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Chart P

Autographic Transfer, July 1862.

SAILING DIRECTIONS.

GET FAMILIAR WITH THE CHART.

Being in a line between the South end of Newport News Pt and Fog Pt the latter bearing S.S.W.½ W. and the former N.N.E.½ E. dist. ⅞ mile, with about 5 Fathoms water, the course is N.W.½ N. for 5¾ miles, until Pt of Shoals L.H. is open about half a point to the southward of White Shoals L.H. bearing N.W. by W. ½ W. when the course is on this bearing, passing 250 yards to the Southward of White Shoals L.H. and crossing the bar of that Shoal with sixteen feet at mean low water. Keep this course N.W. by W.½ W. for 3¾ miles after passing White Shoal L.H. until Jail Pt at the mouth of Warwick River bears N.E.½ E. and Days Pt bears S.E.½ S. with from 5 to 6 Fathoms water. The course is then West for nearly 2¾ miles into Burwells Bay until Point of Shoals L.H. bears N.½ W., then the course is N. by W. for 1¼ miles, up abreast of Point of Shoals L.H. passing 200 yards to the Westward of which hand is sounded and get in line between it and Deep Water L.H. the latter bearing N. by E. Keep on this course until nearly up with Deep Water L.H. when haul out a little to the Westward and pass it, say 200 yards distant. When past the L.H. bring it on with Pt of Shoals L.H. on a bearing of S. by W. steer N. by E. with this range on for 1½ miles until in a line between the mouth of Skiffs Creek and the north end of Hog Island then steer N.½ W. for ¾ mile, gradually opening Pt of Shoal L.H. to the Westward of Deep Water L.H. until the mouth of Back River is just open to the Northward of Hog Island, when the course is N.W.½ N. towards the head of an old wharf on the north shore for nearly two miles, until the north end of Hog Island bears S.W. by W.½ W. and the mouth of Back River West, then steer West for the mouth of Back River for 1¾ miles, until the north end of Hog Island bears S.S.E.½ E. when the course is S.W.½ W. for ¼ a mile to lower anchorage off Jamestown Island.
Above this point a pilot is necessary or the river must be thoroughly buoyed to make sailing directions available.

To the Northward and Northward & Westward of White Shoals there is a channel through which 4 fathoms can be carried, but it must be well buoyed before sailing directions can be available to strangers. This depth of 4 fathoms can be carried to a point 1 mile above Deep Water L.H. at mean Low water, and at High water spring tides to the lower anchorage off Jamestown Island.

From Deep Water L.H. a channel leads close in to Hog Island through which 11 feet can be taken at mean low water. The directions for this are. To bring Deep Water L.H. on with Mulberry Pt on a bearing of S.S.E.½ E. steer N.N.W.½ W. with this range on, for the east point of the mouth of the Creek opposite north end of Hog Island (called by some Ackershaque Creek) for 3¾ miles from the L.H. until the North Pt of Hog Island bears W.½ S. and so on with the South Pt of Jamestown Island when the course is N.W. by W. for about 1 mile, then haul to the South and Westward to the anchorage.

The distances on these courses, from Newport News Pt are: to White Shoal L.H. 6¾ miles, — to Pt of Shoals L.H. 13¼ miles, — to Deep Water L.H. 19 miles, — to lower anchorage off Jamestown Island 25¼ miles, — to upper end of bar off Jamestown Island 28¼ miles.

The courses and distances from the Jamestown Island to Harrisons bar are as follows. From the upper end of bar at Jamestown Island N.W.½ N. for 3¼ miles, to just above Back River, then W.½ S. for 5 miles across the bar opposite mouth of the Chickahominy, then N.W. by W. for 4½ miles to between Claremont and Lower Brandon, then N. by W. for 3 miles, W. by N.½ N. for 1 mile, and S.W. by W. for 1 mile, to Upper Brandon, then S.W.½ S. for 2 miles, W.½ S. for ¾ mile, N.W.½ W. for ¾ mile, N.½ E. for 1¾ miles and N.W.½ W. for 1 mile to wharf opposite Windmill Pt, then N.W. by W.½ W. for 2 miles, and W.½ N. for 1 mile to lower end of Harrisons bar.
Distance from Jamestown Island bar to Harrison's bar 26½ miles.
From lower end of Harrisons bar to City Pt the distance is 33 miles.
Total distance from Newport News Pt to City Pt by sailing courses is 60½ miles.

The courses and bearings are magnetic, and the distances are in nautical miles.

U. S. COAST SURVEY

A. D. BACHE Supt.

HYDROGRAPHIC RECONNAISSANCE

OF

JAMES RIVER

VIRGINIA

FROM ENTRANCE TO CITY POINT

By Comdr W. T. MUSE & Lieuts. R. WAINWRIGHT & J. N. MAFFITT

U. S. N. Assts. Coast Survy

from 1854 to 59.

SCALE 1/25000

Statute Miles.

Nautical Miles.

TIDE TABLE.

Locality	Revolving time before Point Comfort Flood & Ebb	Mean rise and fall	Mean rise & fall: At Entrance	At Deep Water	Mean duration: Of rise	Of fall
	h. m.	ft.	ft.	ft.	h. m.	h. m.
Newport News Pt	0 00	2 6	3 4	2 7	6 3	6 18
City Pt	2 15	2 8	3 0	2 4	6 14	6 29
Coal's Point	2 25	2 8	3 0	2 8	7 33	4 44
Richmond	4 35	2 9	3 4	2 5	8 28	3 49
Petersburg	4 45	2 0			6 42	5 34

Magnetic Variation.

At Old Point Comfort	1° 22' West.
At Richmond	0° 27' "
At Petersburg	0° 46' "

Note.

The Soundings are expressed in feet, and show the depth at Mean Low Water. The dotted lines below Low Water mark represent the bottom at the respective depths of 6, 12, & 18 feet, Plate.....for 6 feet, ... 12 ft. ..... 18 ft.