U.S. Department of the Interior
National Park Service
Natural Resource Stewardship and Science Directorate
Geologic Resources Division

Chattahoochee River National Recreation Area Shoals and Water Hazard Areas Map

GRI Ancillary Map Information Document

Produced to accompany Geologic Resources Inventory (GRI) Digital Geologic Data for Chattahoochee River National Recreation Area

chsh_geology.pdf

Version: 6/10/2015

Geologic Resources Inventory Map Document for Chattahoochee River National Recreation Area

Table of Contents

Geologic Resources Inventory Map Document

Chattahoochee River National Recreation Area, Georgia

Document to Accompany Digital Geologic-GIS Data

chsh_geology.pdf

Version: 6/10/2015

This document has been developed to accompany the digital geologic-GIS data developed by the Geologic Resources Inventory (GRI) program for Chattahoochee River National Recreation Area, Georgia (CHAT).

Attempts have been made to reproduce all aspects of the original source products, including the geologic units and their descriptions, geologic cross sections, the geologic report, references and all other pertinent images and information contained in the original publication.

National Park Service (NPS) Geologic Resources Inventory (GRI) Program staff have assembled the digital geologic-GIS data that accompanies this document.

For information about the status of GRI digital geologic-GIS data for a park contact:

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For information about using GRI digital geologic-GIS data contact:

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About the NPS Geologic Resources Inventory Program

Background

Recognizing the interrelationships between the physical (geology, air, and water) and biological (plants and animals) components of the Earth is vital to understanding, managing, and protecting natural resources. The Geologic Resources Inventory (GRI) helps make this connection by providing information on the role of geology and geologic resource management in parks.

Geologic resources for management consideration include both the processes that act upon the Earth and the features formed as a result of these processes. Geologic processes include: erosion and sedimentation; seismic, volcanic, and geothermal activity; glaciation, rockfalls, landslides, and shoreline change. Geologic features include mountains, canyons, natural arches and bridges, minerals, rocks, fossils, cave and karst systems, beaches, dunes, glaciers, volcanoes, and faults.

The Geologic Resources Inventory aims to raise awareness of geology and the role it plays in the environment, and to provide natural resource managers and staff, park planners, interpreters, researchers, and other NPS personnel with information that can help them make informed management decisions.

The GRI team, working closely with the Colorado State University (CSU) Department of Geosciences and a variety of other partners, provides more than 270 parks with a geologic scoping meeting, digital geologic-GIS map data, and a park-specific geologic report.

Products

Scoping Meetings: These park-specific meetings bring together local geologic experts and park staff to inventory and review available geologic data and discuss geologic resource management issues. A summary document is prepared for each meeting that identifies a plan to provide digital map data for the park.

Digital Geologic Maps: Digital geologic maps reproduce all aspects of traditional paper maps, including notes, legend, and cross sections. Bedrock, surficial, and special purpose maps such as coastal or geologic hazard maps may be used by the GRI to create digital Geographic Information Systems (GIS) data and meet park needs. These digital GIS data allow geologic information to be easily viewed and analyzed in conjunction with a wide range of other resource management information data.

For detailed information regarding GIS parameters such as data attribute field definitions, attribute field codes, value definitions, and rules that govern relationships found in the data, refer to the NPS Geology-GIS Data Model document available at: http://science.nature.nps.gov/im/inventory/geology/GeologyGISDataModel.cfm

Geologic Reports: Park-specific geologic reports identify geologic resource management issues as well as features and processes that are important to park ecosystems. In addition, these reports present a brief geologic history of the park and address specific properties of geologic units present in the park.

For a complete listing of Geologic Resource Inventory products and direct links to the download site visit the GRI publications webpage http://www.nature.nps.gov/geology/inventory/gre_publications.cfm

GRI geologic-GIS data is also available online at the NPS Data Store Search Application: http://irma.nps.gov/App/Reference/Search. To find GRI data for a specific park or parks select the appropriate park

(s), enter “GRI” as a Search Text term, and then select the Search Button.

For more information about the Geologic Resources Inventory Program visit the GRI webpage: http://www.nature.nps.gov/geology/inventory, or contact:

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The Geologic Resources Inventory (GRI) program is funded by the National Park Service (NPS) Inventory and Monitoring (I&M) Division.

GRI Digital Map and Source Map Citation

An additional GRI digital GIS map for Chattahoochee River National Recreation Area, Georgia (CHAT):

Digital Shoals and Water Hazard Areas Map of Chattahoochee River National Recreation Area, Georgia (*GRI MapCode CHSH*)

Produced from the following source digital data and map.

Hundley, Jeffrey Britton, 2014, Shoals Map of Chattahoochee River National Recreation Area, Georgia: GeoCorps of America, unpublished map, scale 1:24,000 (GeoCorps unpublished map). (*GRI Source Map ID 76002*).

Photograph Localities

Present in the digital GIS data are numerous GPS localities where a photographic was taken. Each photograph locality is assigned a ID or station number (e.g., DSC0001). Included with the GIS data for each locality is also the azimuth or direction the photograph was taken. Below are the photographs for each locality.

Note that a few photographs are "too blurry from movement (taken on a kayak while drifting) and a couple had water droplets on the lense obscuring the image. I took the photos with my GPS' integrated camera and they were fairly difficult to quality check in the field (due to glare from sun and low resolution display screen) (personal communication from source author, June 6, 2015). This also explains why several station numbers in the number sequence are missing (e.g., DSC0050 is not present). These station numbers are also omitted from the digital GIS data.

Photograph DSC00001

Extracted from: (GeoCorps unpublished map).

