

Sheet No. 1 of 4 sheets

Station Number:

Meas. No:

Station Name: Ohio River below Cairo

Date: 05/15/2011

Party: BB,CR

Width: 5,020 ft

Processed by: BB

Boat/Motor: wooldridge

Area: 200,000 ft²

Mean Velocity: 4.49 ft/s

Gage Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: 900,000 ft³/s

Area Method: Avg. Course

ADCP Depth: 2.200 ft

Index Vel.: 0.00 ft/s

Rating No.: 1

Nav. Method: DGPS

Shore Ens.:10

Adj.Mean Vel: 0.00 ft/s

Qm Rating: F

MagVar Method: ~~None~~ (-1.6°) MODEL

Bottom Est: Power (0.1667)

Rated Area: 0.000 ft²

Diff.: 0.000%

Depth Sounder: Not Used

Top Est: Power (0.1667)

Control1: Unspecified

Control2: Unspecified

Control3: Unspecified

Screening Thresholds:

BT 3-Beam Solution: YES

Max. Vel.: 11.0 ft/s

WT 3-Beam Solution: NO

Max. Depth: 91.1 ft

BT Error Vel.: 0.33 ft/s

Mean Depth: 40.0 ft

WT Error Vel.: 32.81 ft/s

% Meas.: 76.71

BT Up Vel.: 32.81 ft/s

Water Temp.: None

WT Up Vel.: 32.81 ft/s

ADCP Temp.: 19.2 °C

Use Weighted Mean Depth: NO

ADCP:

Type/Freq.: Rio Grande/600 kHz

Serial #:

Firmware: 10.16

Bin Size: 44 cm

Blank: 25 cm

BT Mode: 5

BT Pings: 1

WT Mode: 12

WT Pings: 1

WV : 170

WO : 1, 4

Performed Diag. Test: NO

Project Name: ohioabovecairo200011-0

Performed Moving Bed Test: NO

Software: 2.07

Performed Compass Test: NO

Meas. Location: below Cairo

Tr.#		Edge Distance		#Ens.	Discharge						Width	Area	Time		Mean Vel.		% Bad	
		L	R		Top	Middle	Bottom	Left	Right	Total			Start	End	Boat	Water	Ens.	Bins
001	L	634	563	616	68611	716666	70538	4189	9517	869521	5006	200177	16:48	16:56	8.34	4.34	1	0
002	R	634	563	573	85620	663879	165147	4662	10850	930157	5025	200645	16:56	17:03	9.04	4.64	5	18
Mean		634	563	594	77116	690273	117842	4425	10183	899839	5015	200411	Total	00:15	8.69	4.49	3	9
SDev		0	0	30	12028	37326	66898	335	942	42876	13.2	330.6			0.49	0.21		
SD/M		0.00	0.00	0.05	0.16	0.05	0.57	0.08	0.09	0.05	0.00	0.00			0.06	0.05		

Remarks:

Station Number:

Meas. No:

Station Name: Ohio River below Cairo

Date: 05/15/2011

Party: BB,CR

Width: 4,980 ft

Processed by: BB

Boat/Motor: wooldridge

Area: 198,000 ft²Mean Velocity: ~~4.32 ft/s~~ 4.57

Gage Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: ~~857,000 ft³/s~~ 904,613

Area Method: Avg. Course

ADCP Depth: 2.200 ft

Index Vel.: 0.00 ft/s

Rating No.: 1

Nav. Method: Bottom Track *LOOP*

Shore Ens.: 10

Adj. Mean Vel: 0.00 ft/s

Qm Rating: F

MagVar Method: None (-1.6°) *CORRECTED*

Bottom Est: Power (0.1667)

Rated Area: 0.000 ft²

Diff.: 0.000%

Depth Sounder: Not Used

Top Est: Power (0.1667)

Control1: Unspecified

Control2: Unspecified

Control3: Unspecified

Screening Thresholds:

BT 3-Beam Solution: YES

Max. Vel.: 8.55 ft/s

ADCP:

WT 3-Beam Solution: NO

Max. Depth: 91.1 ft

Type/Freq.: Rio Grande/600 kHz

BT Error Vel.: 0.33 ft/s

Mean Depth: 39.8 ft

Serial #:

Firmware: 10.16

WT Error Vel.: 32.81 ft/s

% Meas.: 77.66

Bin Size: 44 cm

Blank: 25 cm

BT Up Vel.: 32.81 ft/s

Water Temp.: None

BT Mode: 5

BT Pings: 1

WT Up Vel.: 32.81 ft/s

ADCP Temp.: 19.2 °C

WT Mode: 12

WT Pings: 1

Use Weighted Mean Depth: NO

WV : 170

WO : 1, 4

Performed Diag. Test: NO

Project Name: ohioabovcairo200011-0

Performed Moving Bed Test: NO

Software: 2.07

Performed Compass Test: NO

Meas. Location: below Cairo

Tr.#	Edge Distance		#Ens.	Discharge						Width	Area	Time		Mean Vel.		% Bad	
	L	R		Top	Middle	Bottom	Left	Right	Total			Start	End	Boat	Water	Ens.	Bins
001 L	634	563	616	67125	704958	69364	4238	9896	855580	4993	199634	16:48	16:56	8.32	4.28	2	0
002 R	634	563	573	75822	625573	141237	4517	10504	857653	4962	196961	16:56	17:03	8.96	4.35	7	17
Mean	634	563	594	71473	665266	105301	4377	10200	856617	4978	198298	Total	00:15	8.64	4.32	4	9
SDev	0	0	30	6150	56134	50822	198	430	1466	21.5	1890.5			0.45	0.05		
SD/M	0.00	0.00	0.05	0.09	0.08	0.48	0.05	0.04	0.00	0.00	0.01			0.05	0.01		

Remarks:

LC Version 3.20, July 8, 2010

Processed on: 15-May-2011

Loop File: ohioabovECAIRO200011-05-15_ASC.TXT

Distance Made Good (ft)	Loop Time (sec)	Moving Bed Velocity (ft/s)	Moving Bed Direction (degrees)	Flow Direction (degrees)	Estimated Percent Correction (percent)
178.68	907.48	0.20	283.51	127.32	5.67

Percent Bad Bottom Track: 3.4

Difference in flow direction between out and back sections: 1.4 deg

Loop Indicates a Moving Bed -- Select transects to be corrected

File Name	Original Discharge cfs	Adjusted Discharge cfs
oabovECAIRO200111-05-15_ASC.TXT	855580.30	903791.40
oabovECAIRO200211-05-15_ASC.TXT	857653.40	905435.66
Average	856616.85	904613.53