

The screenshot shows the NOAA Virtual Observatory interface. A popup window titled "NOAA" is open, displaying an overview and a list of parameters. The overview section describes the data collection process by NOAA's National Data Buoy Center (NDBC) and C-MAN stations. The parameters section lists "Temperature" under the "Meteorological" category. Two blue arrows point from external text to the "PARAMETERS" section and the "For more information and for access to all NOAA buoy data" link.

NOAA X

OVERVIEW

NOAA's National Data Buoy Center (NDBC) collects wind, wave, and other marine data. The data are collected from NDBC moored buoys and from C-MAN (Coastal-Marine Automated Network) stations located on piers, offshore towers, lighthouses, and beaches. Parameters reported by both buoys and C-MAN stations include air temperature and pressure, wind speed and direction, wind gust, and sea surface temperature. The buoys (and a few C-MAN stations located on offshore towers) also report wave data, usually including wave height, wave period, and wave spectra. We've chosen to focus on buoys on the Mississippi River that are equipped with continuous water quality sensors for this website.

PARAMETERS

The following parameters are available from NOAA.

Meteorological

- Temperature

[For more information and for access to all NOAA buoy data.](#)

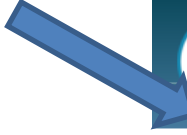
[For more information on collection methods and analysis, take a look at the buoy Data QA/QC procedures](#)

The following are a subset of parameters That are available from NOAA

For *more information and for access to all NOAA buoy data

- Maybe we have to have a disclaimer additional parameters available at the following site

Can we put in
Pretext Site ID?



Great Lakes to Gulf
VIRTUAL OBSERVATORY

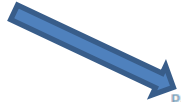
HOME COMPARE SEARCH ABOUT ▾

1. Rename to : “Selected
parameters”

8761955

Time Series

2. Can we put an
information icon here?



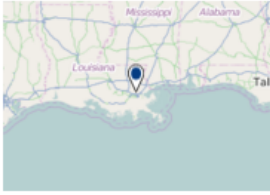
Parameters

owner
Temperature

Date Range 10/28/2001 - 7/8/2015

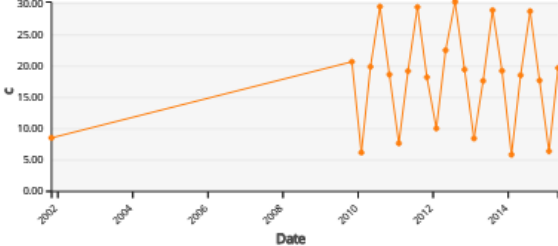
(information icon content
link)

owner
Temperature

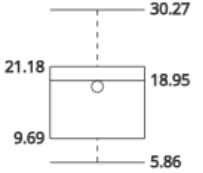


Time Series

Temperature (c)



