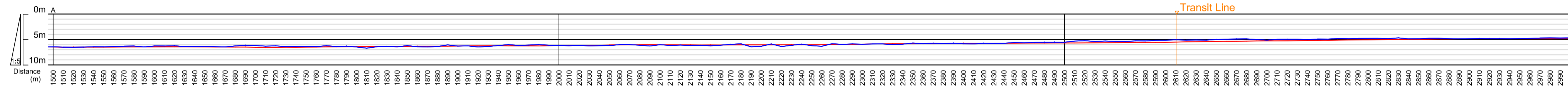
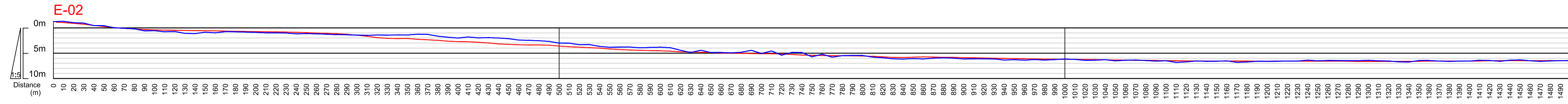
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Date of Survey From 06 May 2015 to 07 Jun 2015  
From 09 Nov 2015 to 09 Dec 2015

Date of Drawing 15 Jan 2016

Sheet No. E-01

Scale H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-02	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 812 573.18	211 841.67	0
Transit Line	1 811 828.23	214 537.99	2 811
Left Bank	1 810 828.88	217 541.39	5 961

— Before Rainy Season  
— After Rainy Season



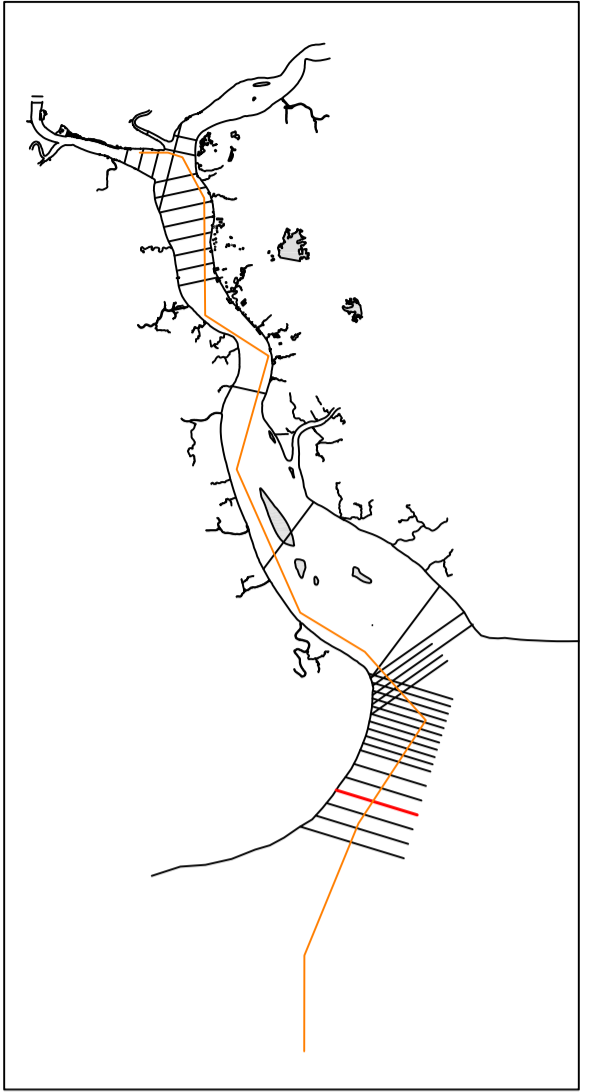
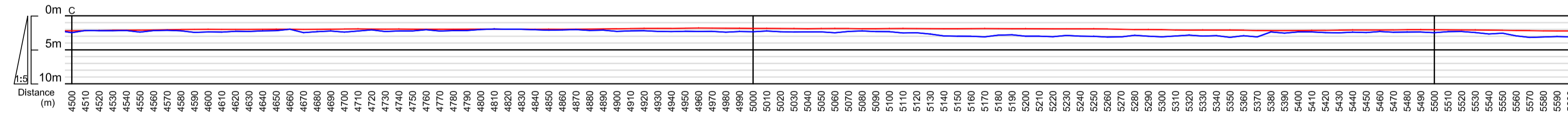
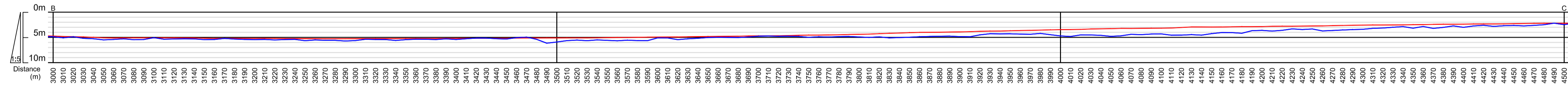
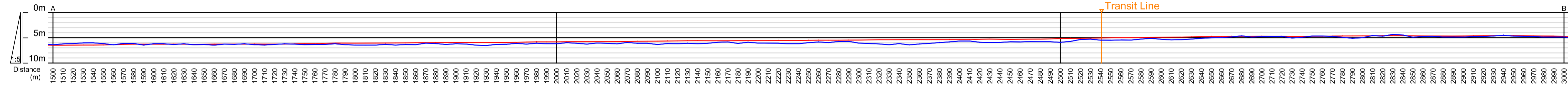
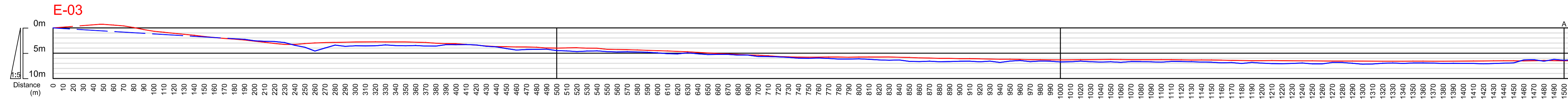
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**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

**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**  
 Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

**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  
 From 09 Nov 2015 to 09 Dec 2015  
**Date of Drawing**  
 15 Jan 2016  
**Sheet No.**  
 E-02  
**Scale**  
 H=2,500 V=1/500 (A1 Printing)  
 H=5,000 V=1/1,000 (A3 Printing)



E-03	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 813 424.49	212 477.14	0
Transit Line	1 812 680.87	214 907.01	2 541
Left Bank	1 811 785.11	217 834.02	5 602

— Before Rainy Season  
— After Rainy Season



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Project Name

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Drawing Title

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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  
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Date of Drawing

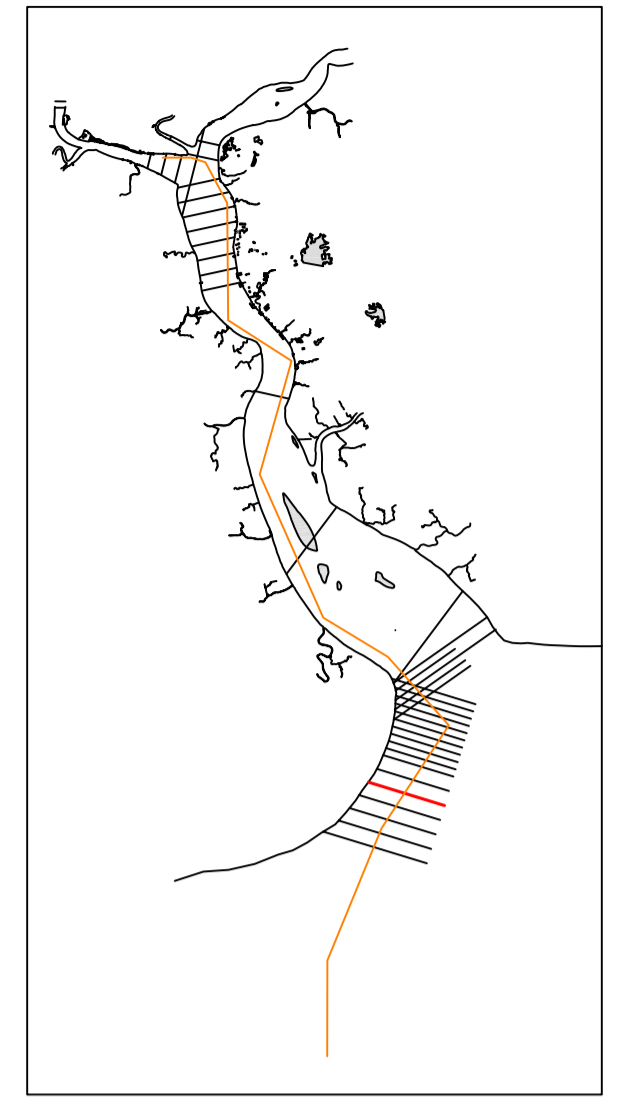
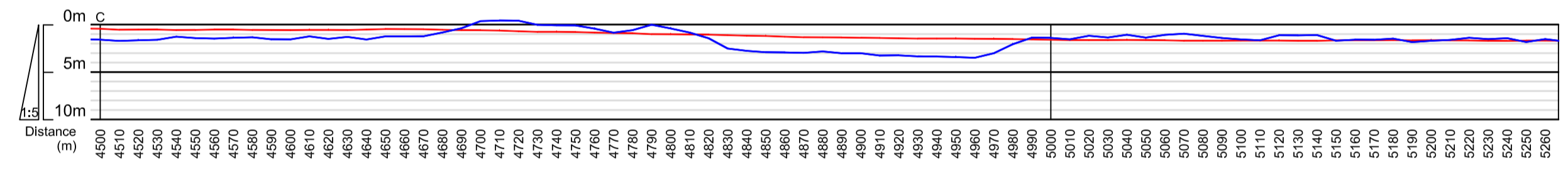
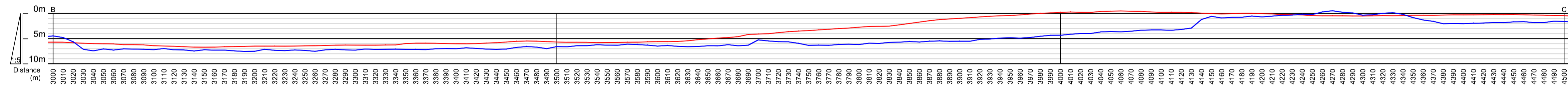
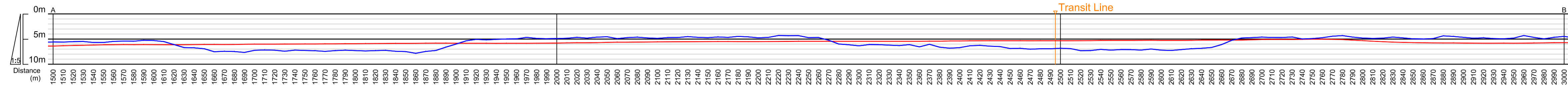
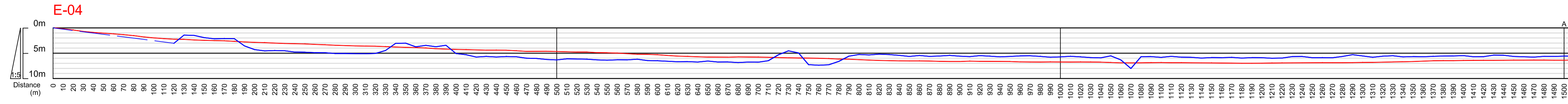
15 Jan 2016

Sheet No.

E-03

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-04	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 814 282.58	213 090.43	0
Transit Line	1 813 552.51	215 476.03	2 495
Left Bank	1 812 741.33	218 126.66	5 267