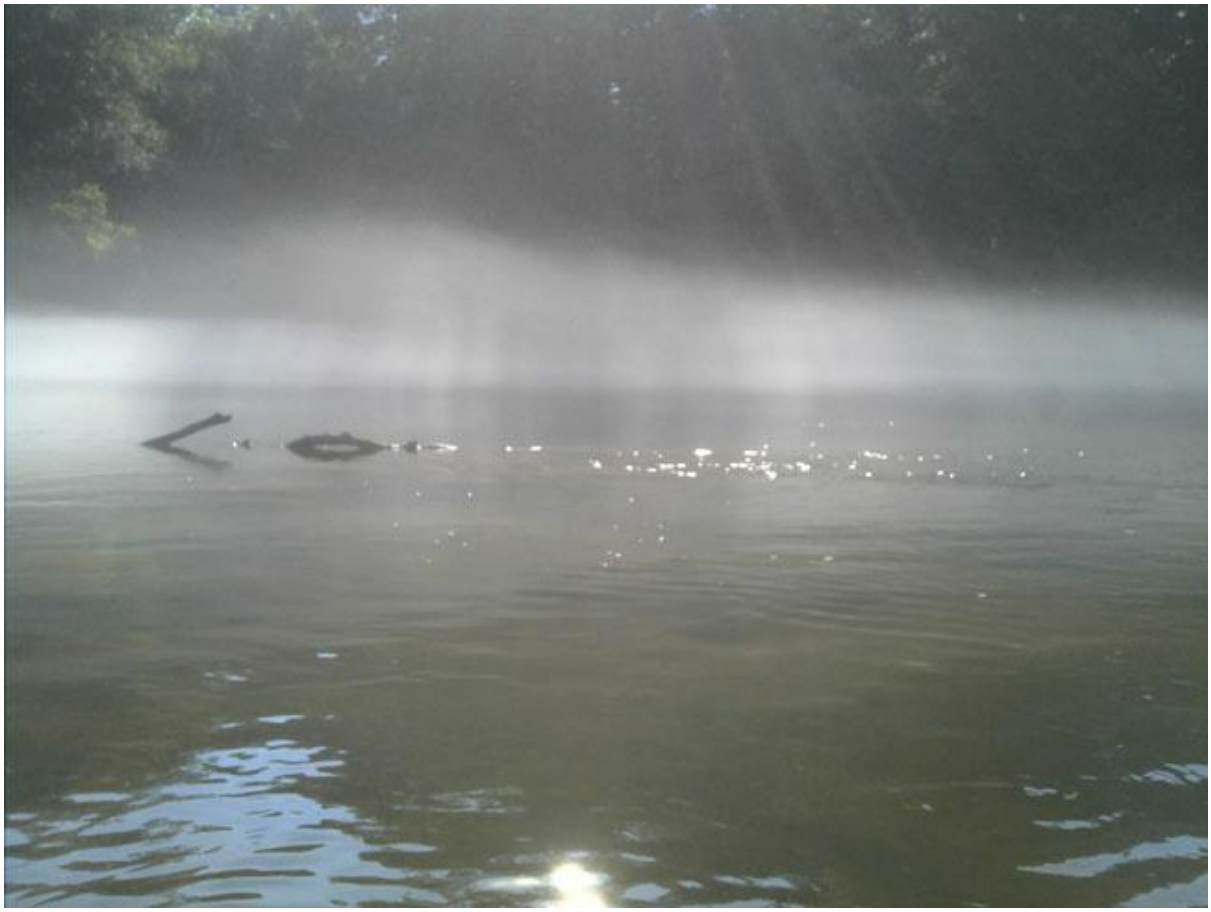
Photograph DSC00002

Extracted from: (GeoCorps unpublished map).

Photograph DSC00003

Extracted from: (GeoCorps unpublished map).

Photograph DSC00004



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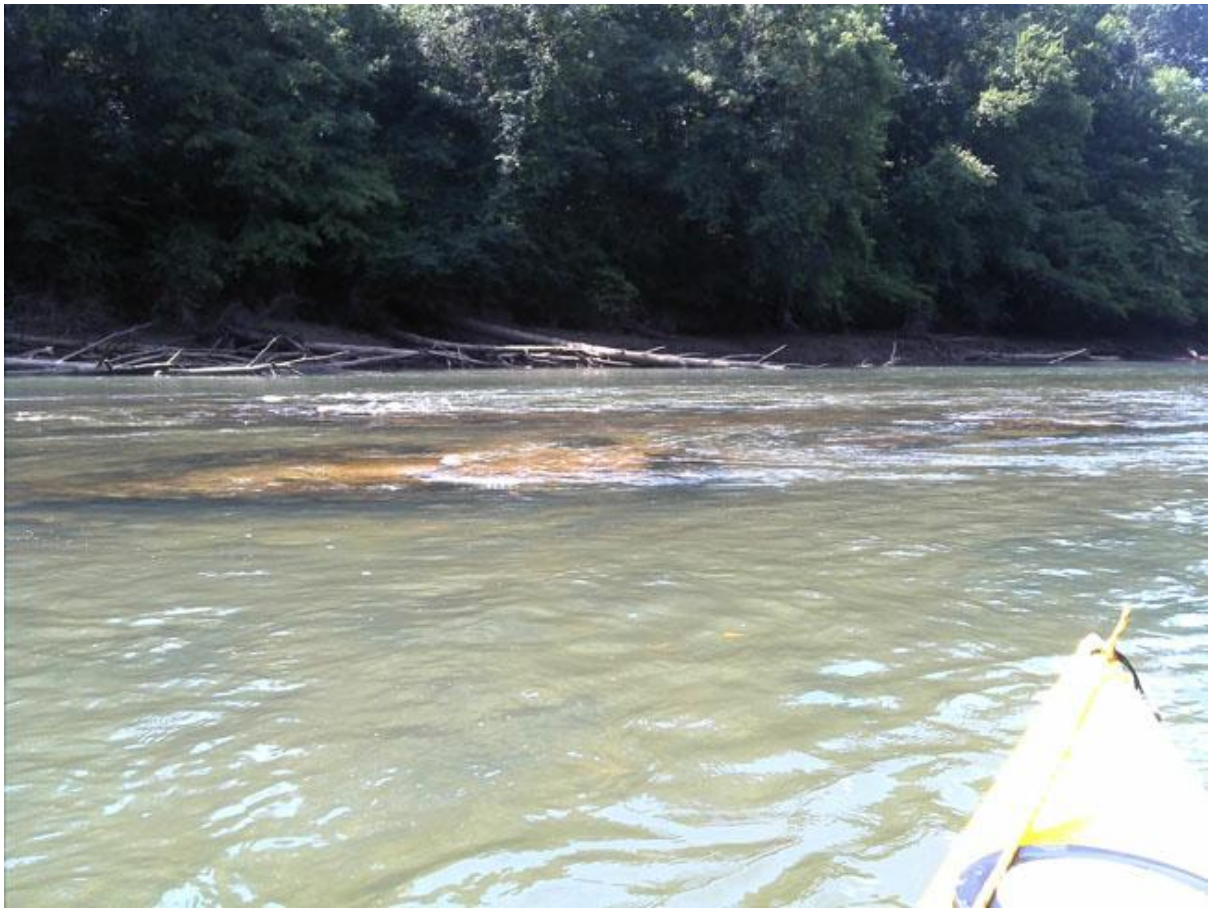