Box and Whisker



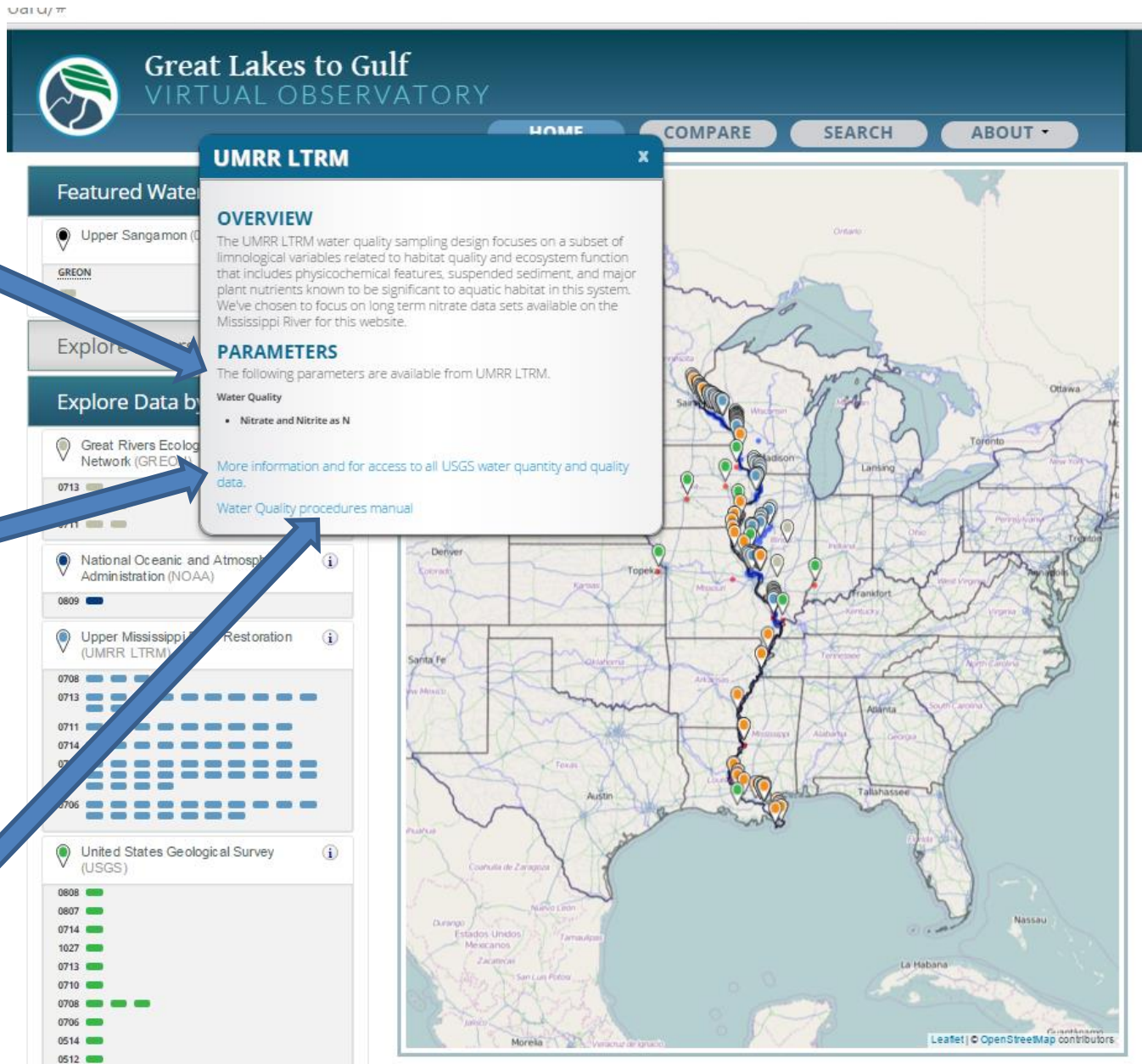
30.27
21.18
18.95
9.69
5.86

For access to additional
NOAA environmental
parameters available
at this site, and for
access to all
NOAA buoy data

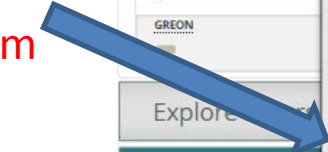
LEWIS & CLARK COMMUNITY COLLEGE The National Great Rivers Research & Education Center NCSA Sea Grant ILLINOIS - INDIANA University of Illinois Department of Civil and Environmental Engineering

This website was developed by NGRREC, Lewis & Clark Community College, University of Illinois National Center for Supercomputing Applications and the University of Illinois at Urbana-Champaign. © 2014 National Center for Supercomputing Applications.

f t in



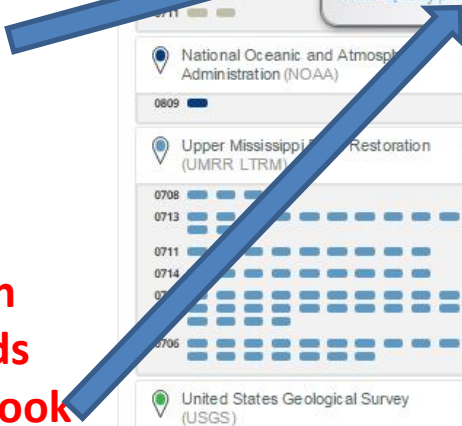
The following are a subset of parameters that are available from UMRR LTRM