— Before Rainy Season  
— After Rainy Season



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Date of Drawing

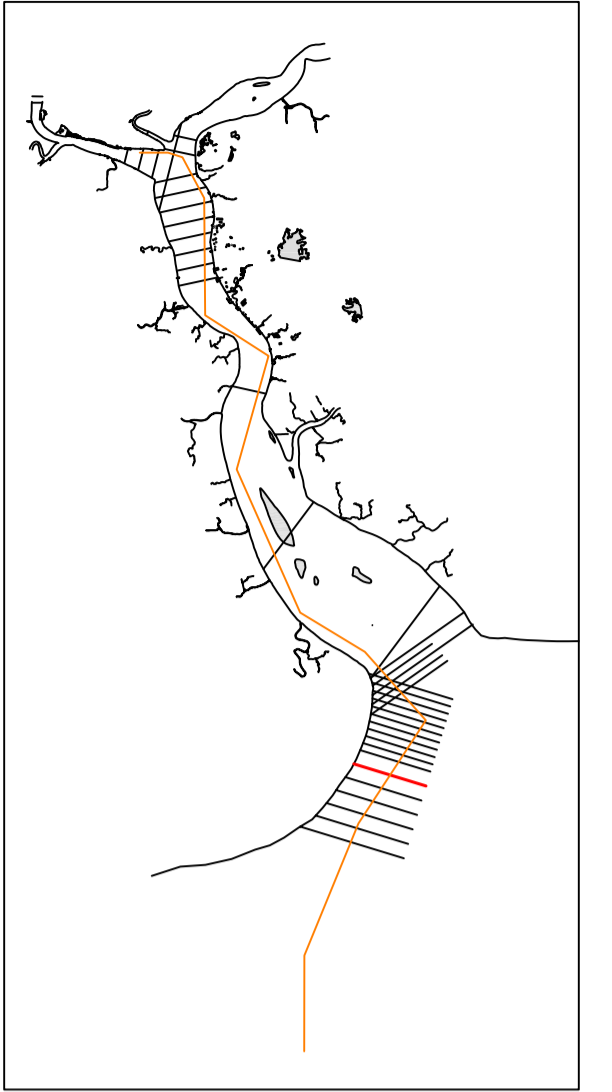
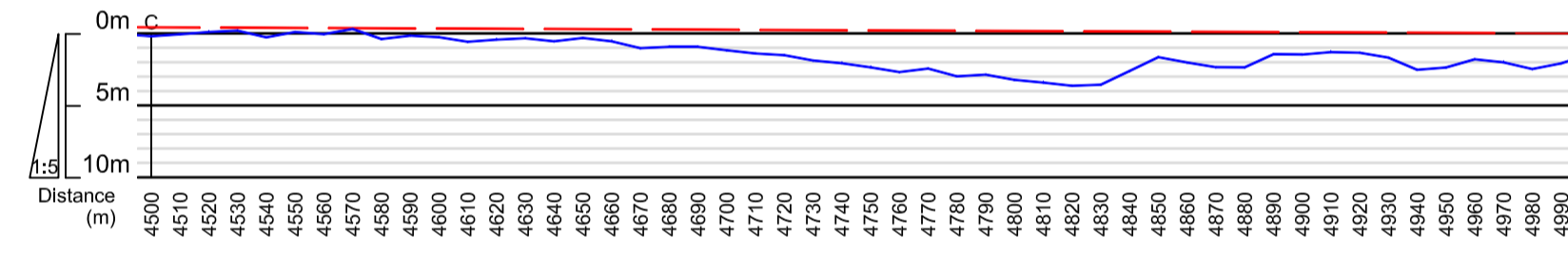
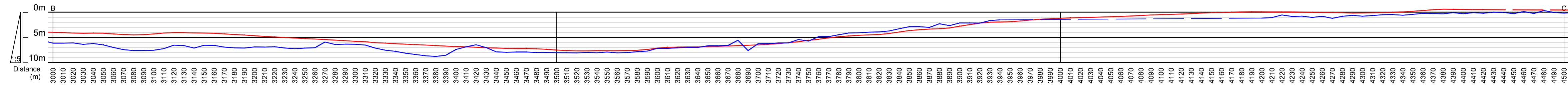
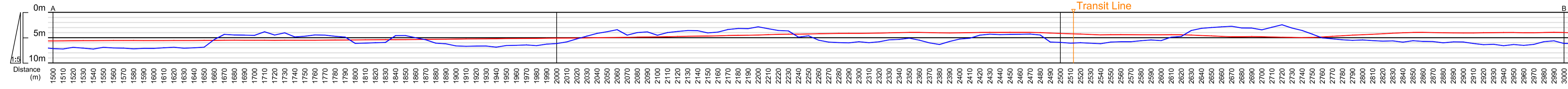
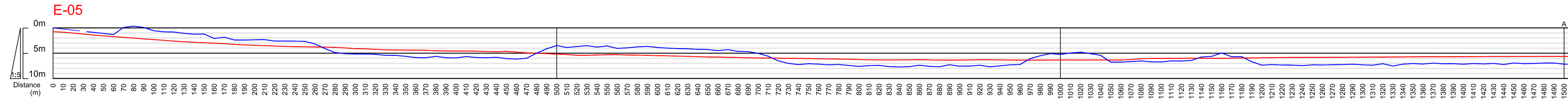
15 Jan 2016

Sheet No.

E-04

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-05	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 815,159.55	213 642.05	0
Transit Line	1 814,424.15	216,045.04	2 513
Left Bank	1 813,697.55	218,419.29	4 956

— Before Rainy Season  
— After Rainy Season



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Date of Drawing

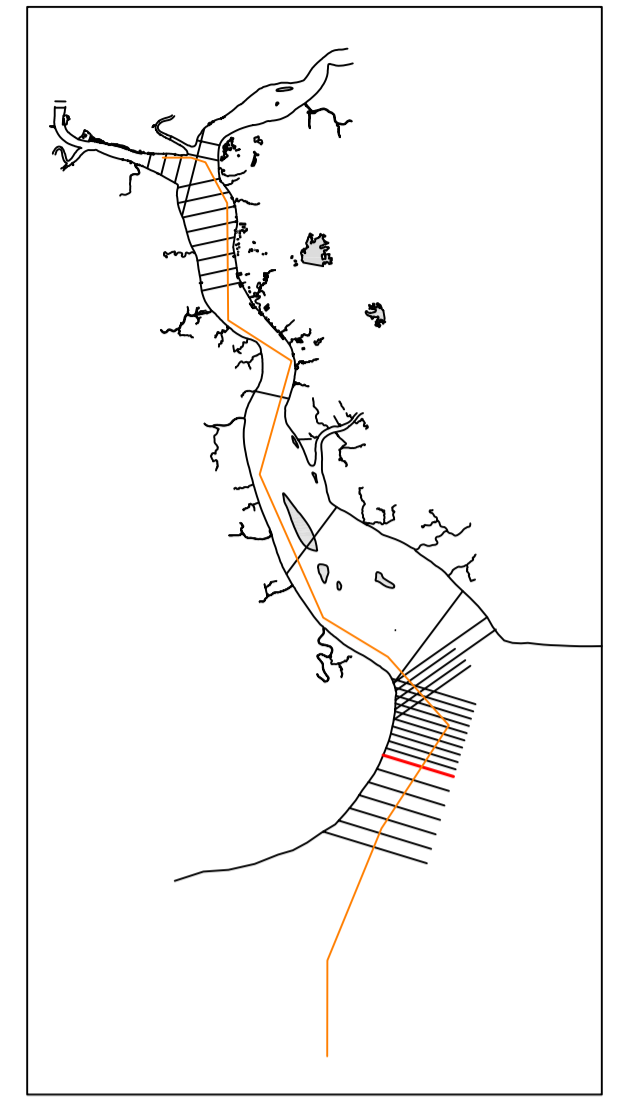
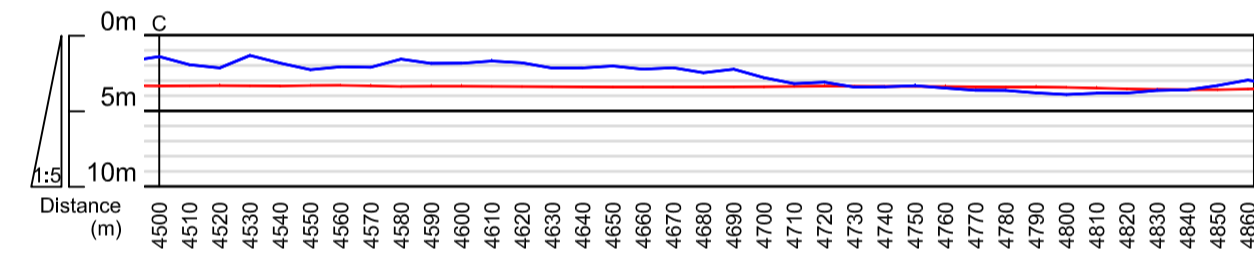
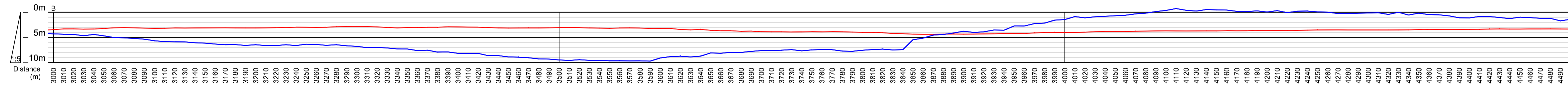
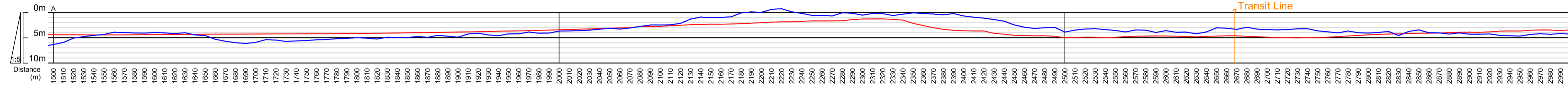
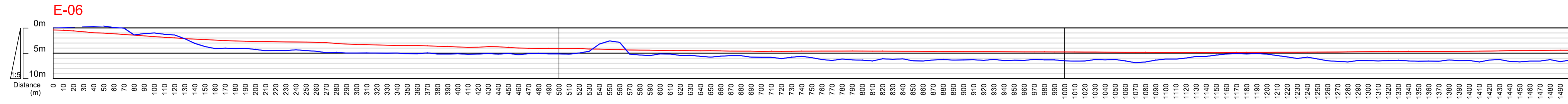
15 Jan 2016

Sheet No.

E-05

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-06	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 816 076.50	214 063.01	0
Transit Line	1 815 295.79	216 614.06	2 668
Left Bank	1 814 653.78	218 711.93	4 862

— Before Rainy Season  
— After Rainy Season



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WGS - 84

Datum Level

Chart Datum of Yangon Port

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Date of Survey

From 06 May 2015 to 07 Jun 2015  
From 09 Nov 2015 to 09 Dec 2015

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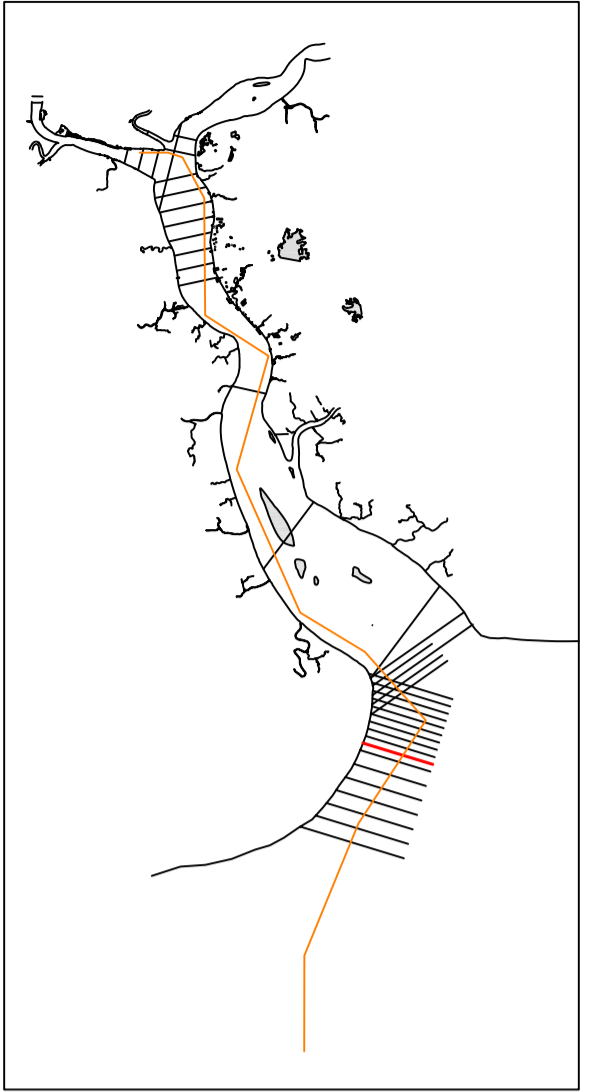
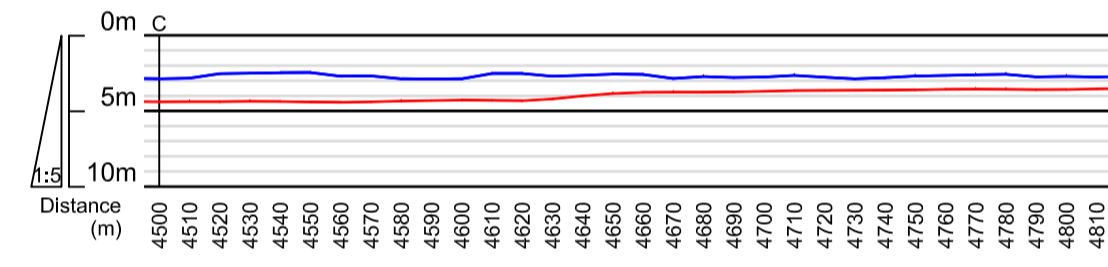
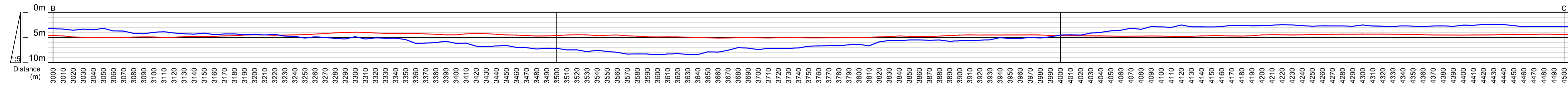
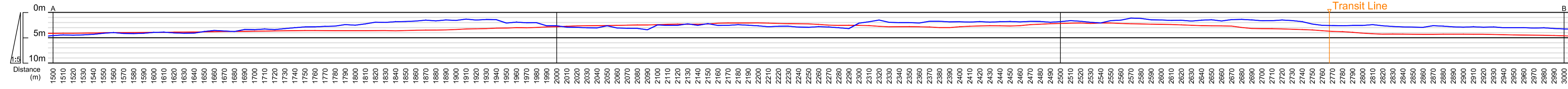
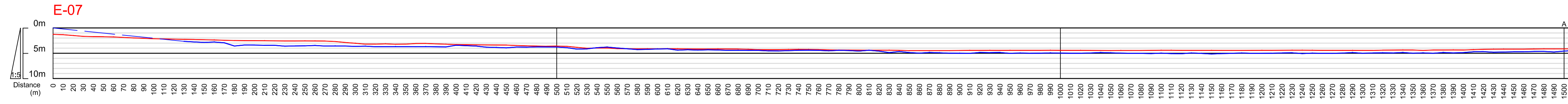
15 Jan 2016

Sheet No.