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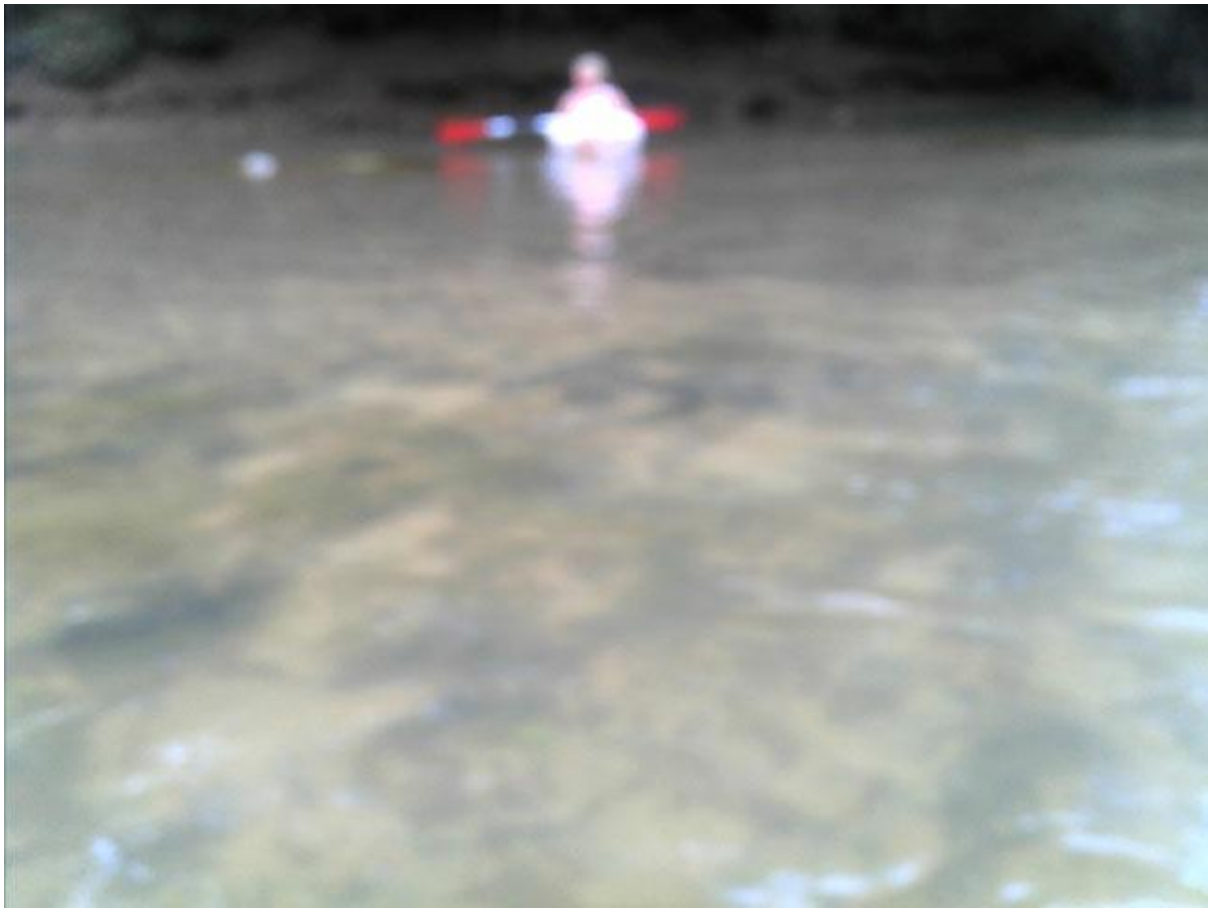