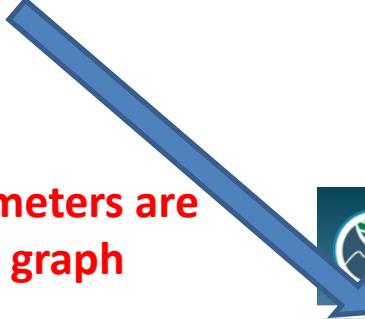
For more information and for access to all UMRR LTRM* data



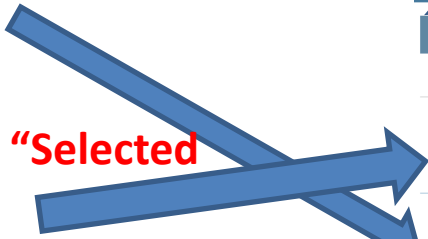
For more information on collection methods and analysis, take a look at the UMRR LTRM procedures manual



Can we put in
Pretext Site ID?



All the nutrient parameters are
being listed, lets just graph
them anyway?



1. Rename to : "Selected
parameters"

2. Can we put an
information icon here?

(information icon content
link)

For access to additional
UMRR LTRM environmental
parameters available
at this site, and for
access to all
UMRR LTRM data

Great Lakes to Gulf
VIRTUAL OBSERVATORY

HOME COMPARE SEARCH ABOUT

RK03.7M

Time Series

Date Range 6/11/1996 - 11/12/2013

Parameters

- Nitrate and Nitrite
- Soluble Reactive Phosphorus
- Total Nitrogen
- Total Phosphorus
- Total Soluble Nitrogen
- Total Soluble Phosphorus

Map showing location near Madison, WI.

Time Series

Nitrate and Nitrite as N (mg/l)

mg/l

Date

Box and Whisker

11.14

8.7

7.45

6.55

4.57

Total Nitrogen

mg/l

Date

11.52

8.86

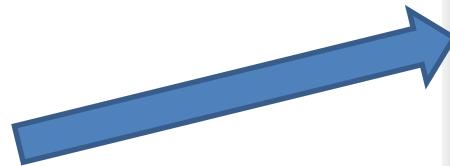
7.7

6.78

5.03

Can we just delete the Sensor locations section? This list is getting Too long

The following are a subset of parameters That are available from USGS



USGS x

OVERVIEW

The USGS investigates the occurrence, quantity, quality, distribution, and movement of surface and underground waters and disseminates the data to the public, State and local governments, public and private utilities, and other Federal agencies involved with managing our water resources. U.S. Geological Survey conducts long-term monitoring of lakes and rivers nationwide. They have gauges throughout many rivers in the Mississippi River basin. We've chosen to focus on gauges on the Mississippi River and its tributaries that are equipped with continuous nitrate sensors for this website.

Sensor Locations

- White River at Hazleton, IN
- Kansas River at Desoto, KS
- Des Moines at 2nd Avenue at Des Moines, IA
- Cedar River at Blairs Ferry road at Palo, IA
- Iowa River at Wapello, IA
- Turkey River at Garber, IA
- Mississippi River at Baton Rouge, LA

PARAMETERS

The following parameters are available from USGS.

Flow

- Discharge

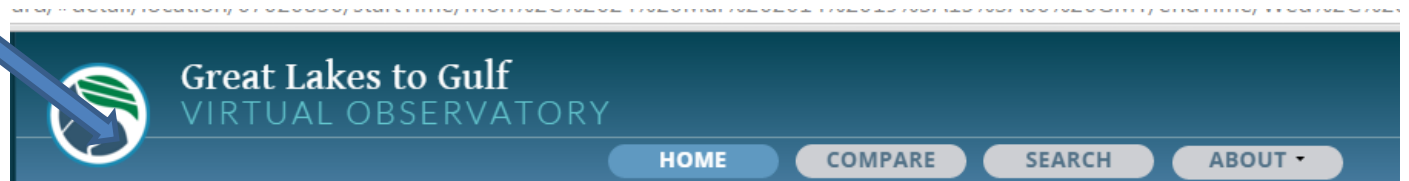
Water Quality

- Nitrate as N

Calculated

- Nitrate Cumulative Load
- Nitrate Load

Can we put in
Pretext Site ID?



