



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

How did the
Inland Electronic Navigation Charts
get their beginning?





US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

Recommended by the

1. National Transportation Safety Board,
2. National Academy of Science, and
3. American Waterways Operators

Congress directed the Corps of Engineers to develop and publish electronic charts for the inland waterways.



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

The Corps of Engineers
Topographic Engineering Center (TEC)
has started development of
Inland Electronic Navigation Charts (IENCs)
on 8,200 miles of rivers – including the

**McClellan-Kerr Arkansas River
Navigation System**

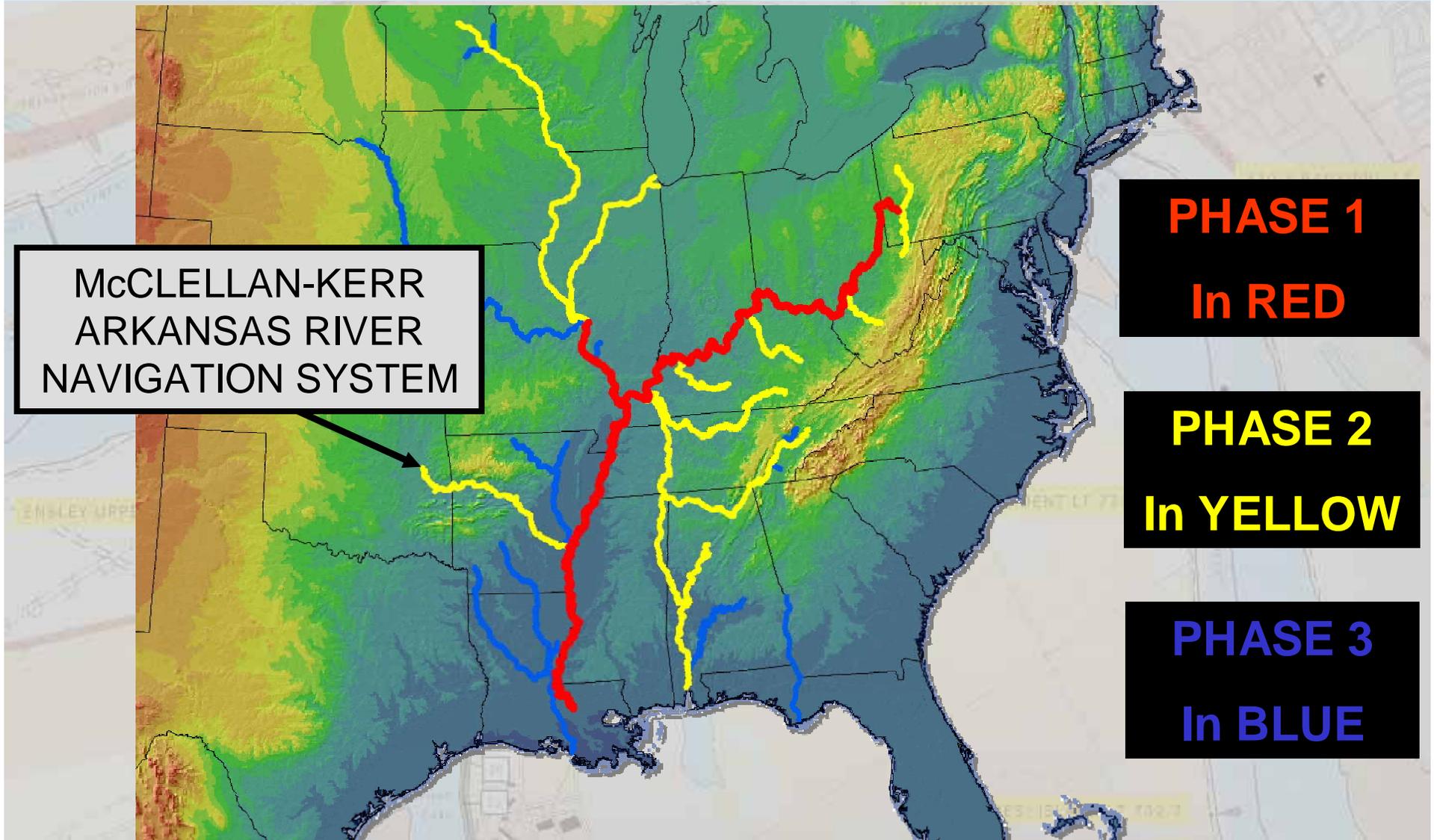


US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts





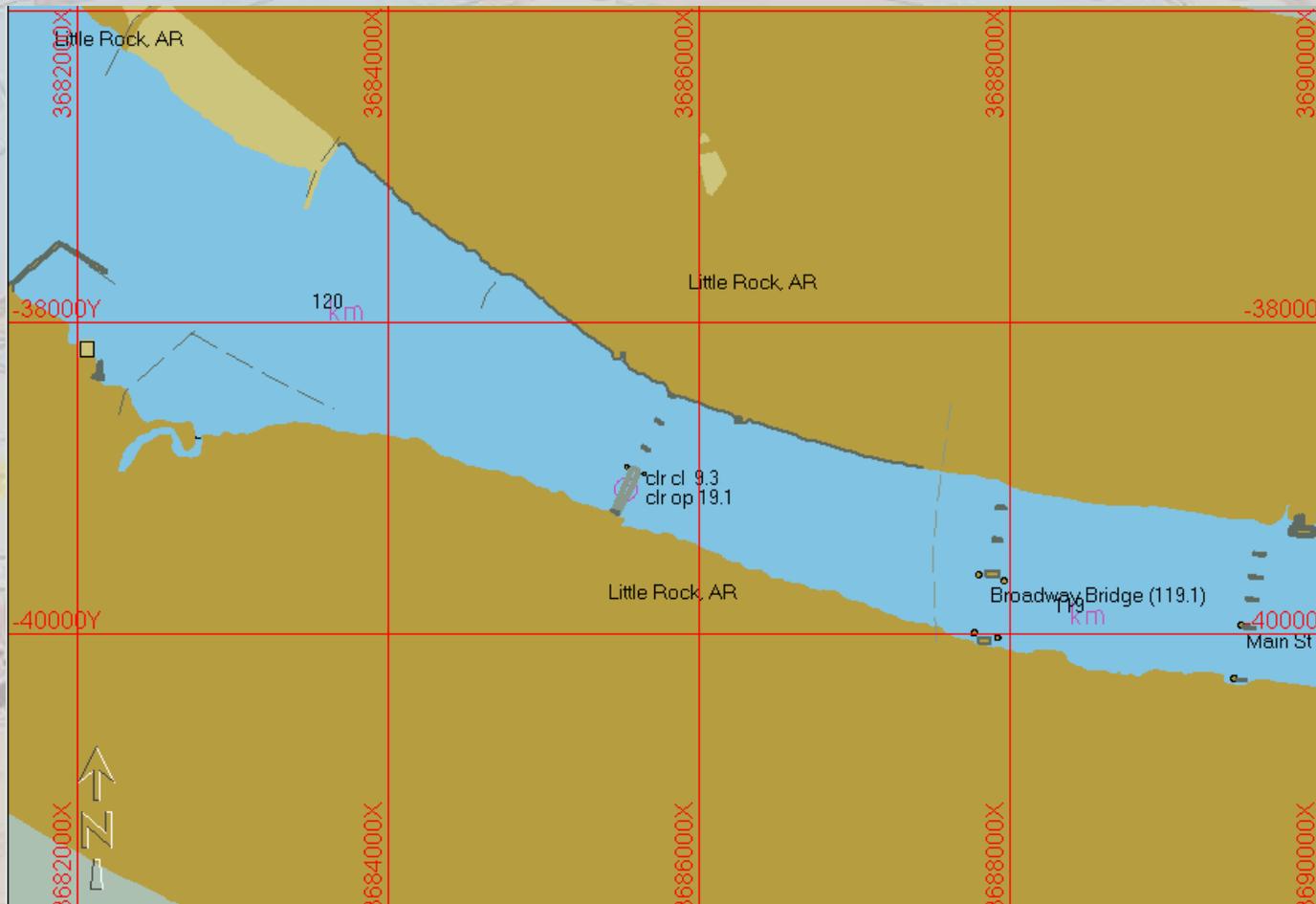
US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

What does an Electronic Navigation Chart look like?