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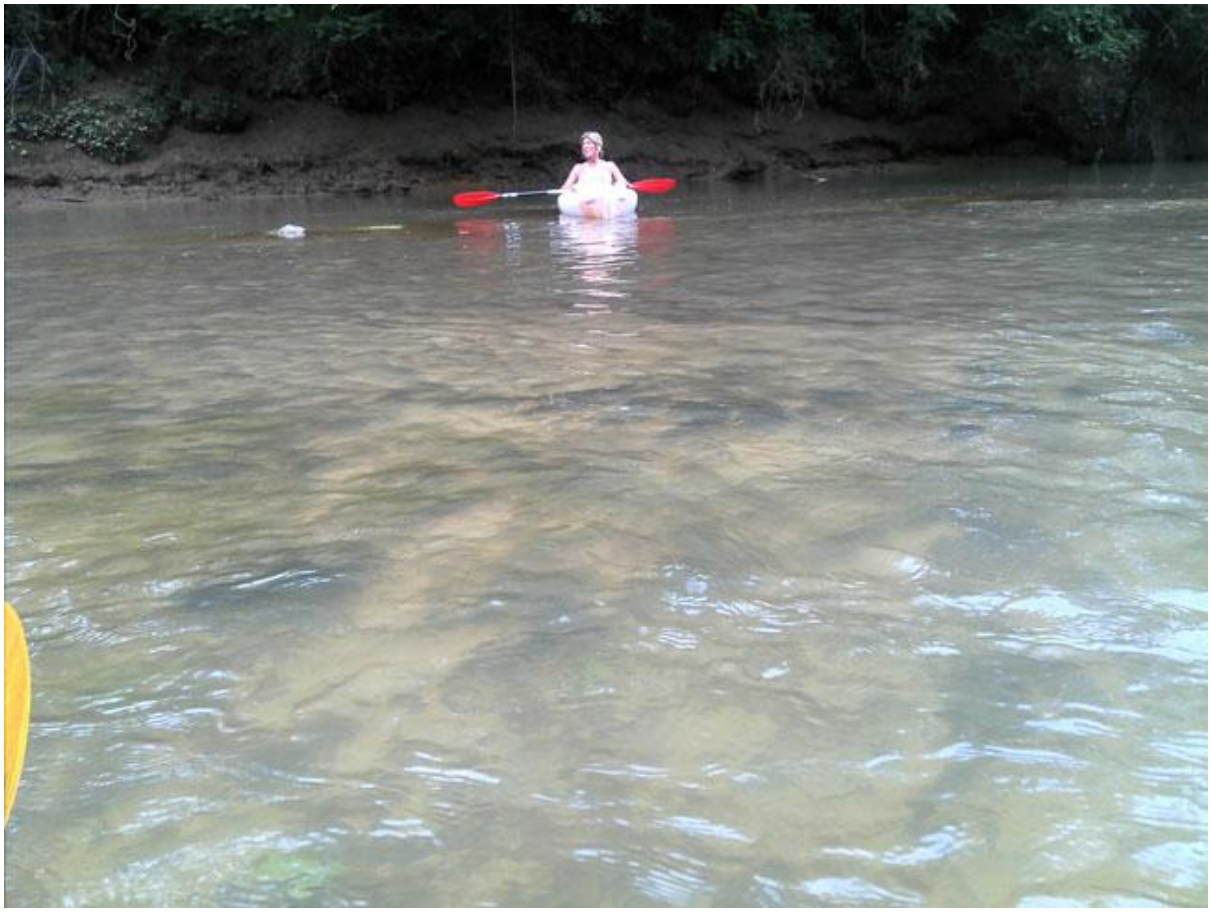

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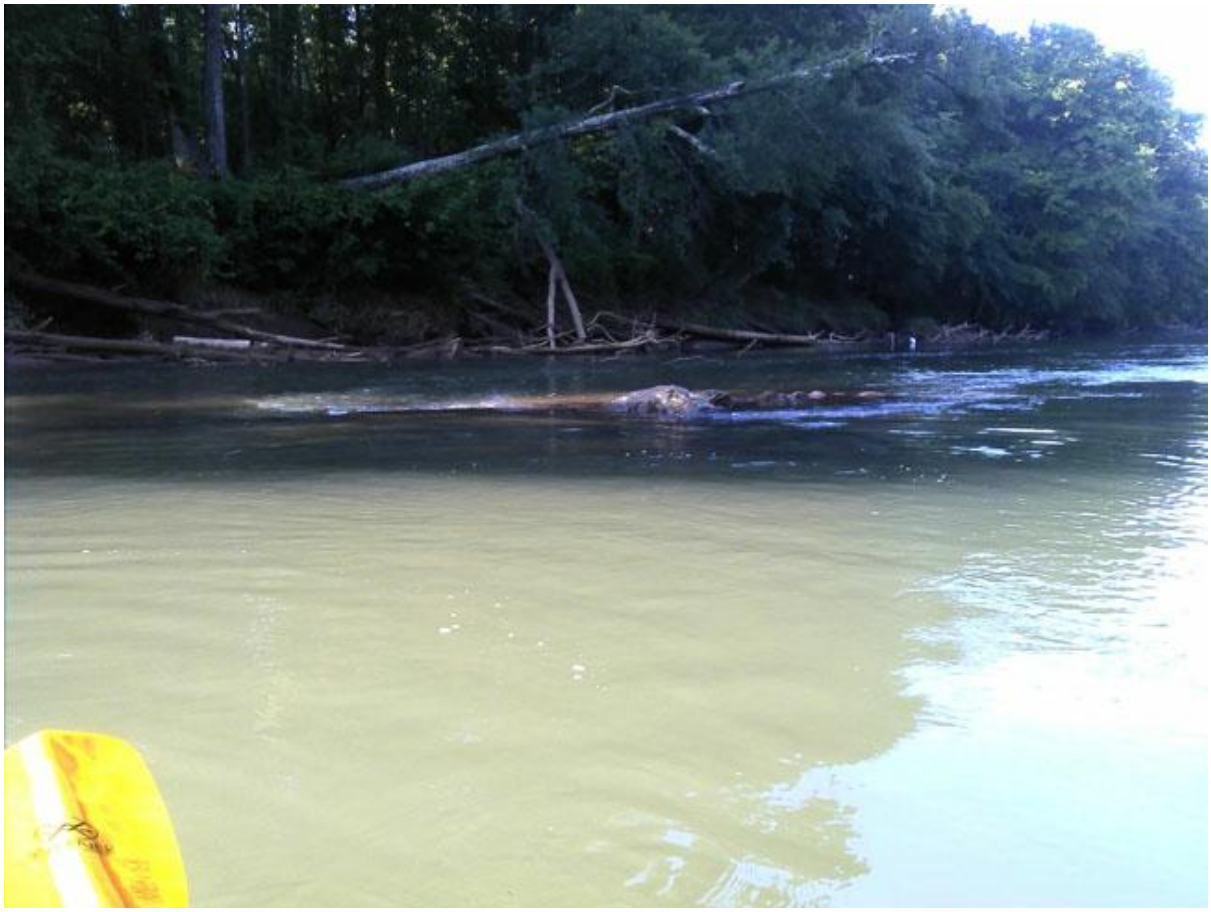