E-06

Scale

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H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 816 541.32	214 252.76	0
Transit Line	1 815 731.62	216 598.57	2 767
Left Bank	1 815 131.89	218 858.25	4 816

— Before Rainy Season  
— After Rainy Season



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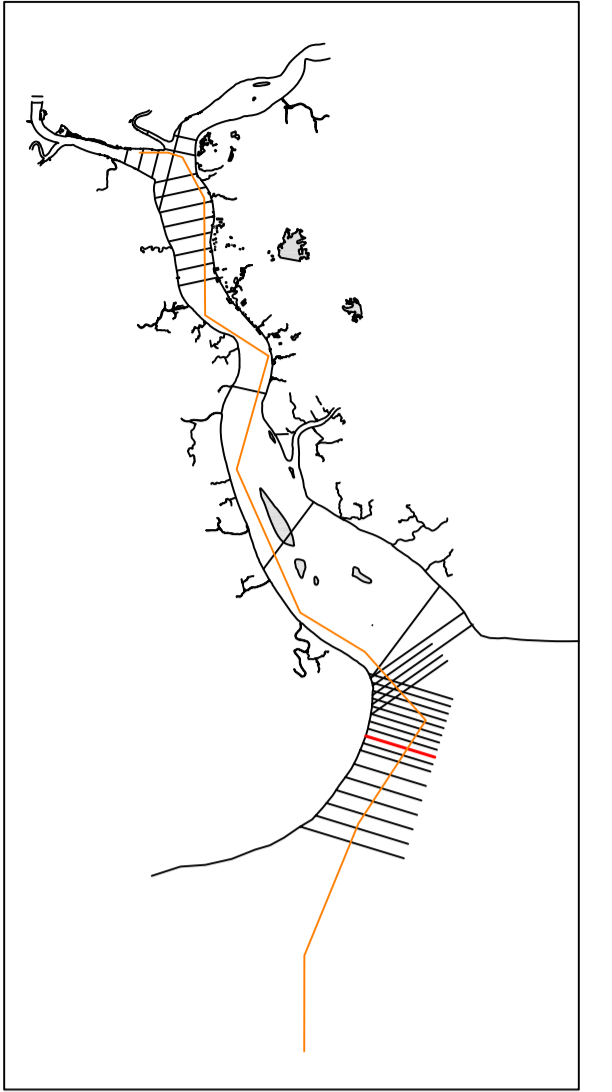
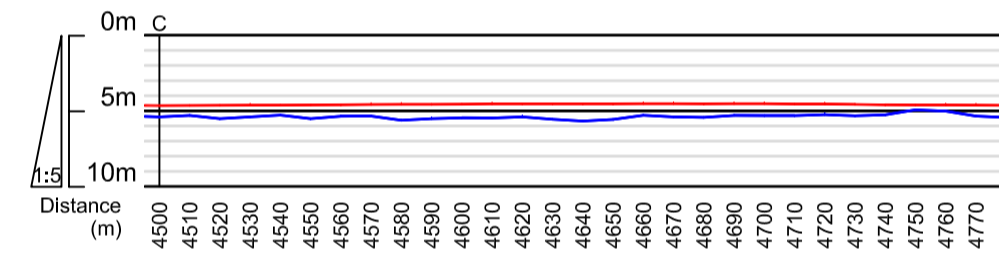
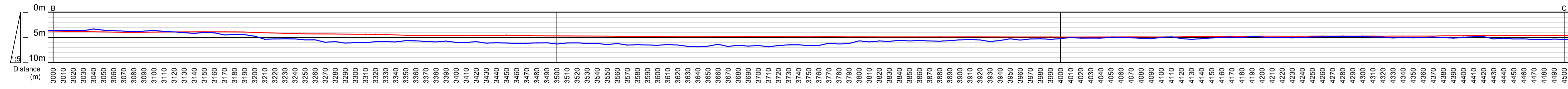
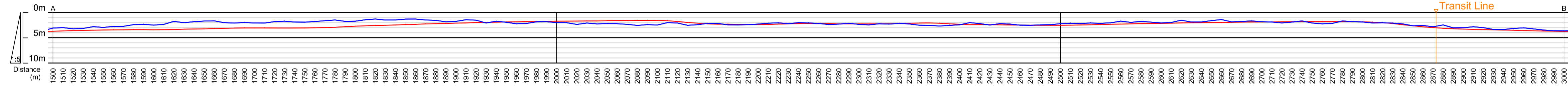
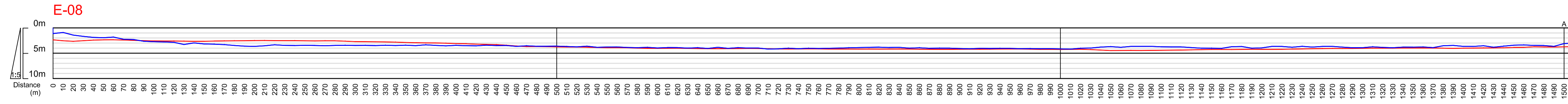
Sheet No.

E-07

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)





E-08	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 008,08	214 436,19	0
Transit Line	1 816 167,44	217 383,08	2 873
Left Bank	1 815 610,00	219 004,57	4 778

— Before Rainy Season  
— After Rainy Season



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WGS - 84

Datum Level

Chart Datum of Yangon Port

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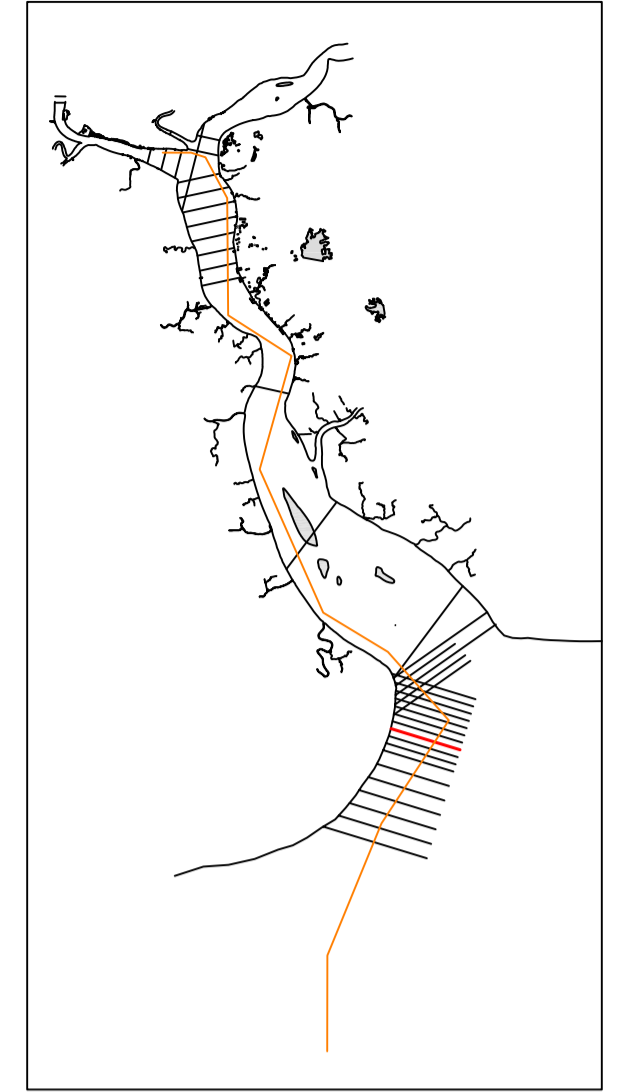
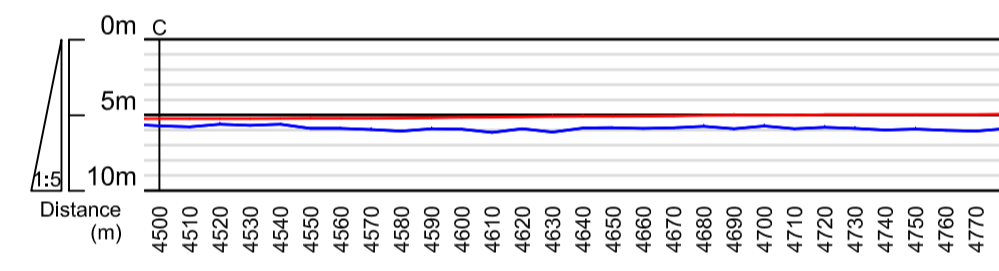
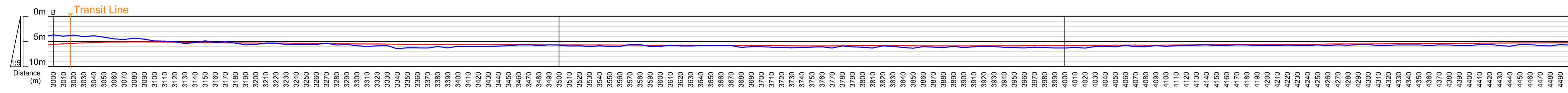
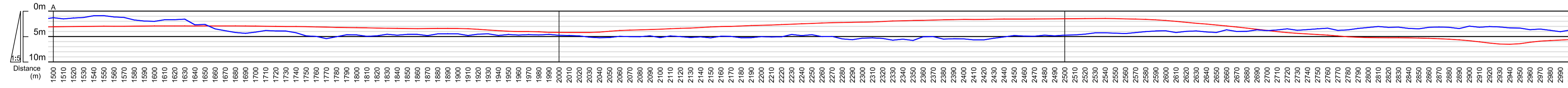
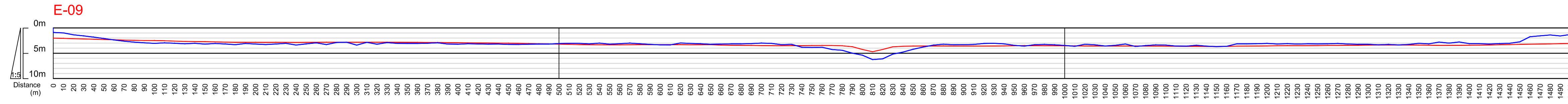
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E-08

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-09	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 486,19	214 582,51	0
Transit Line	1 816 603,28	217 467,50	3 017
Left Bank	1 816 088,11	219 150,88	4 778

— Before Rainy Season  
— After Rainy Season



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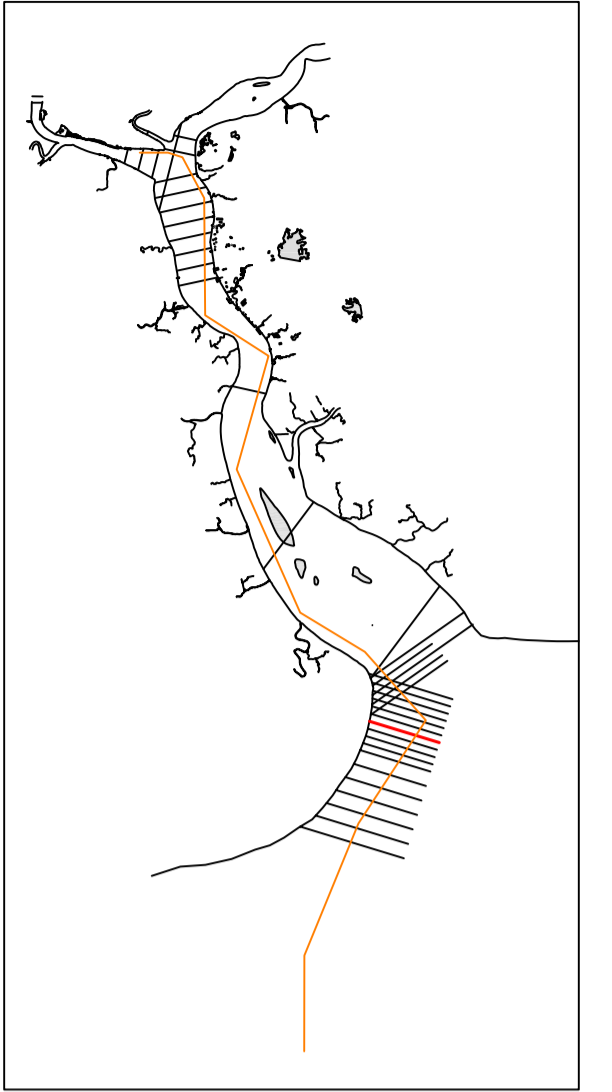
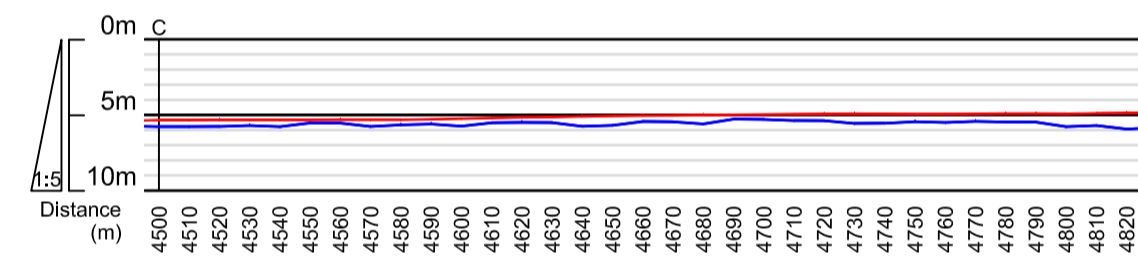
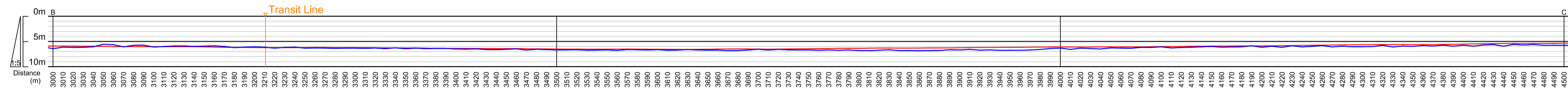
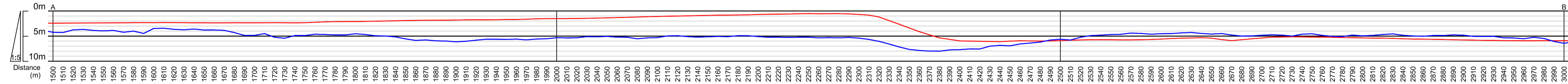
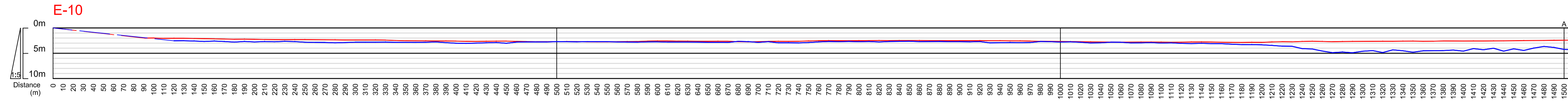


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CONTRACTOR	
	ARC GEO SUPPORT CO., LTD.

Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

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	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-09
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 817 978.73	214 881.67	0
Transit Line	1 817 039.08	217 752.10	3 211
Left Bank	1 816 566.23	219 287.20	4 827

— Before Rainy Season  
— After Rainy Season



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Drawing Title

Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

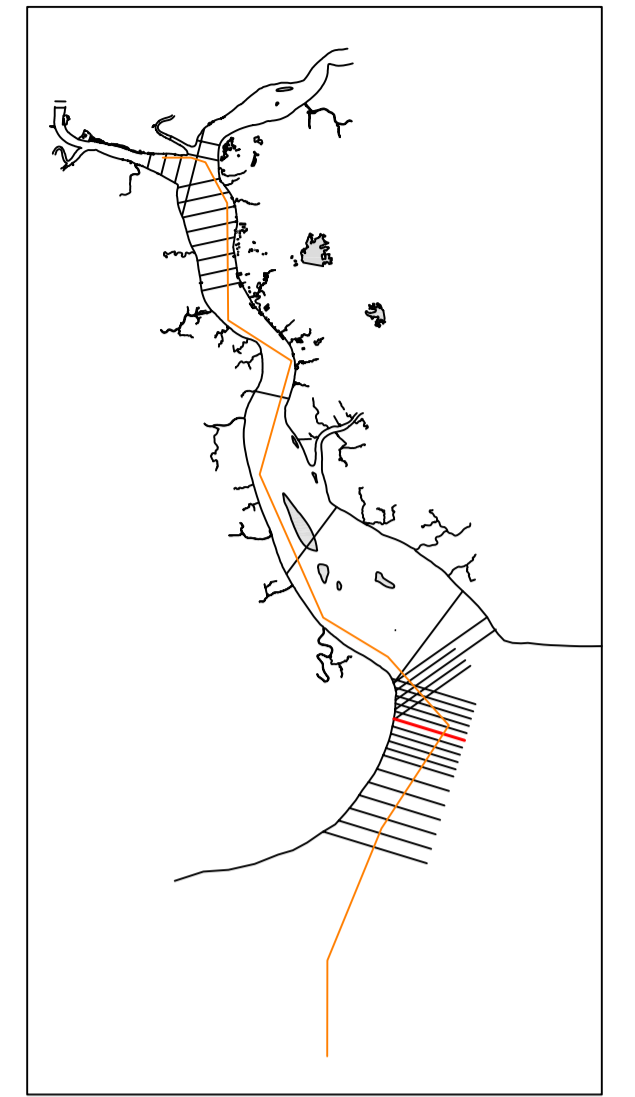
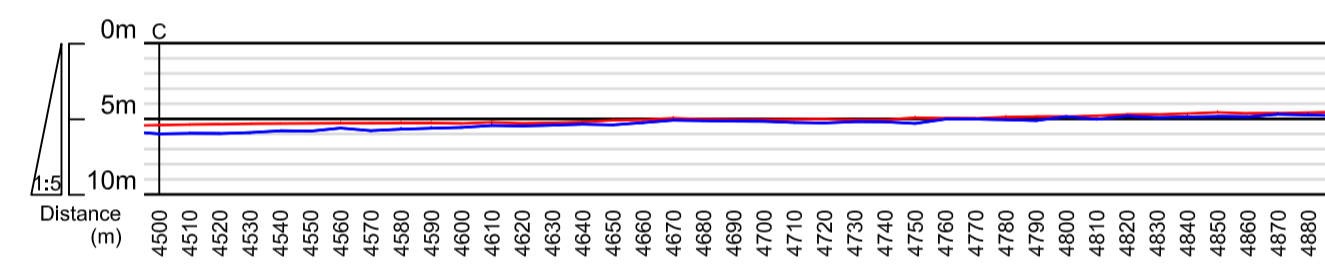
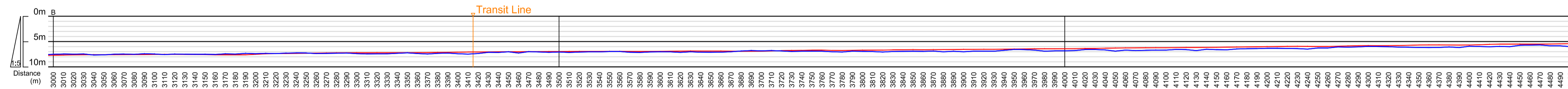
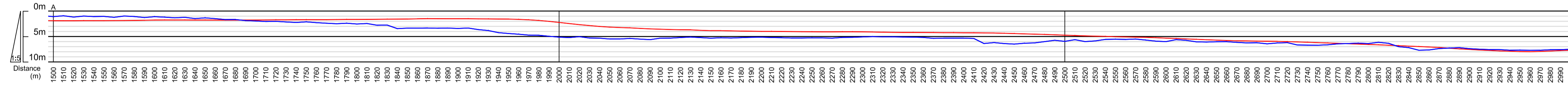
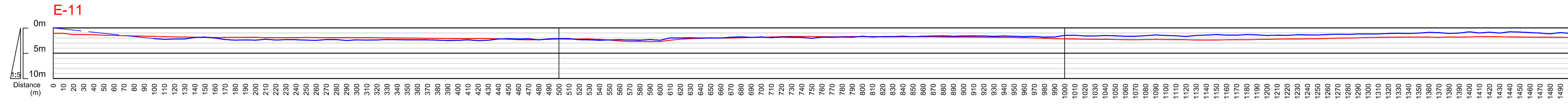
Date of Survey From 06 May 2015 to 07 Jun 2015  
From 09 Nov 2015 to 09 Dec 2015

Date of Drawing 15 Jan 2016

Sheet No.

E-10

Scale H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 818 474.33	214 770.85	0
Transit Line	1 817 474.90	218 036.61	3 415
Left Bank	1 817 044.34	219 443.52	4 887

— Before Rainy Season  
— After Rainy Season



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

Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

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  
From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

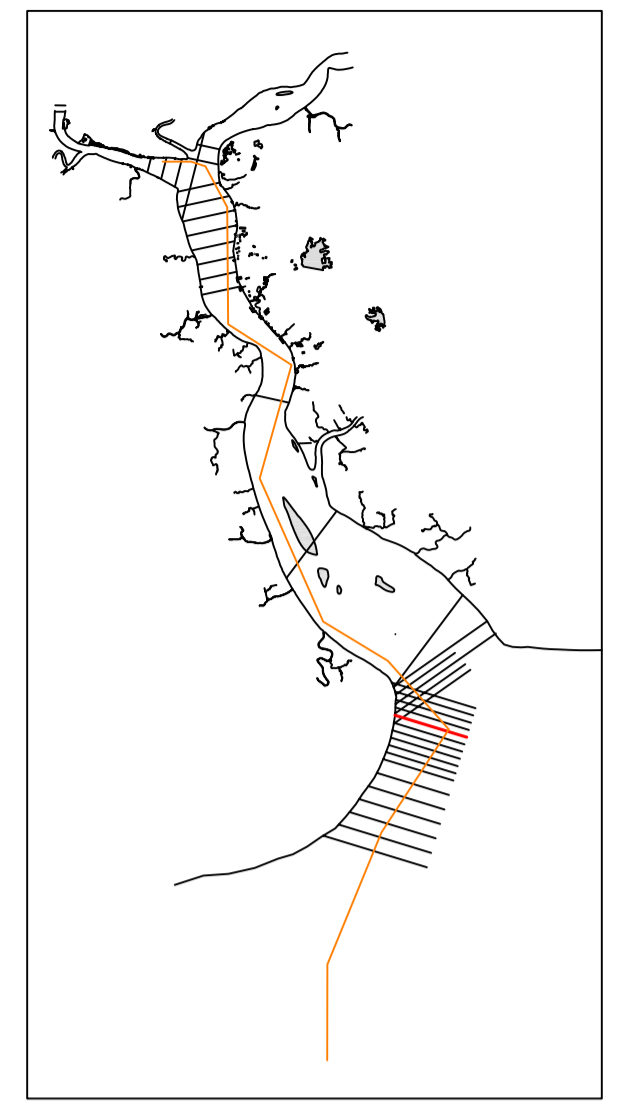
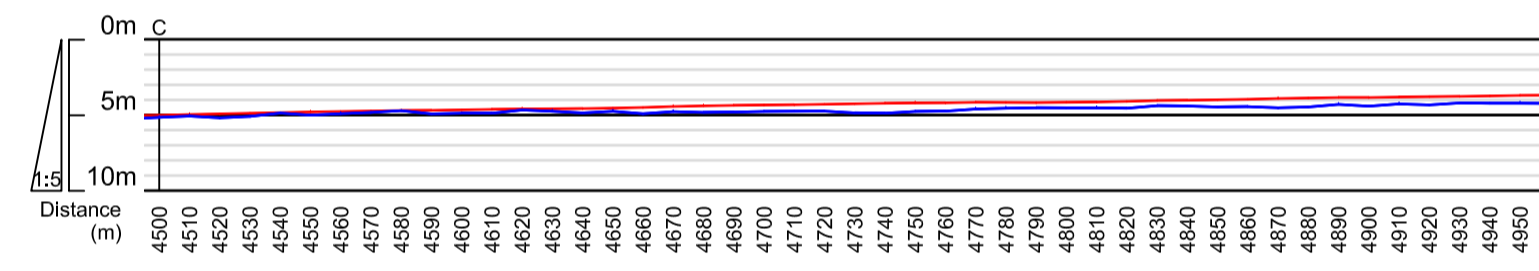
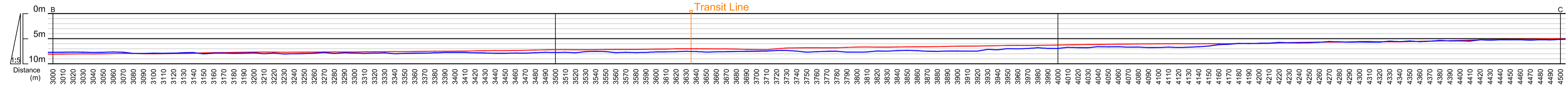
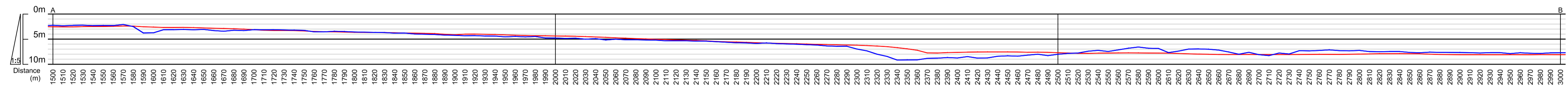
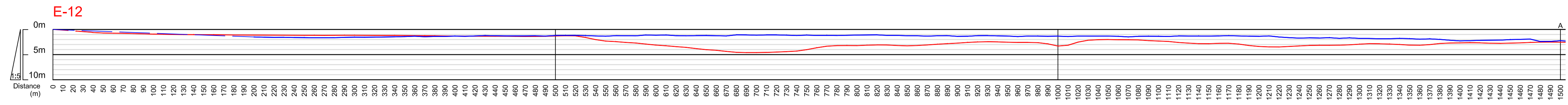
15 Jan 2016

Sheet No.