US Army Corps
of Engineers ®

Corps of Engineers



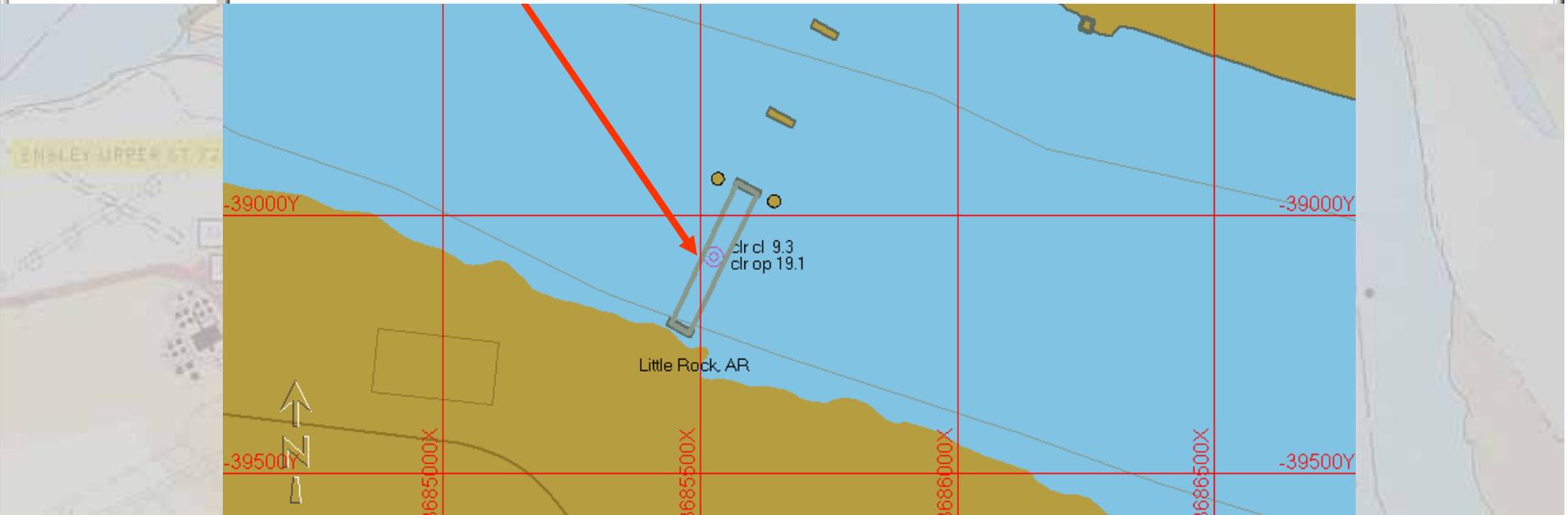
Inland Electronic Navigation Charts

As you zoom in, more symbols should appear.

Query Results

S57 Version 3 Char
Bridge

CATBRG: [lifting bridge]
 VERCCL: [9.3]
 VERCOP: [19.1]
 HORCLR: [95]
 SORDAT: [20050930]
 SORIND: [US,U3_graph,Arkansas_SDS_2005 LL No. 2055]
 INFORM: [Primary Navigation Span. Vertical clearance open = 19.1m (62.7ft). Lift span normally in closed position. To open call :KSK 392 Channel 13.]
 PICREP: [U3AR119601.TIF]
 OBJNAM: [Baring Cross Union Pacific RR Bridge (119.6)]





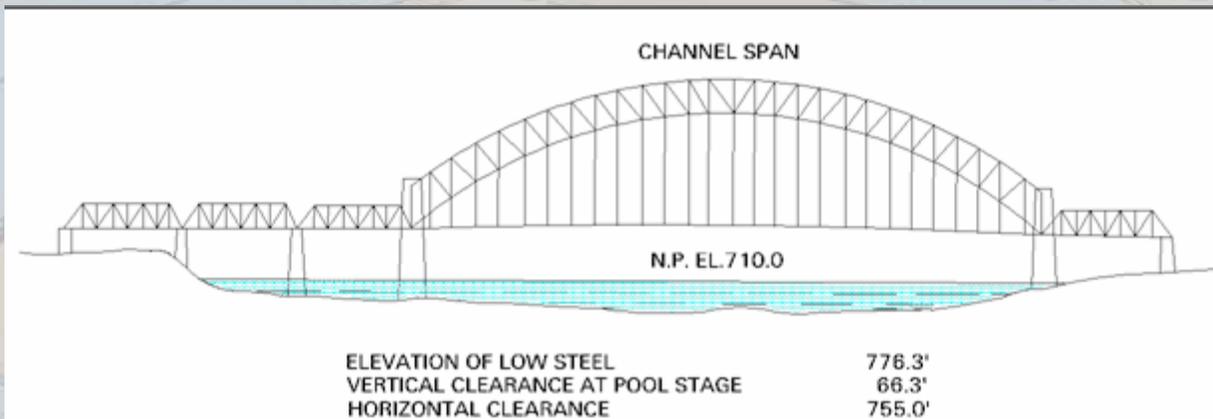
US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

The Electronic Charts will also have photographs



WEST END - NORTH SIDE HIGHWAY BRIDGE (Ohio River Mile 0.8)

Downstream View



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

Status of the Electronic Navigation Charts

Little Rock District

River Mile 0 to 125 have been converted to ENC's and ready for Field Check

River Mile 125 to 308 will be submitted for conversion to ENC's this year

Tulsa District

River Mile 308 to 375 have been submitted for conversion to ENC's

River Mile 375 to 445 will be submitted for conversion to ENC's this year



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

Where can I download the Electronic Charts?

<http://www.tec.army.mil/echarts/inlandnav/>

What do I need to use the Charts?