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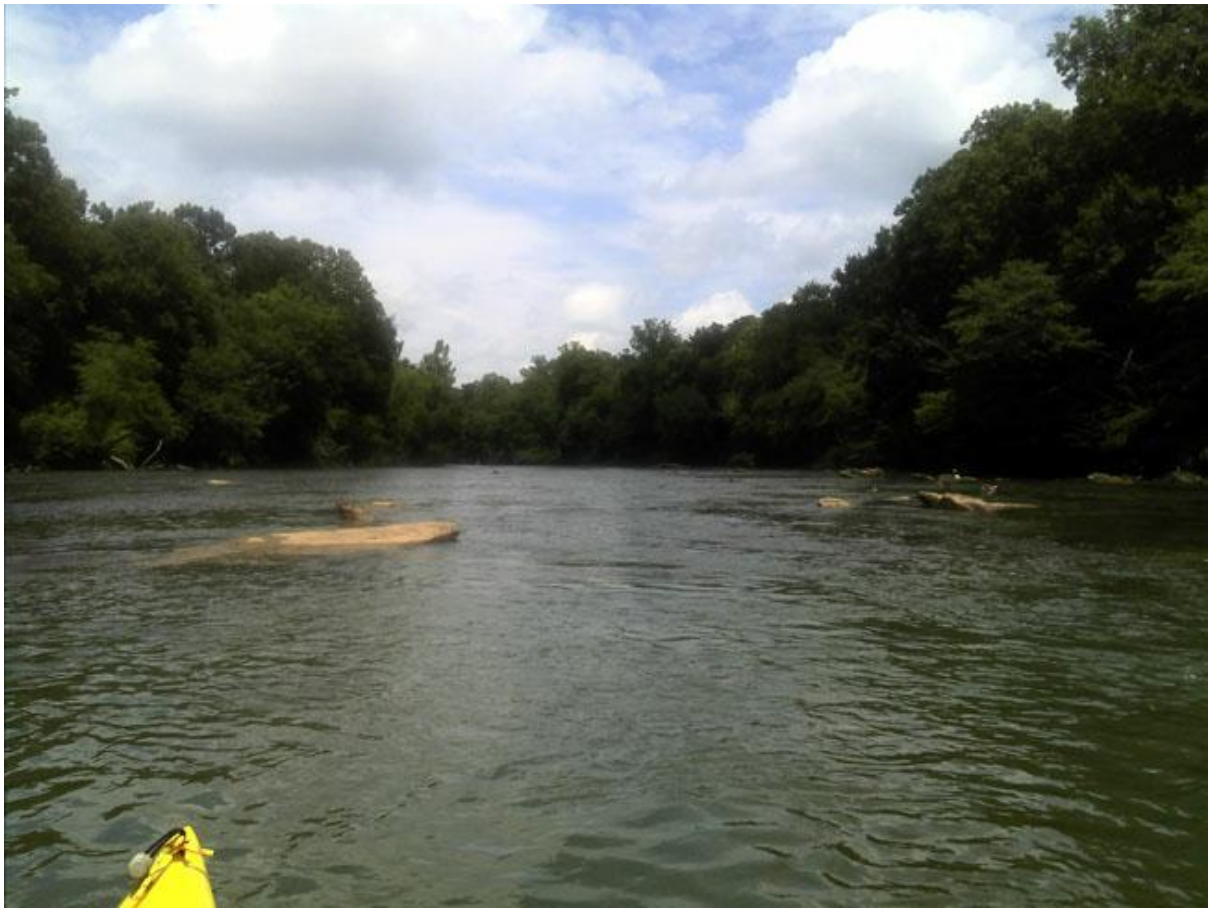

