

MISSOURI RIVER NAVIGATORS MEETING FEBRUARY 14, 2018

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OMAHA DISTRICT BSNP MISSION



Loading up at Fort Calhoun Quarry
September 2017



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MISSOURI RIVER PROJECT OFFICE BUDGET SUMMARY IN-HOUSE MAINTENANCE

FY 13	\$1.75 M
FY 14	\$1.88 M
FY 15	\$1.79 M
FY 16	\$1.33 M
FY 17	\$1.34 M
FY 18	\$1.43 M



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2017 USACE O&M HIGHLIGHTS

- Completed single-beam surveys for the navigation channel in Omaha District (Sioux City to Rulo, 235 river miles), in support of the Inland Electronic Navigation Charts.
- Investigated potential shoaling in Brownville Bend and Lower Decatur Bend.
- Placed 24,750 tons of stone to maintain or restore navigation structures during the work season.



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MISSOURI RIVER STRUCTURE MAINTENANCE TONS PLACED IN 2017 (INHOUSE CREW)

Big Sioux River (RM 734)	6800
Mile 670	880
Boyer River (RM 635)	2800
Platte River (RM 595)	12,640
Nishnabotna River (RM 542)	1630
Rulo (RM 498)	



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OTOE/HAMBURG BEND CROSSING



TRANSIT THROUGH UPPER SONORA BEND



M/V Expedition slipping past the kicker, with the pile dike
(i.e., the old bankline) in the foreground.

July 2017



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DIKE FIELD IN UPPER SONORA BEND EXPANDED AREA



Post-flood dikes along cut-back right bank. Note that the dikes have different elevations, to be effective for a range of flows.

September 2017.



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UPPER SONORA BEND



Right descending bank (foreground, in from pile dike) was carved out by the 2011 flood event. The glassy surfaced water is on the channel side of the kicker structure. August 2017.



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DOWNSTREAM DIKE AT UPPER SONORA BEND



This dike is the downstream key for upstream structure function and keeping sufficient flow in the channel.

September 2017.



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CHANNEL RECONNAISSANCE

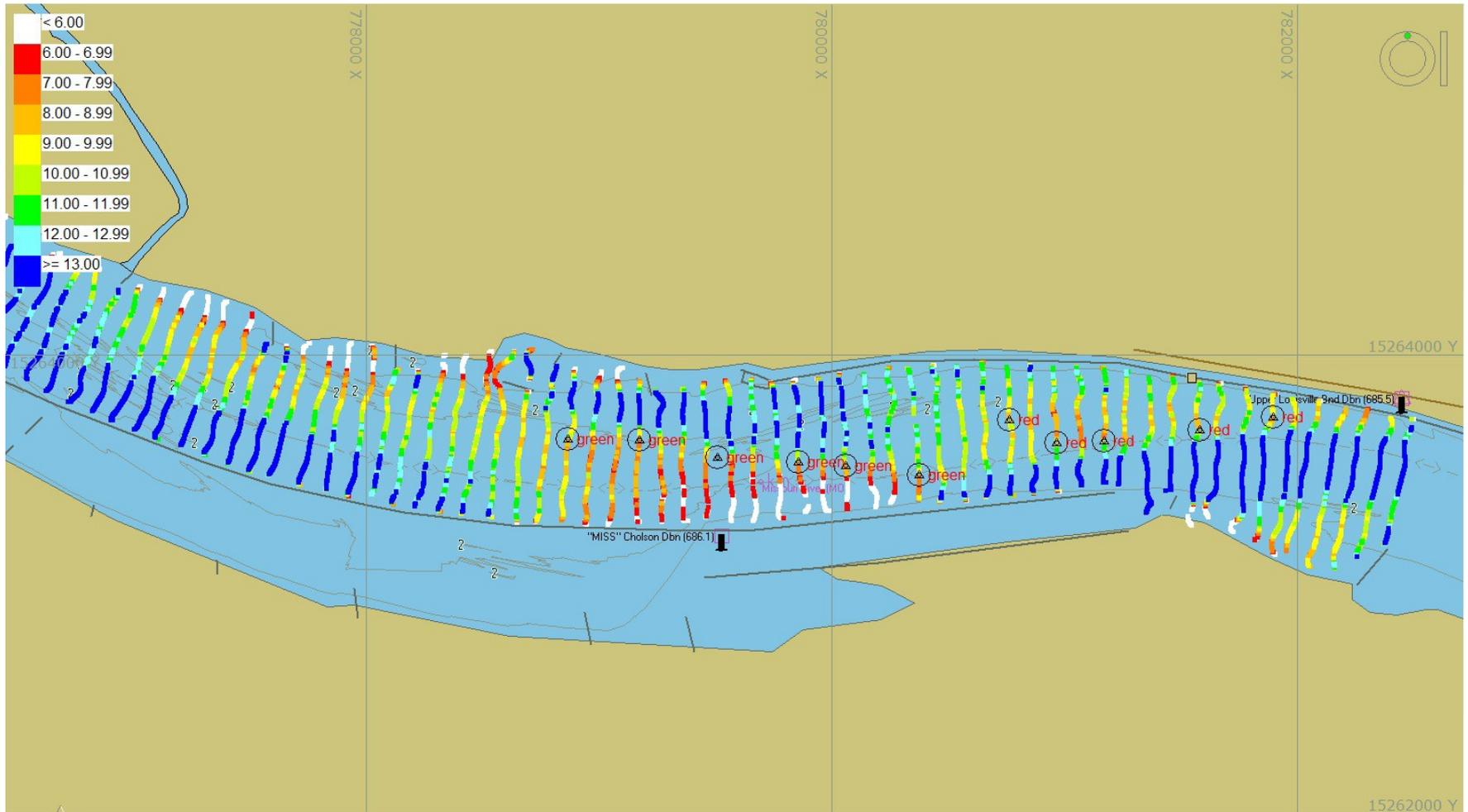
- Sioux City to Rulo
 - Standard reconnaissance - spring 2017
 - Low water reconnaissance - December 2017
- Real-time reconnaissance, August 2017 at Lower Decatur Bend
- Numerous partial reach and site specific reconnaissance trips during the navigation season



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DECATUR/LOUISVILLE CROSSING INFORMATION - 2017



Water depth and virtual buoys, charted in May 2017.



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UPBOUND TO PORT NEAL



M/V G F Engemann with shipment for Port Neal. The August run needed real-time channel reconnaissance at Lower Decatur Bend.
May 2017



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CEMENT SHIPMENTS TO OMAHA



M/V Smitty Upbound at Omaha Riverfront
November 2017



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CEMENT SHIPMENTS TO OMAHA



M/V Smitty Crossing Under the Omaha Pedestrian Bridge
November 2017



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CEMENT SHIPMENTS TO OMAHA



M/V Smitty. 7½ miles to Delivery
November 2017



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CHANNEL WORK PLANNED FOR 2017

- Normal work effort anticipated with the placement of 25,000 to 30,000 tons of maintenance rock.
- Developing 2018 work plan from low water inspection notes.



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TIME FOR QUESTIONS, DISCUSSION



Spirit of Brownville Upbound in Hamburg Bend
September 2017



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