GPS, Computer and Software to read the Charts

What Software?

Here are a few web sites

<http://www.caris.com>

<http://www.fugawi.com>

<http://www.globenav.com>



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

Paper Charts

- They look different from River to River
- Different Colors
- Different Symbols
- Different Scales

Why can't Paper Charts look the same?



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

Paper Charts can look the same

- There is a national effort underway by the Corps of Engineers to take the data created for the IENCs and create Paper Charts.
- In the future, all Paper Charts will look the same.



US Army Corps
of Engineers ®

Corps of Engineers



Inland Electronic Navigation Charts

LOOK FAMILAR?





US Army Corps
of Engineers ®

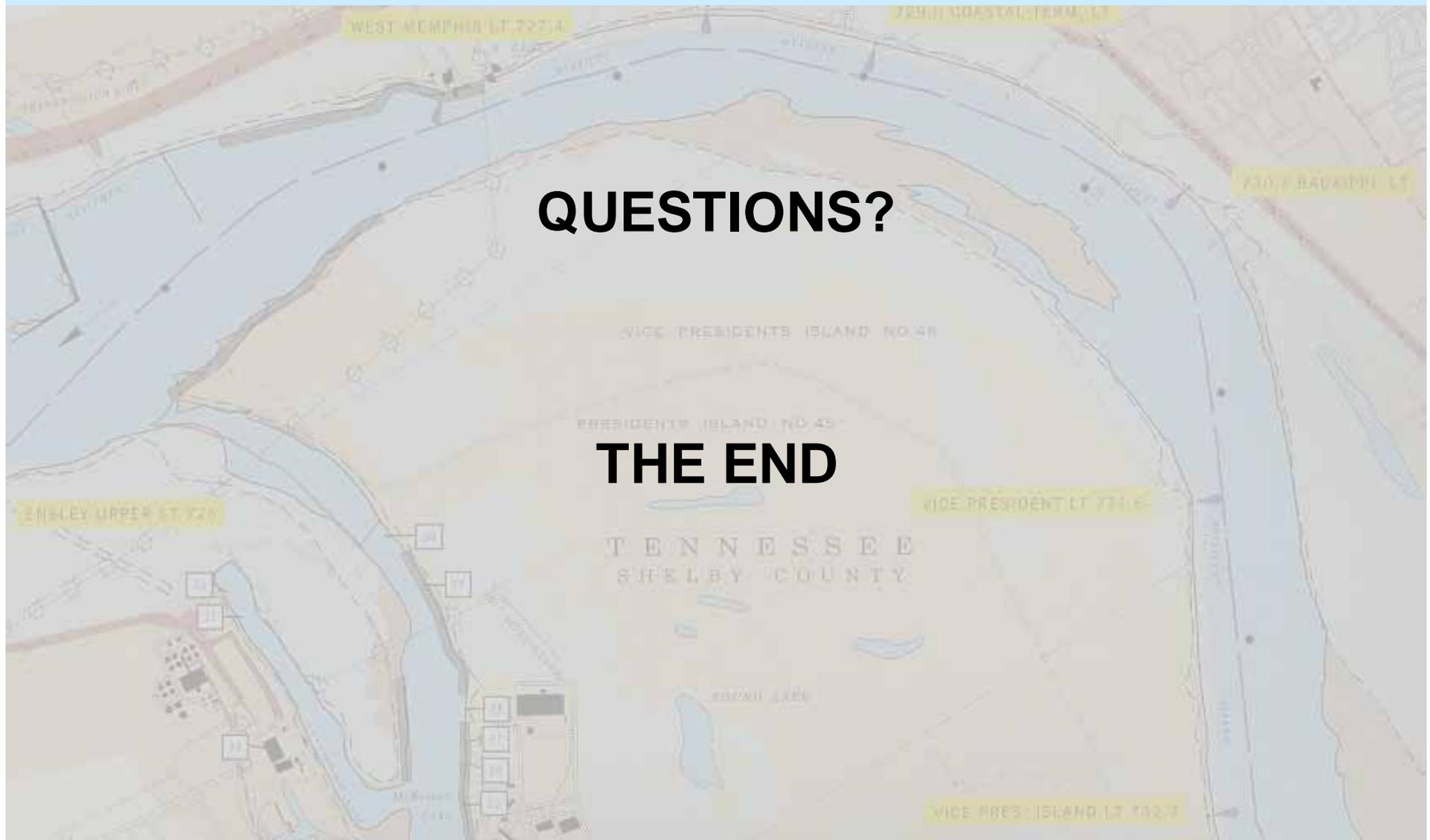
Corps of Engineers



Inland Electronic Navigation Charts

QUESTIONS?

THE END





- 2001_ora_ae
- U350H001



ssion Attributes

Object Descript

Output