E-11

Scale

H=2,500 V=1/500 (A1 Printing)  
H=5,000 V=1/1,000 (A3 Printing)



E-12	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 815 974.40	214 845.41	0
Transit Line	1 817 910.72	218 371.11	3 635
Left Bank	1 817 522.45	219 589.84	4 962

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)

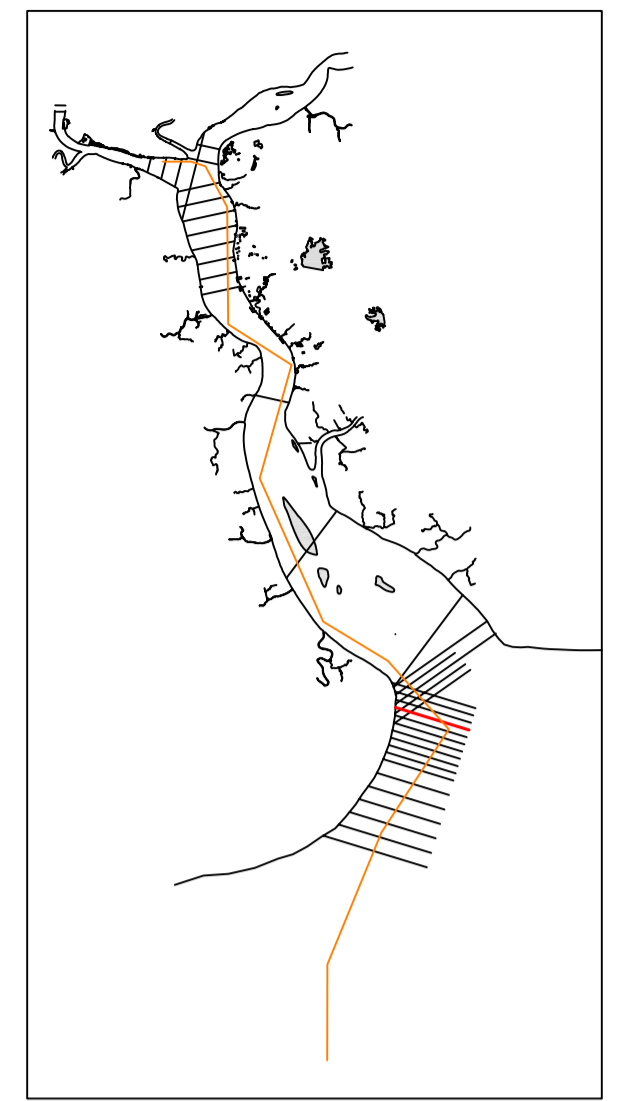
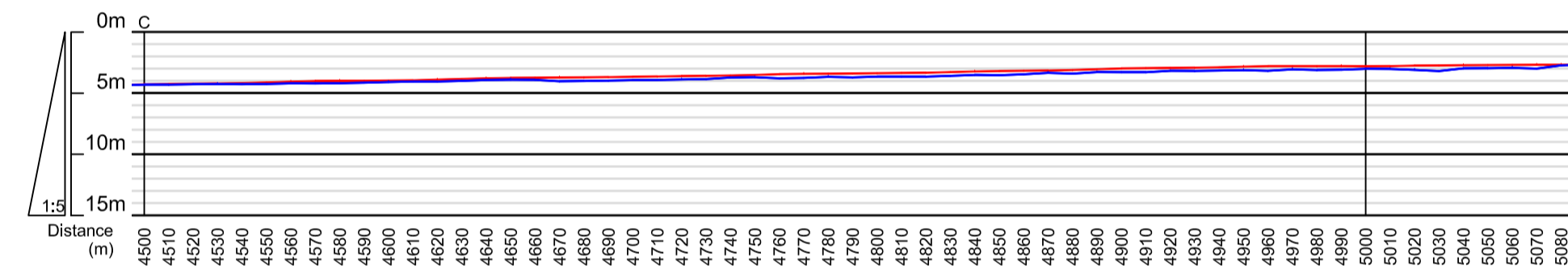
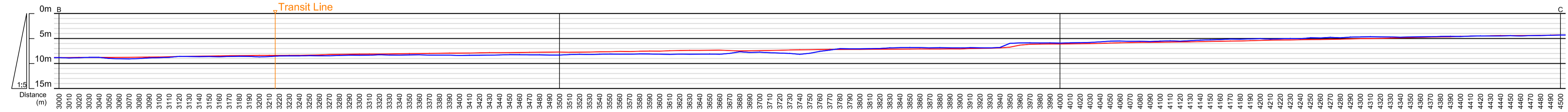
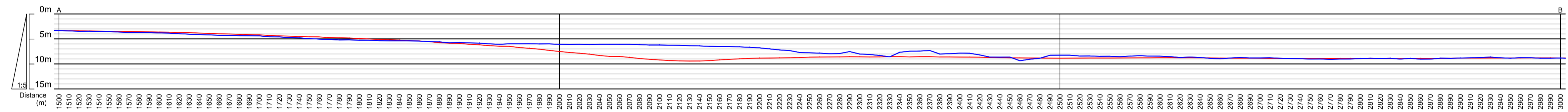
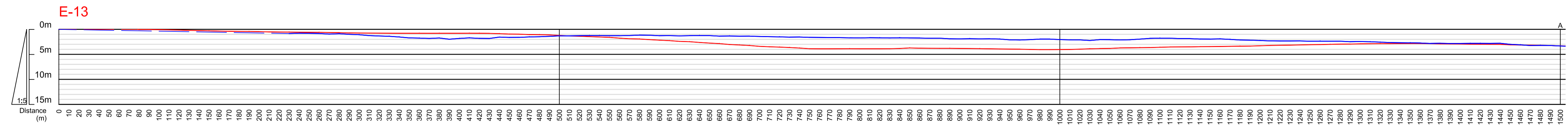


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
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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	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-12
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-13	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819 488.88	214 872.90	0
Transit Line	1 819 547.67	217 948.41	3 216
Left Bank	1 818 000.56	219 736.16	5 080

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)



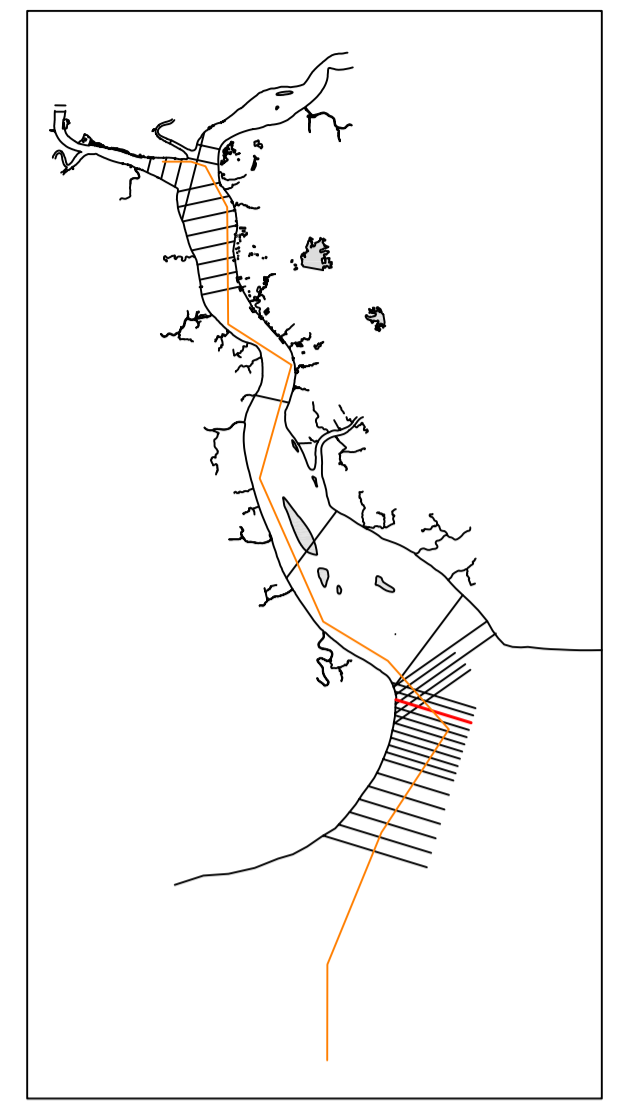
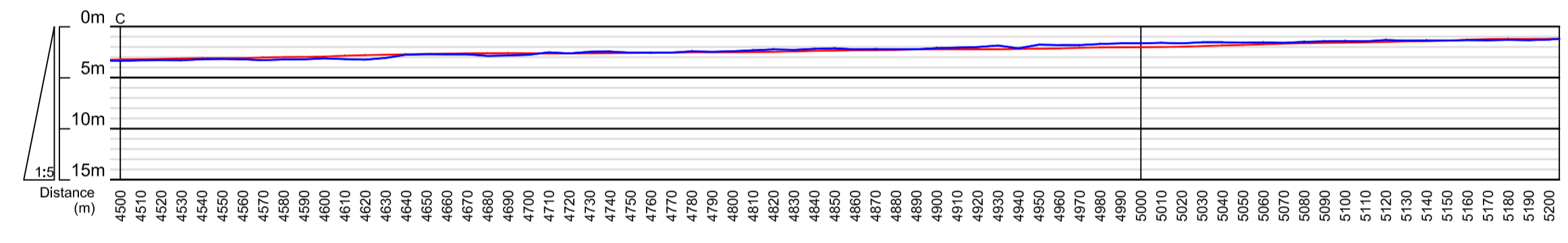
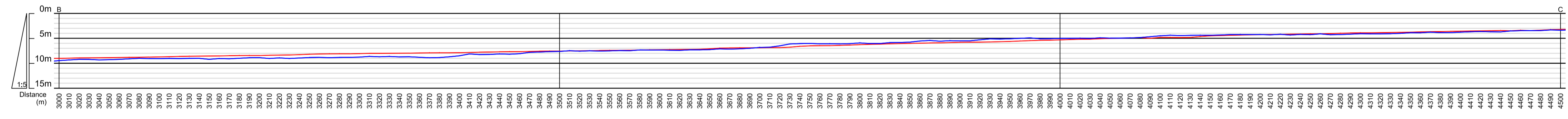
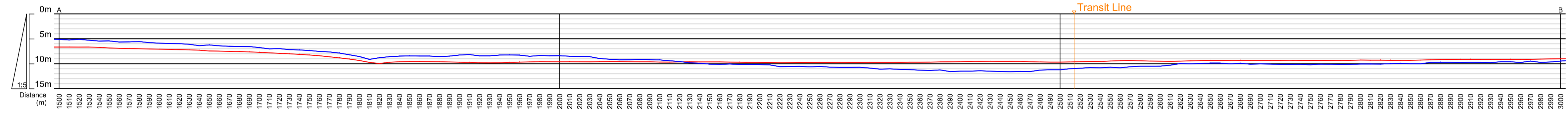
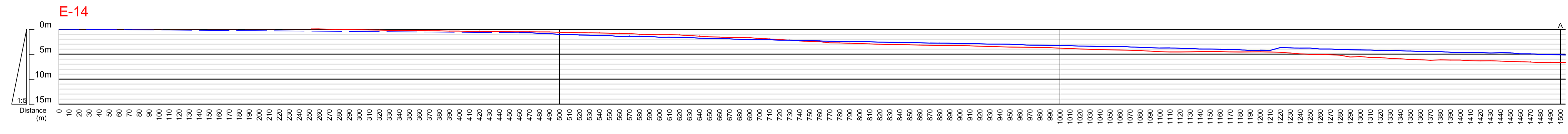
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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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  
 From 09 Nov 2015 to 09 Dec 2015  
 Date of Drawing  
 15 Jan 2016  
 Sheet No.  
 E-13  
 Scale  
 H=2,500 V=1/500 (A1 Printing)  
 H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 001.75	214 905.63	0
Transit Line	1 819 265.99	217 309.83	2 514
Left Bank	1 818 478.67	219 882.47	5 205

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)