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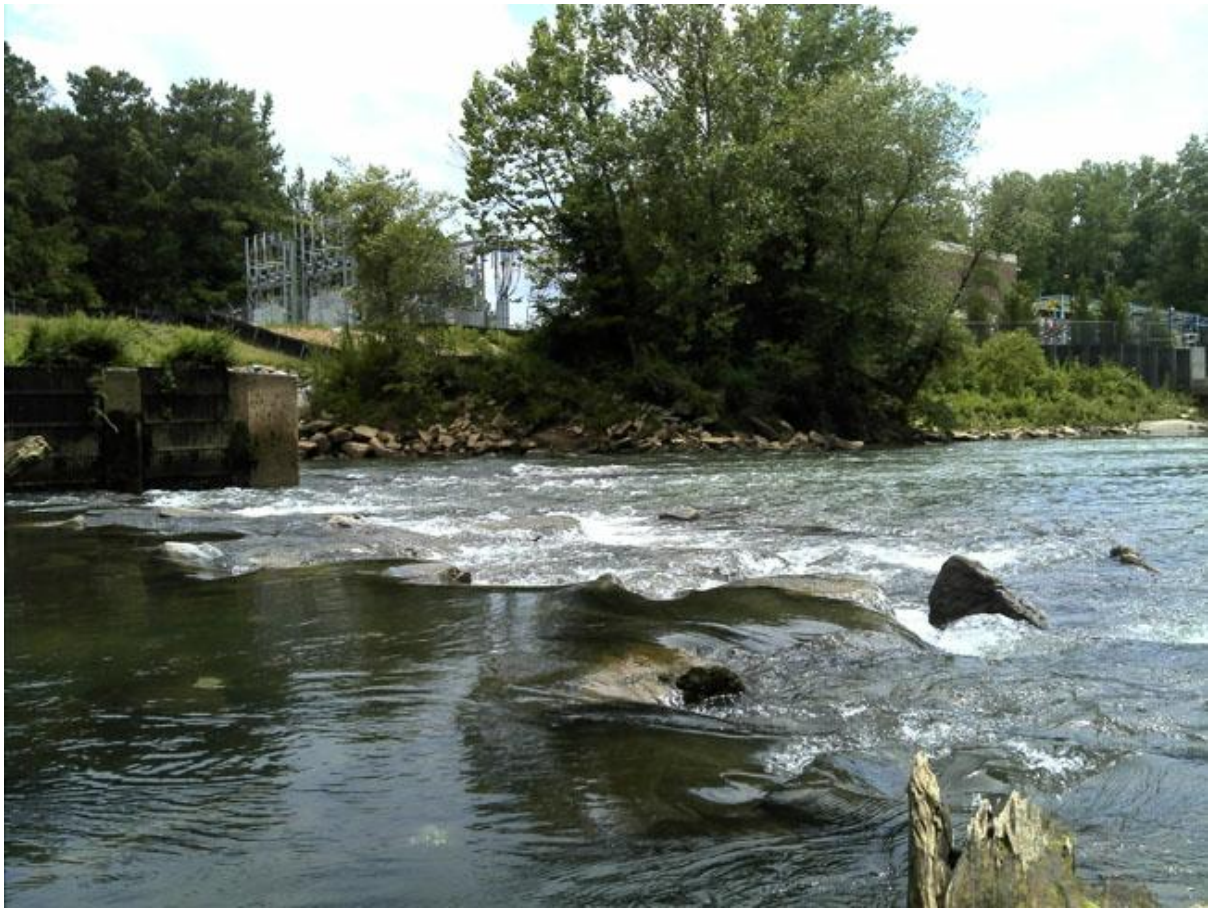

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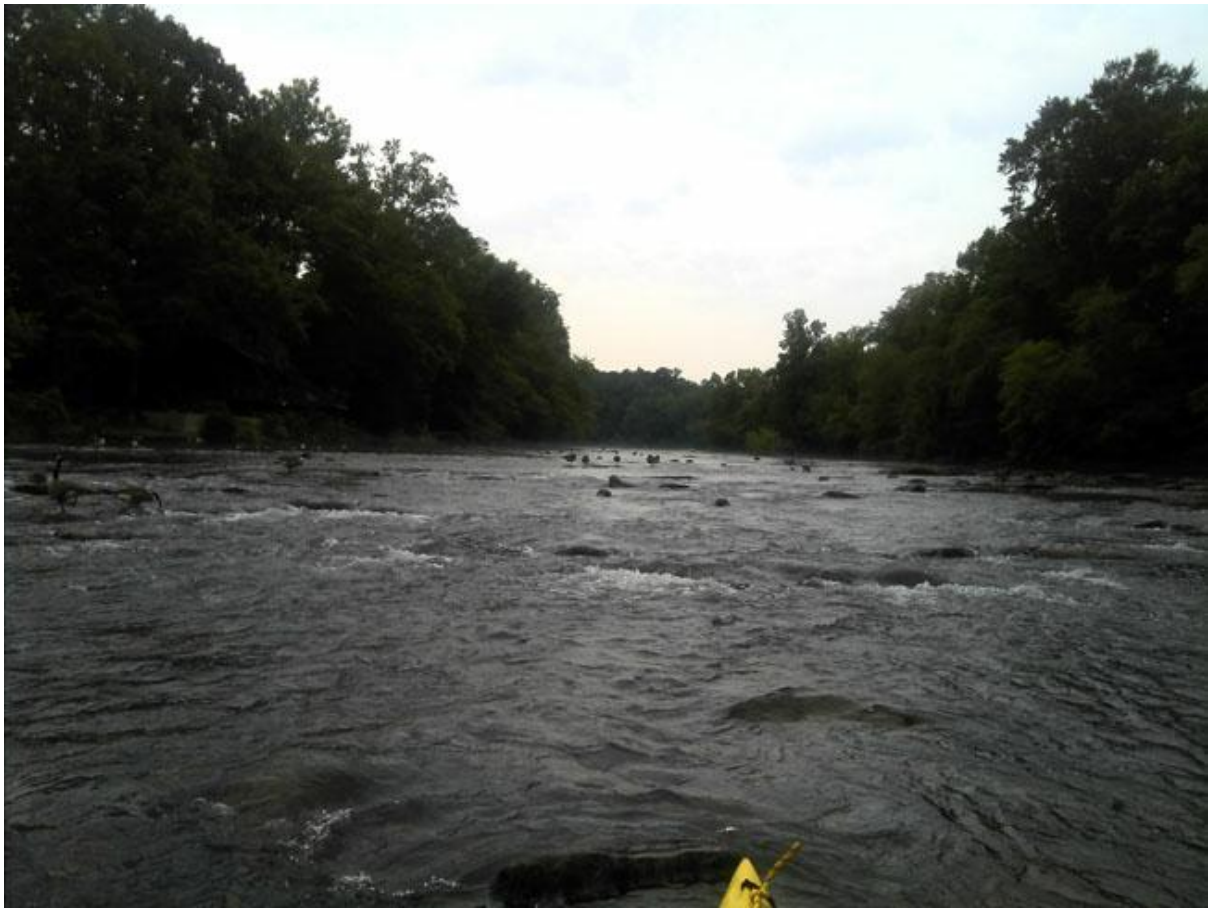