Mississippi River at Cape Girardeau, MO

1. Rename to : “Selected parameters”

2. Can we put an information icon here?

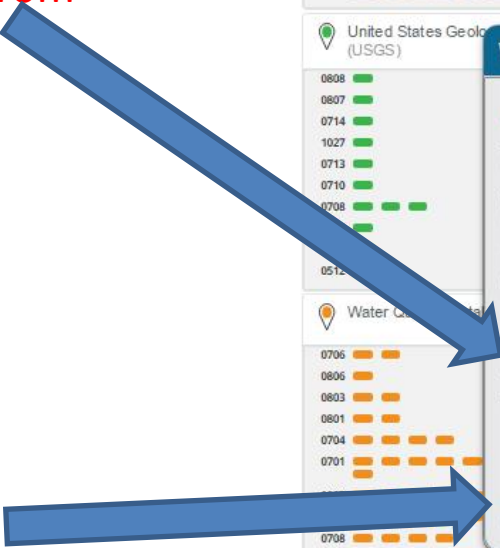
(information icon content link)

For access to additional UMRR LTRM environmental parameters available at this site, and for access to all UMRR LTRM data

The screenshot shows the user interface for the Mississippi River at Cape Girardeau, MO. It includes a 'Parameters' section with a list of checked items: Discharge, Nitrate as N, and owner. Below this is a map of the region. To the right, there is a 'Date Range' slider set to 3/24/2014 - 7/29/2015. Below the slider is a 'Time Series' plot titled 'Discharge (ft3/s)' showing data points from April to July. To the right of the plot is a 'Box and Whisker' plot showing a distribution with a median of 2.29, a box from 2.01 to 2.54, and whiskers extending to 1.24 and 3.29.

The following are a subset of parameters That are available from WQP

For more information and for access to all WQP* data



The screenshot displays the Water Quality Portal (WQP) interface. On the left, there are two lists of monitoring stations: one with green bars and another with orange bars. The main area features a map of the Mississippi River basin with various monitoring points marked. A popup window titled 'WQP' is open, containing the following text:

OVERVIEW
The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA) and the National Water Quality Monitoring Council (NWQMC) that integrates publicly available water quality data from the USGS National Water Information System (NWIS) the EPA STORage and RETrieval (STORET) Data Warehouse, and the USDA ARS Sustaining The Earth's Watersheds - Agricultural Research Database System (STEWARDS). We've chosen to focus on available Water Quality Portal long term (5 years) nitrate data sets available on the Mississippi River and its tributaries for this website.

PARAMETERS
The following parameters are available from WQP:
Water Quality

- Nitrate and Nitrite as N
- Nitrate as N

[More information and for access to all USGS water quantity and quality data.](#)

At the bottom of the interface, there are two buttons: 'Explore Data by River Reaches' and 'Explore Data by Watershed'.

Can we put in
Pretext Site ID?



Great Lakes to Gulf
VIRTUAL OBSERVATORY

HOME COMPARE SEARCH ABOUT ▾

MISSISSIPPI RIVER AT L&D #3 NEAR RED WING, MN

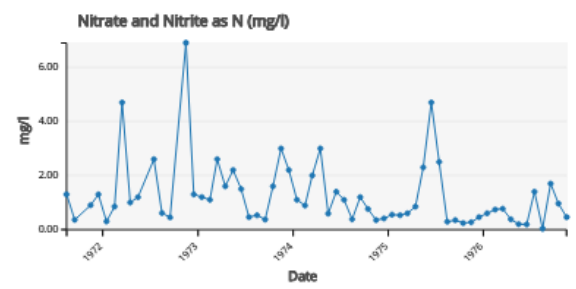
Time Series

Date Range

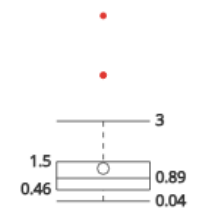
Parameters

Nitrate

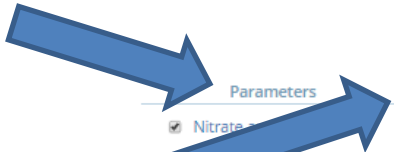
Time Series



Box and Whisker



1. Rename to : "Selected
parameters"



2. Can we put an
information icon here?

(information icon content
link)

For access to additional
UMRR LTRM environmental
parameters available
at this site, and for
access to all
UMRR LTRM data