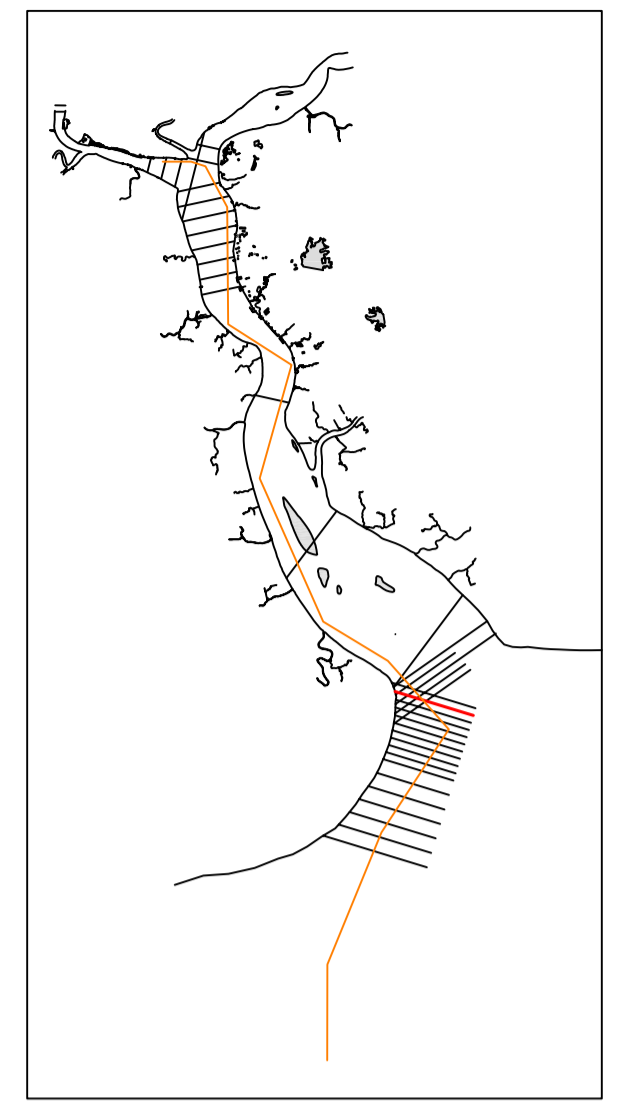
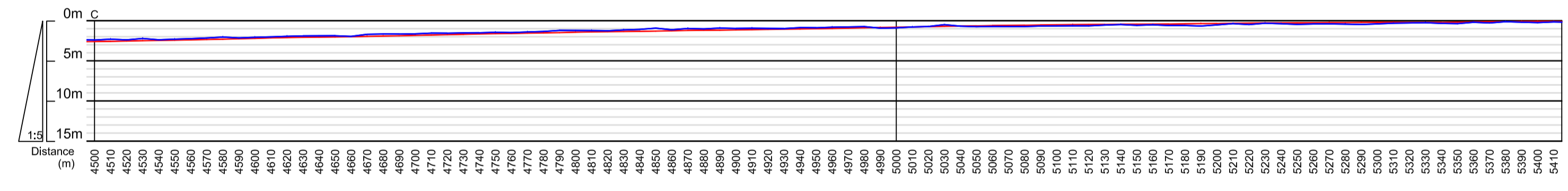
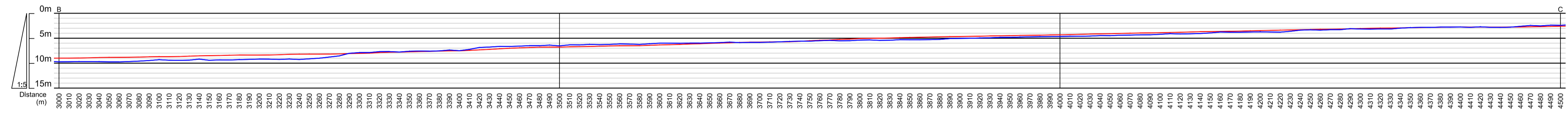
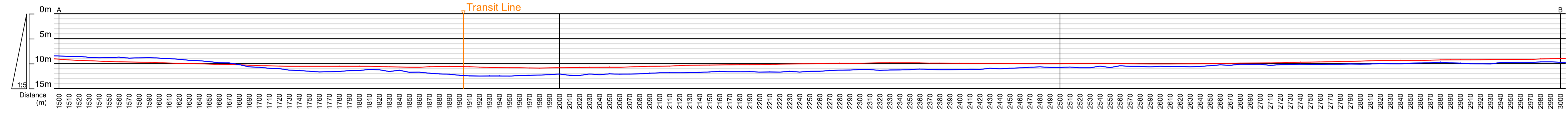
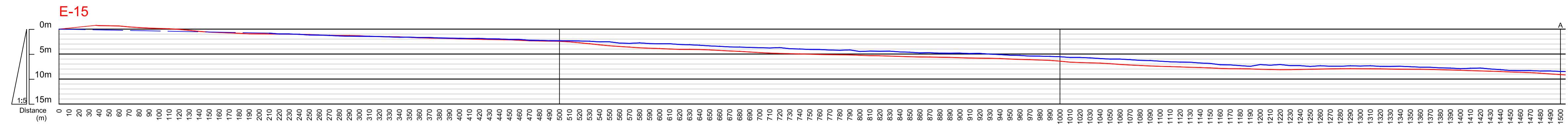


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Projection	UTM Zone 47 N	Date of Survey	From 06 May 2015 to 07 Jun 2015 From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-14
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-15	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 541.54	214 850.41	0
Transit Line	1 818 984.30	216 674.26	1 904
Left Bank	1 818 956.79	220 028.79	5 415

— Before Rainy Season  
— After Rainy Season



**MYANMA PORT AUTHORITY (MPA)**  
**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

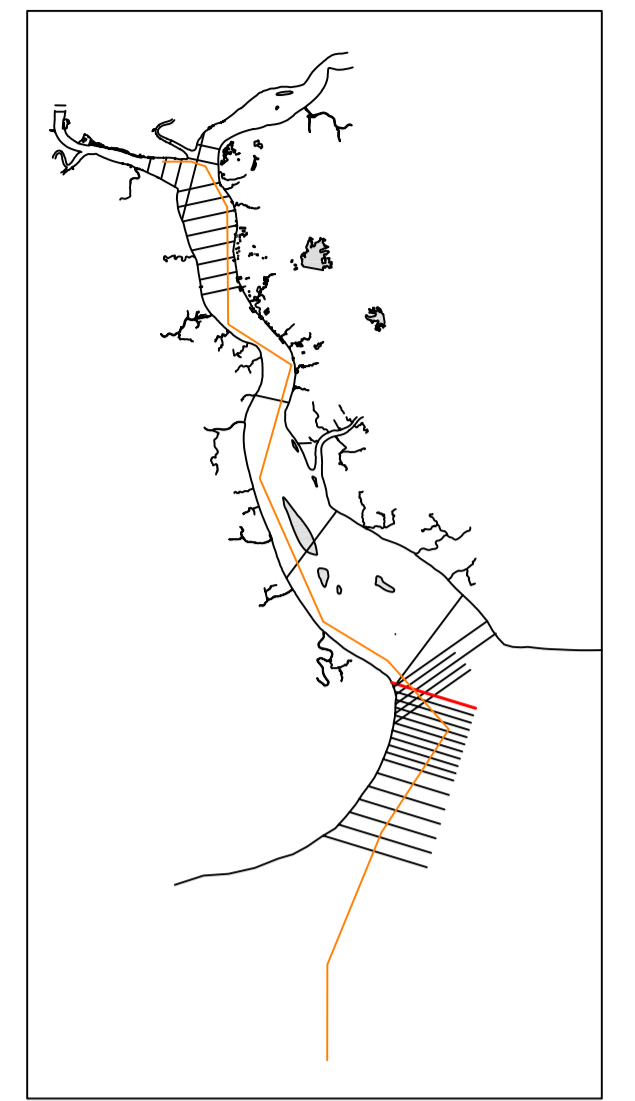
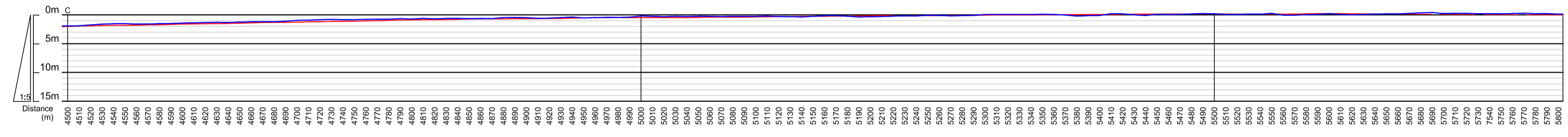
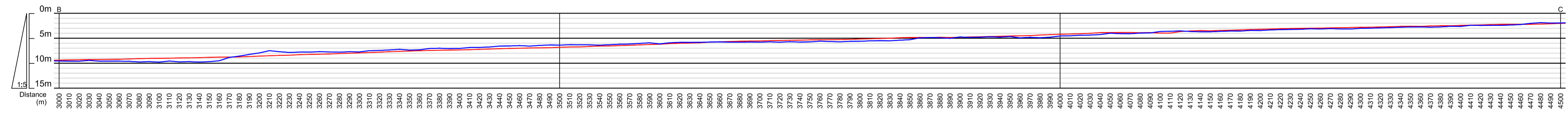
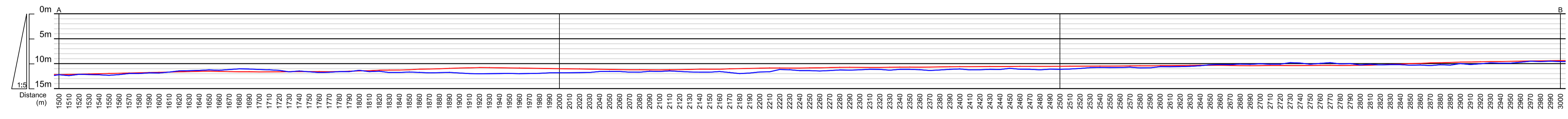
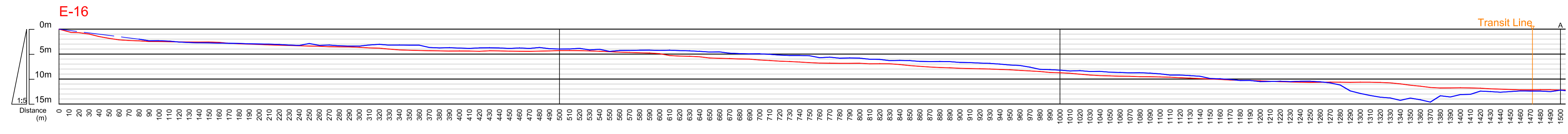
**JICA STUDY TEAM**  
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.  
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**CONTRACTOR**  
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Project Name: **The Data Collection Survey for Improvement of Navigation Channel of Yangon Port**  
 Drawing Title: **Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River**

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: **15 Jan 2016**  
 Sheet No.: **E-15**  
 Scale: **H=2,500 V=1/500 (A1 Printing)**  
**H=5,000 V=1/1,000 (A3 Printing)**





E-16	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,821,133.46	214,624.84	0
Transit Line	1,820,702.61	216,032.69	1,472
Left Bank	1,819,434.90	220,175.11	5,804

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)

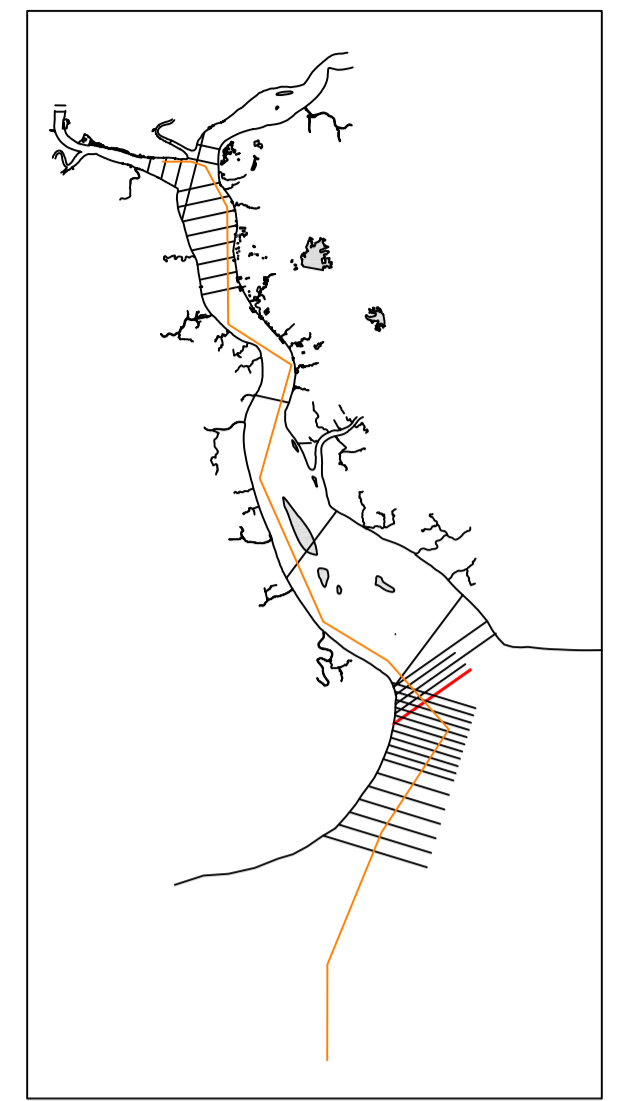
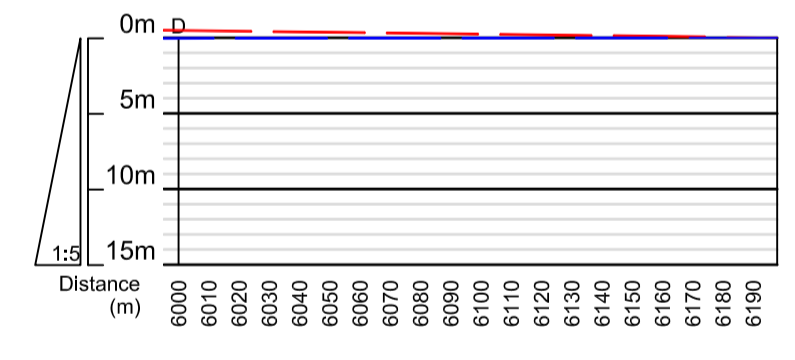
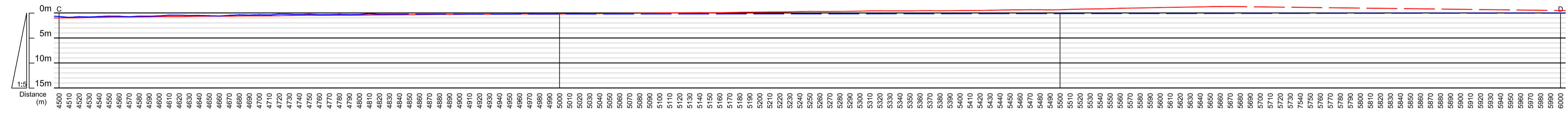
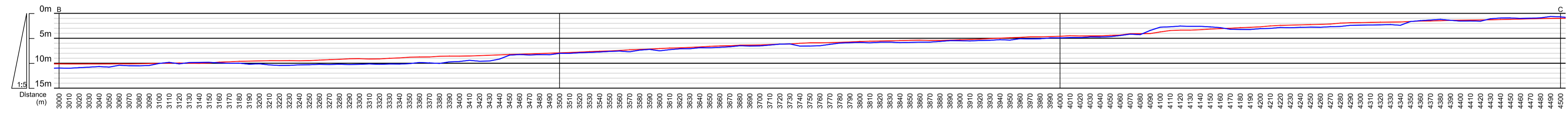
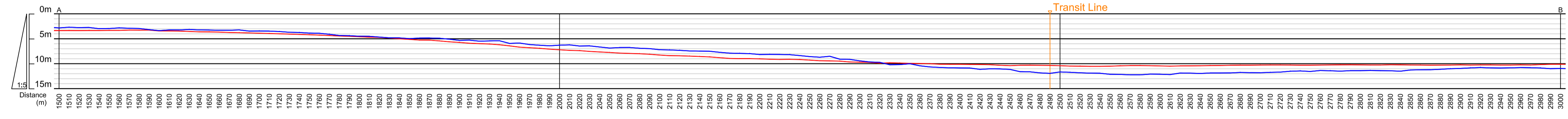
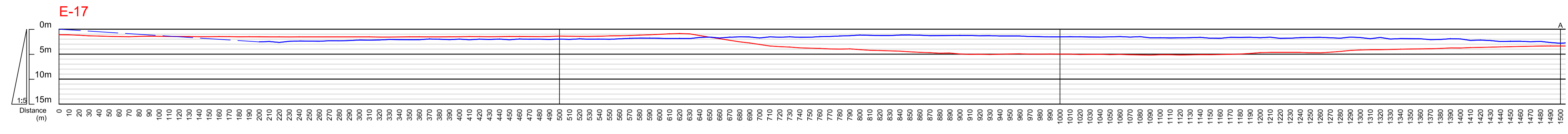