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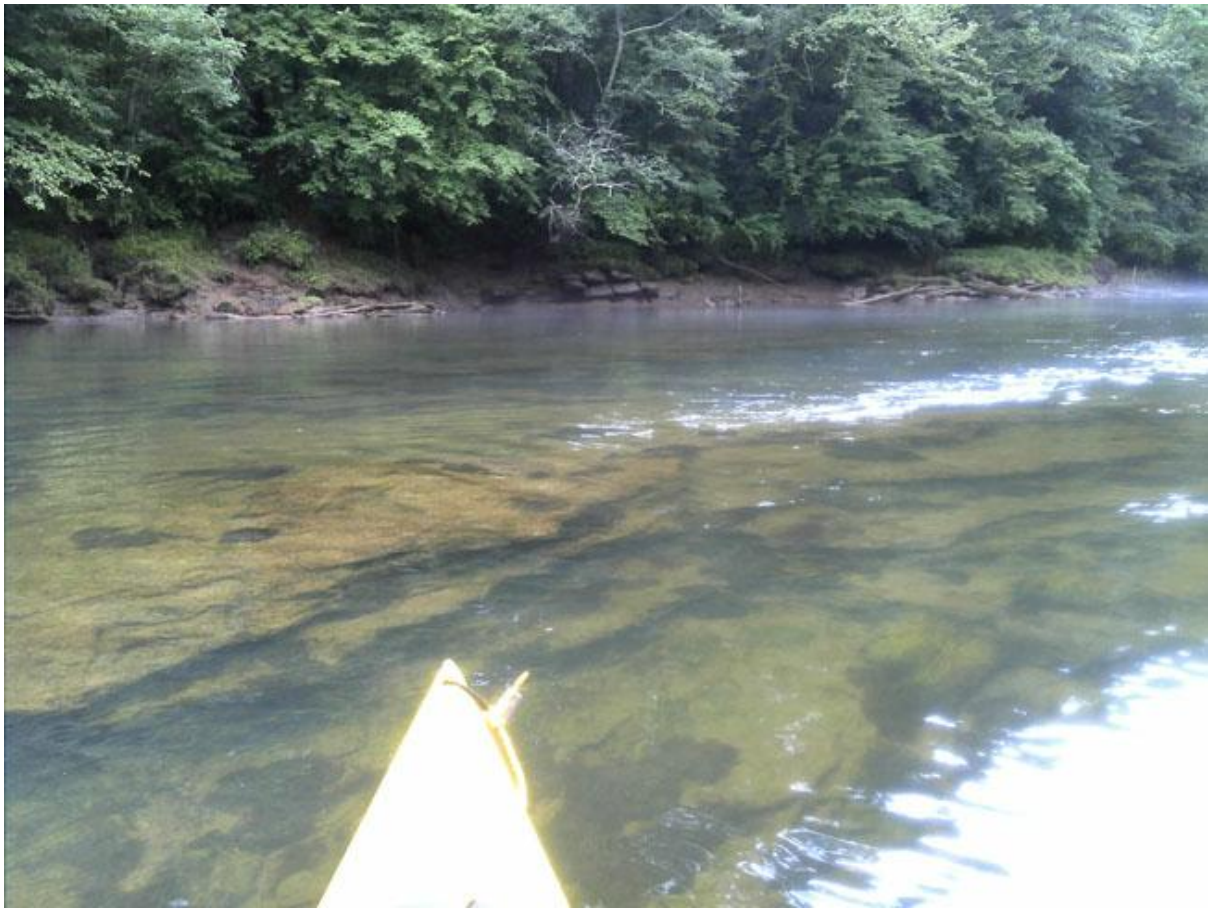