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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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	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-16
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-17	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 818 409.40	214 761.99	0
Transit Line	1 819 840.71	216 798.91	2 490
Left Bank	1 821 972.67	219 832.93	6 198

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)

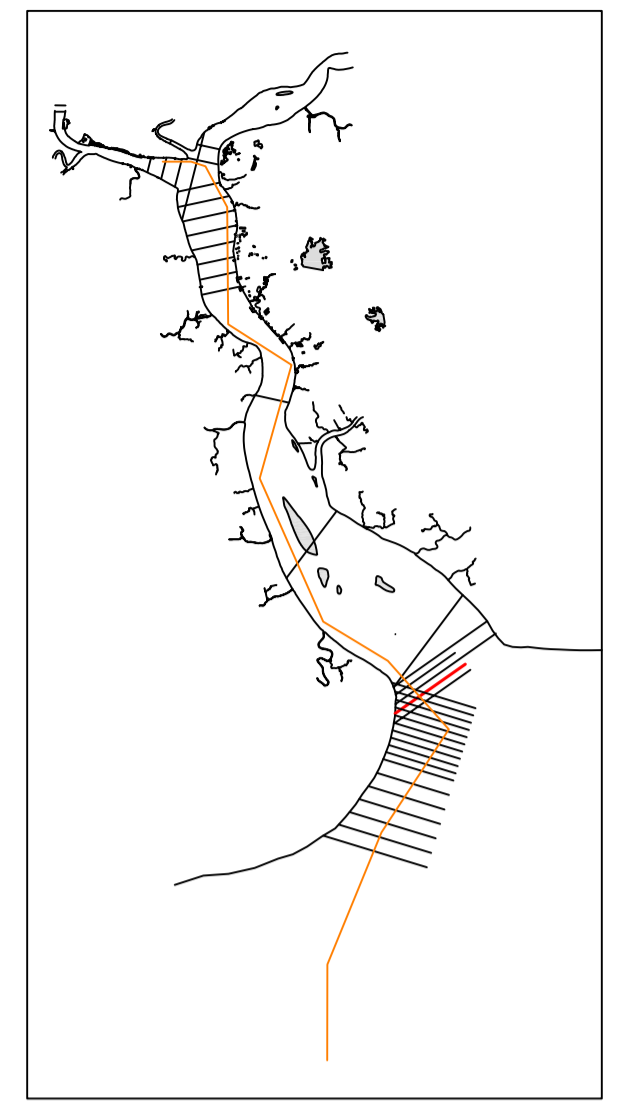
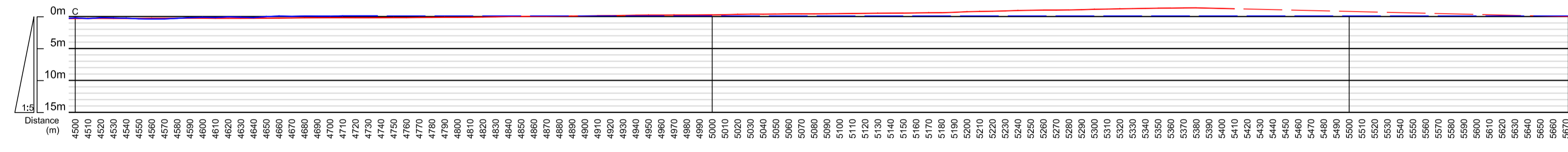
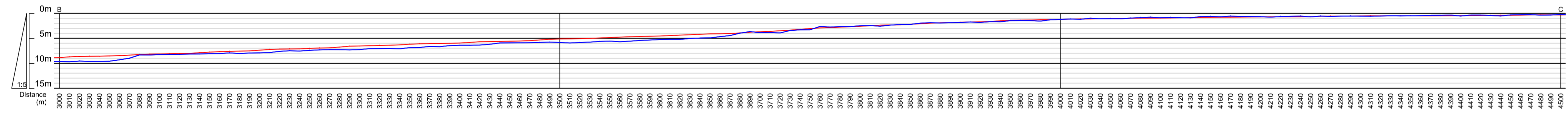
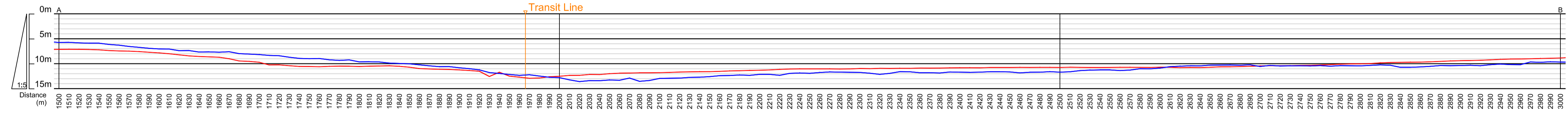
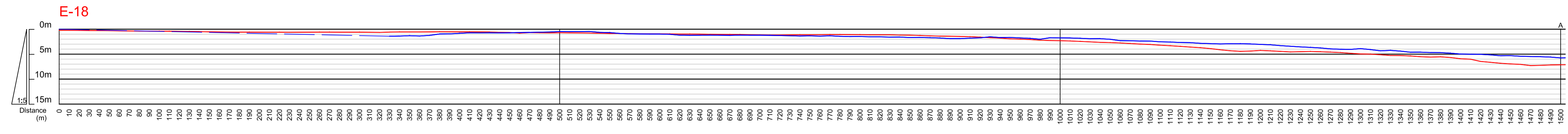


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Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-17
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-18	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819,086.29	214 855.62	0
Transit Line	1 820,216.83	216,484.53	1,966
Left Bank	1 822,347.08	219,496.10	5,672

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)



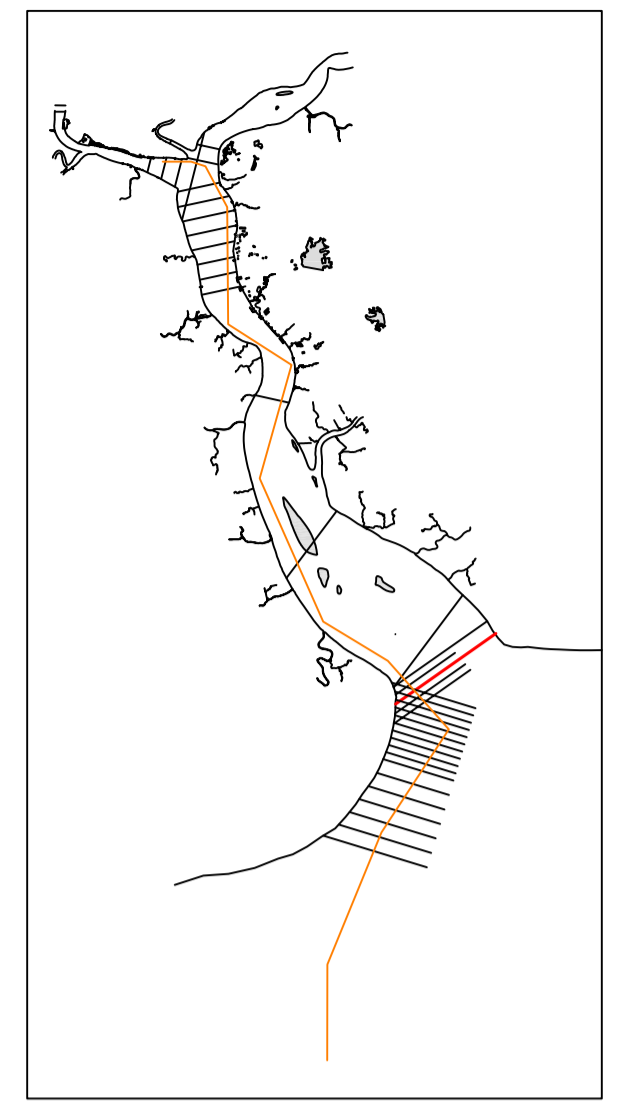
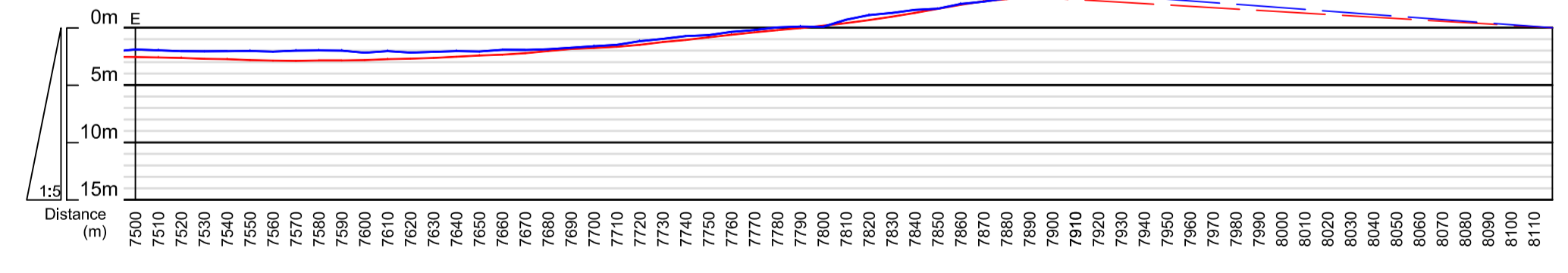
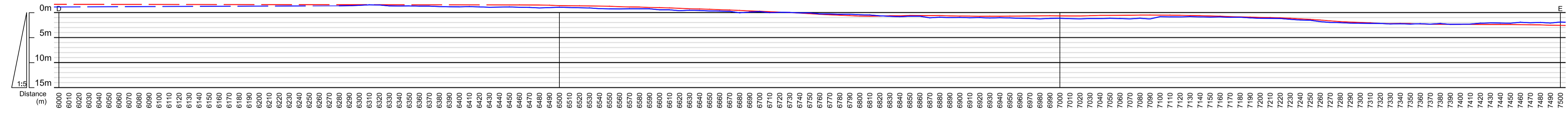
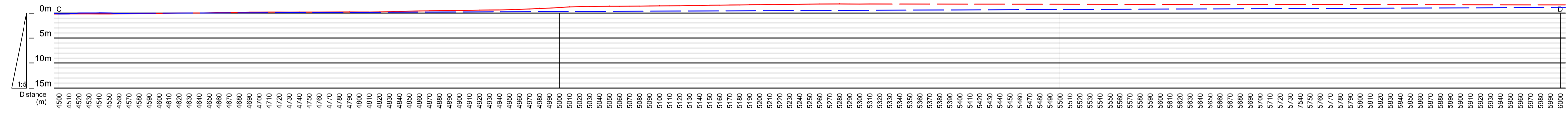
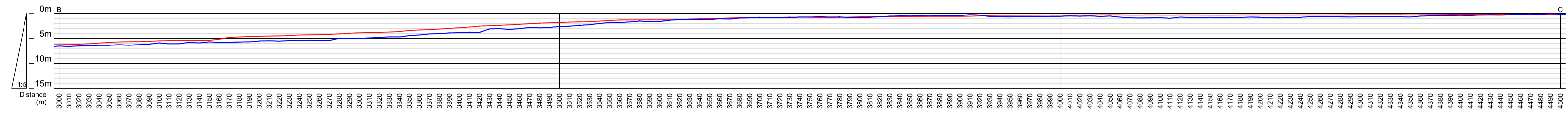
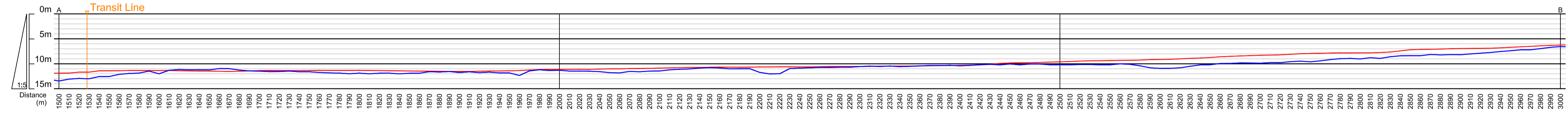
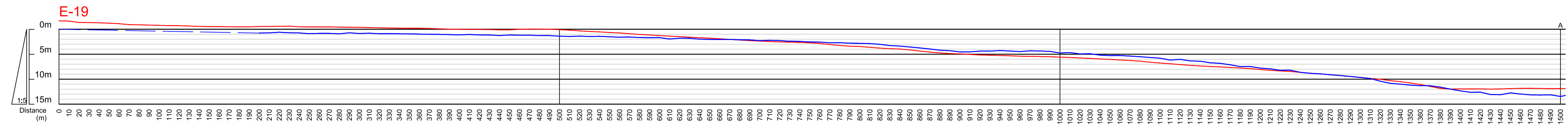
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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Projection  
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 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  
 From 09 Nov 2015 to 09 Dec 2015  
 Date of Drawing  
 15 Jan 2016  
 Sheet No.  
 E-18  
 Scale  
 H=2,500 V=1/500 (A1 Printing)  
 H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 819 714.64	214 880.18	0
Transit Line	1 820 597.98	216 130.15	1 526
Left Bank	1 824 381.70	221 521.94	8 118

— Before Rainy Season  
— After Rainy Season



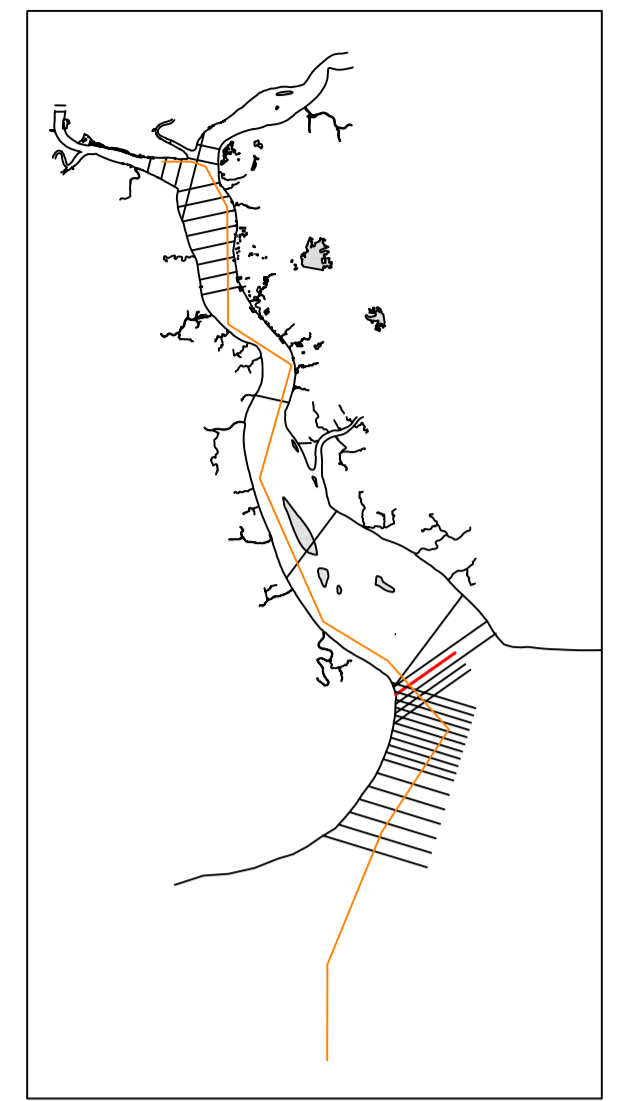
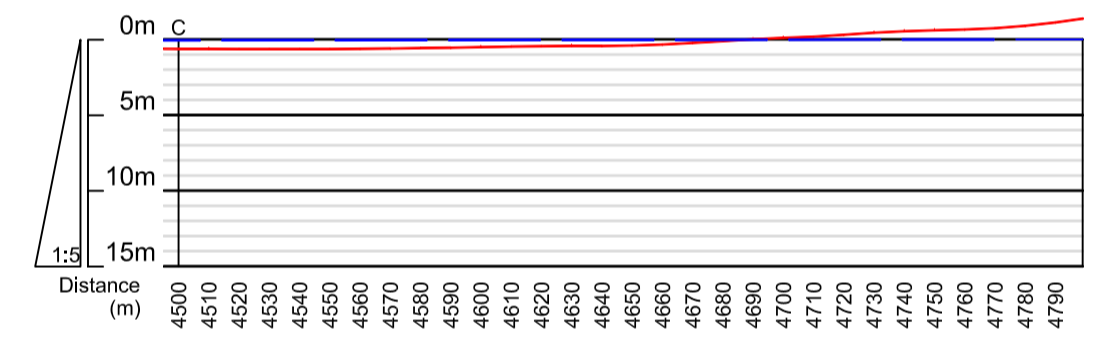
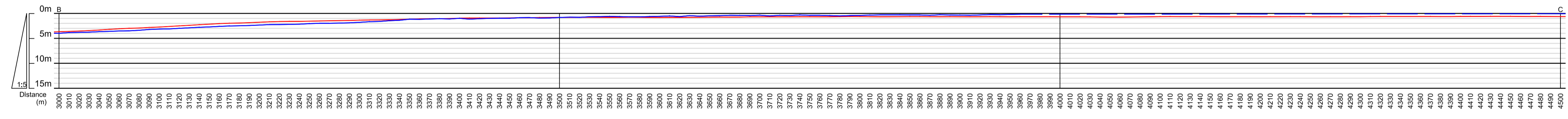
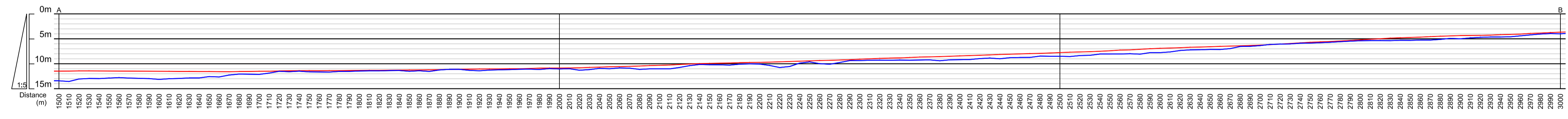
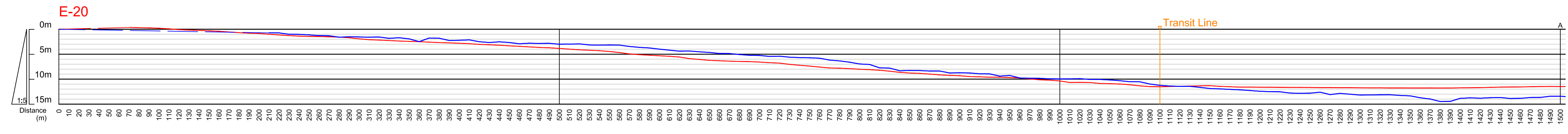
**MYANMA PORT AUTHORITY (MPA)**  
**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

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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: **15 Jan 2016**  
 Sheet No.: **E-19**  
 Scale: **H=2,500 V=1/500 (A1 Printing)**  
**H=5,000 V=1/1,000 (A3 Printing)**



E-20	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 336.84	214 895.98	0
Transit Line	1 823 055.12	215 795.77	1 100
Left Bank	1 823 055.90	218 822.43	4 799

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)

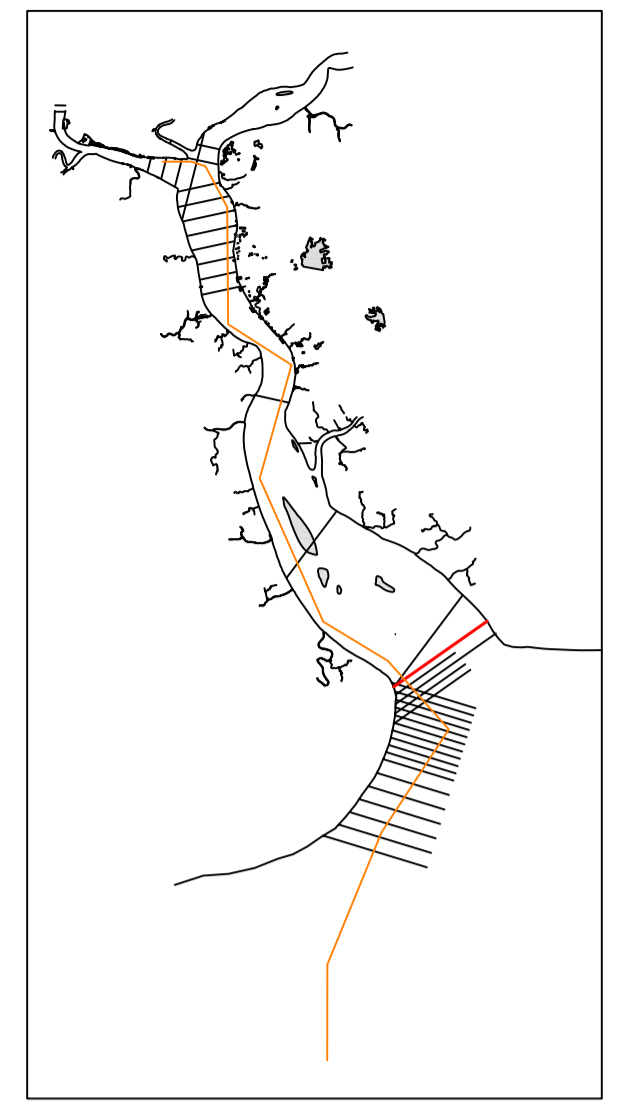
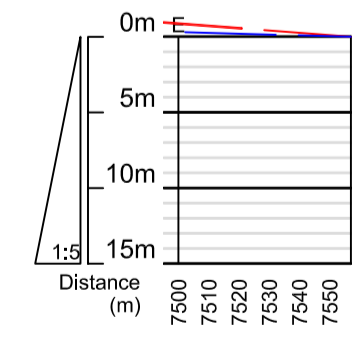
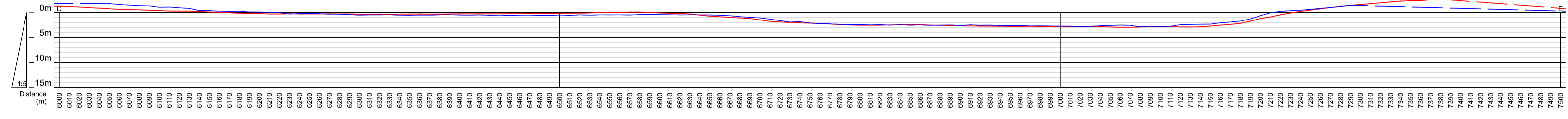
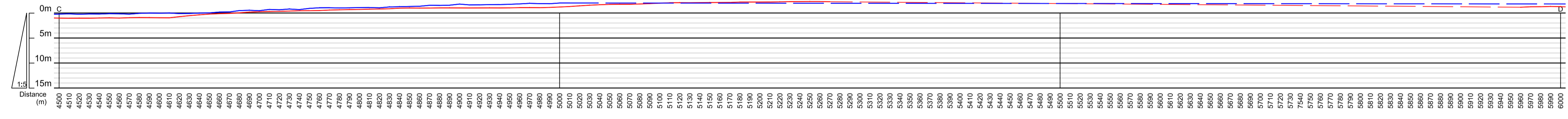
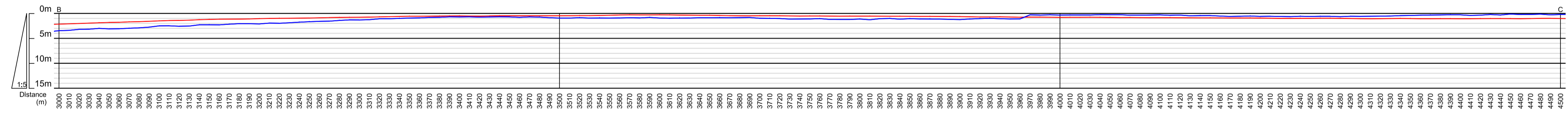
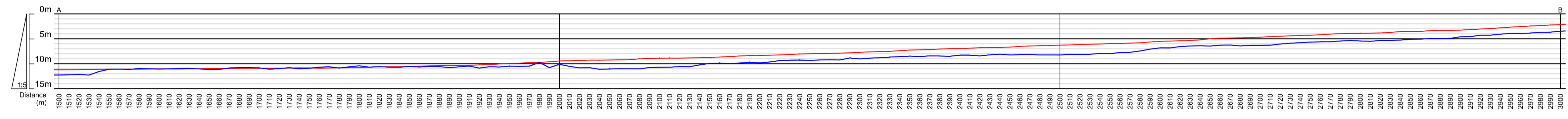
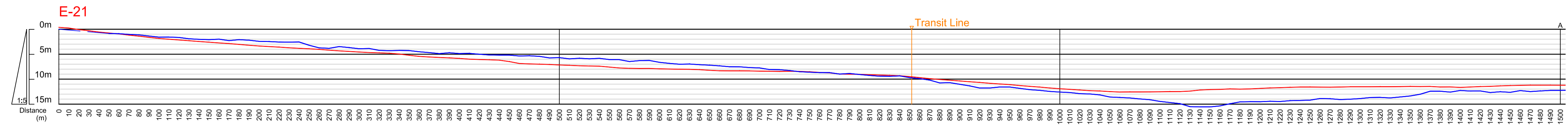


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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	Comparison of cross sections between before and after rainy season at the river mouth area of the Yangon River

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	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	E-20
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



E-21	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,820,855.24	214,764.05	0
Transit Line	1,821,345.28	215,481.39	855
Left Bank	1,825,199.90	220,947.00	7,557

— Before Rainy Season  
— After Rainy Season



MYANMA PORT AUTHORITY (MPA)



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Project Name  
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Projection  
 UTM Zone 47 N  
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 WGS - 84  
 Datum Level  
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 Revision  
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Date of Survey  
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