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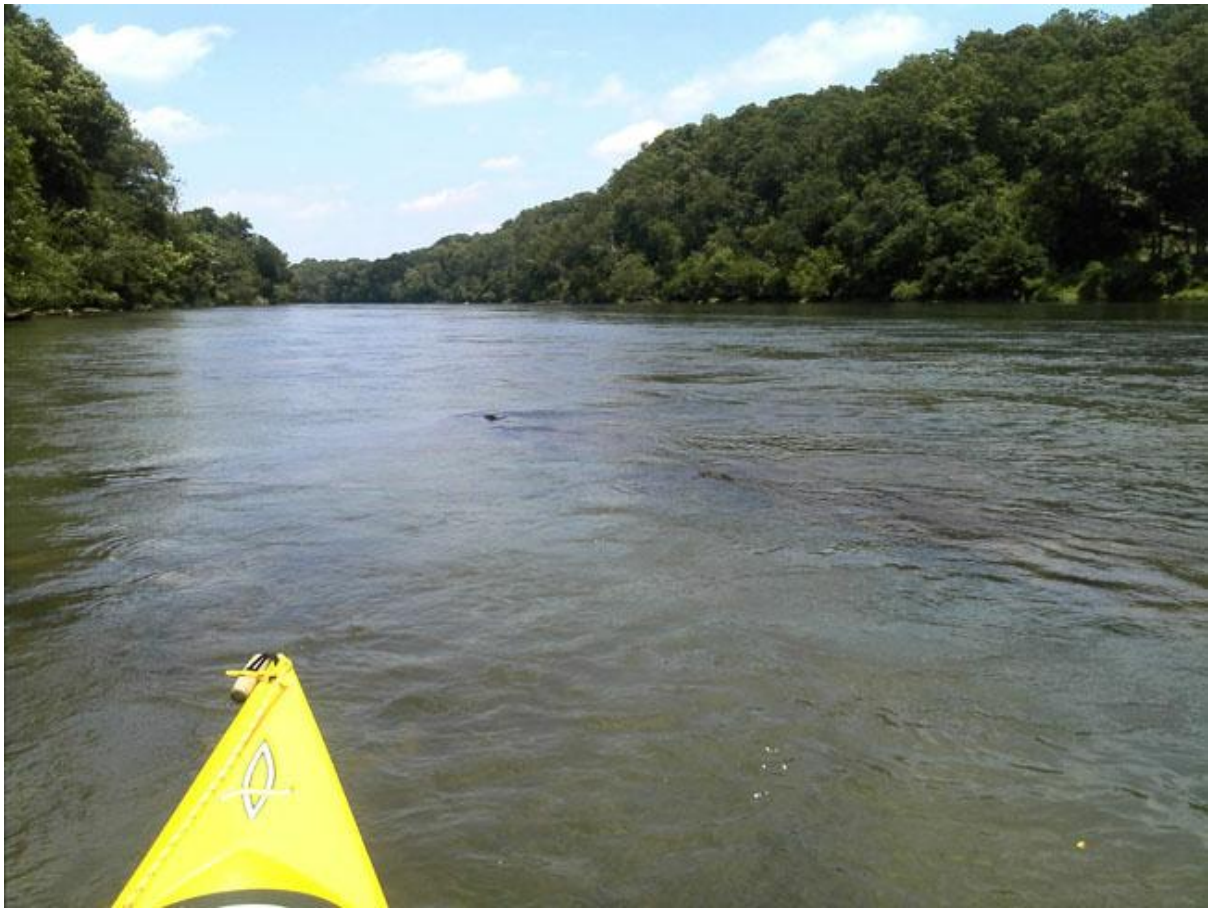

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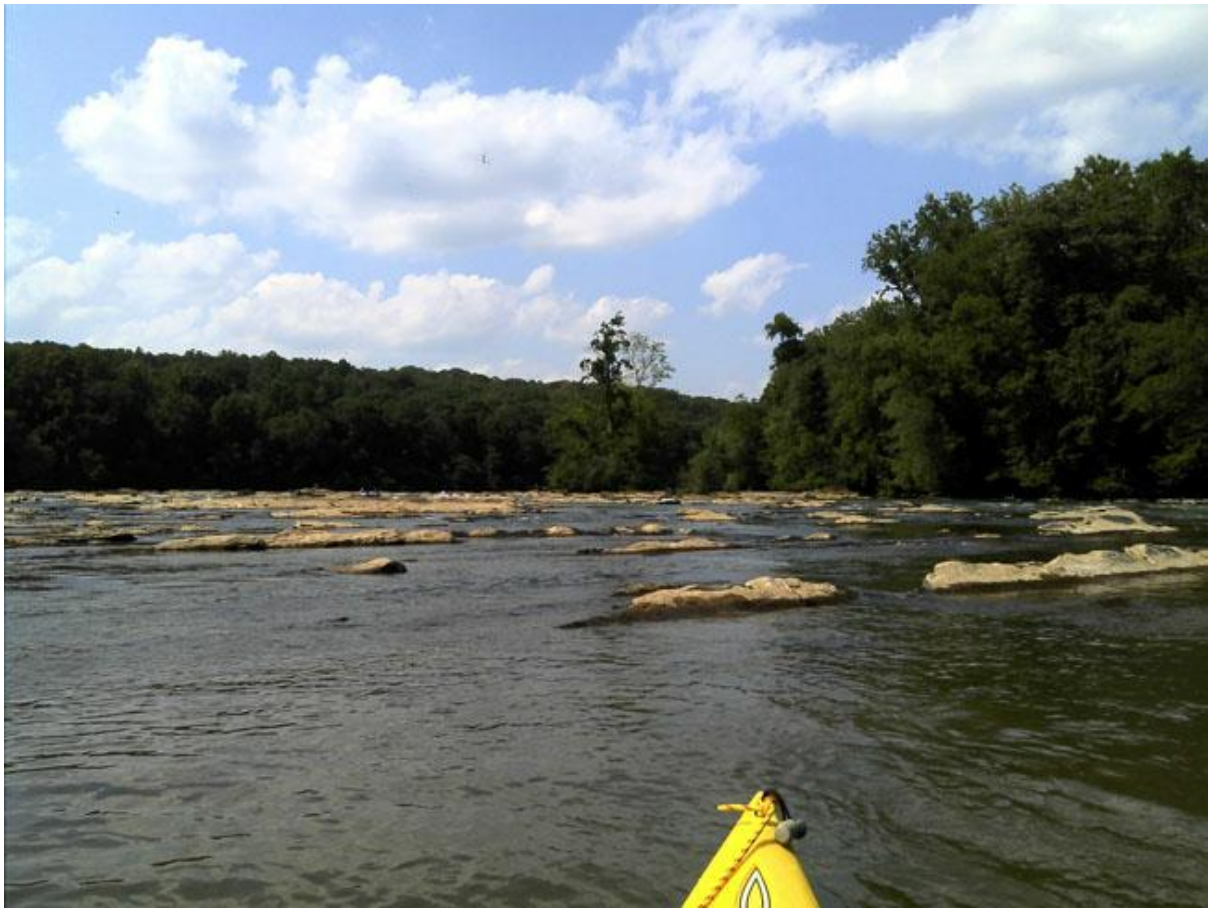

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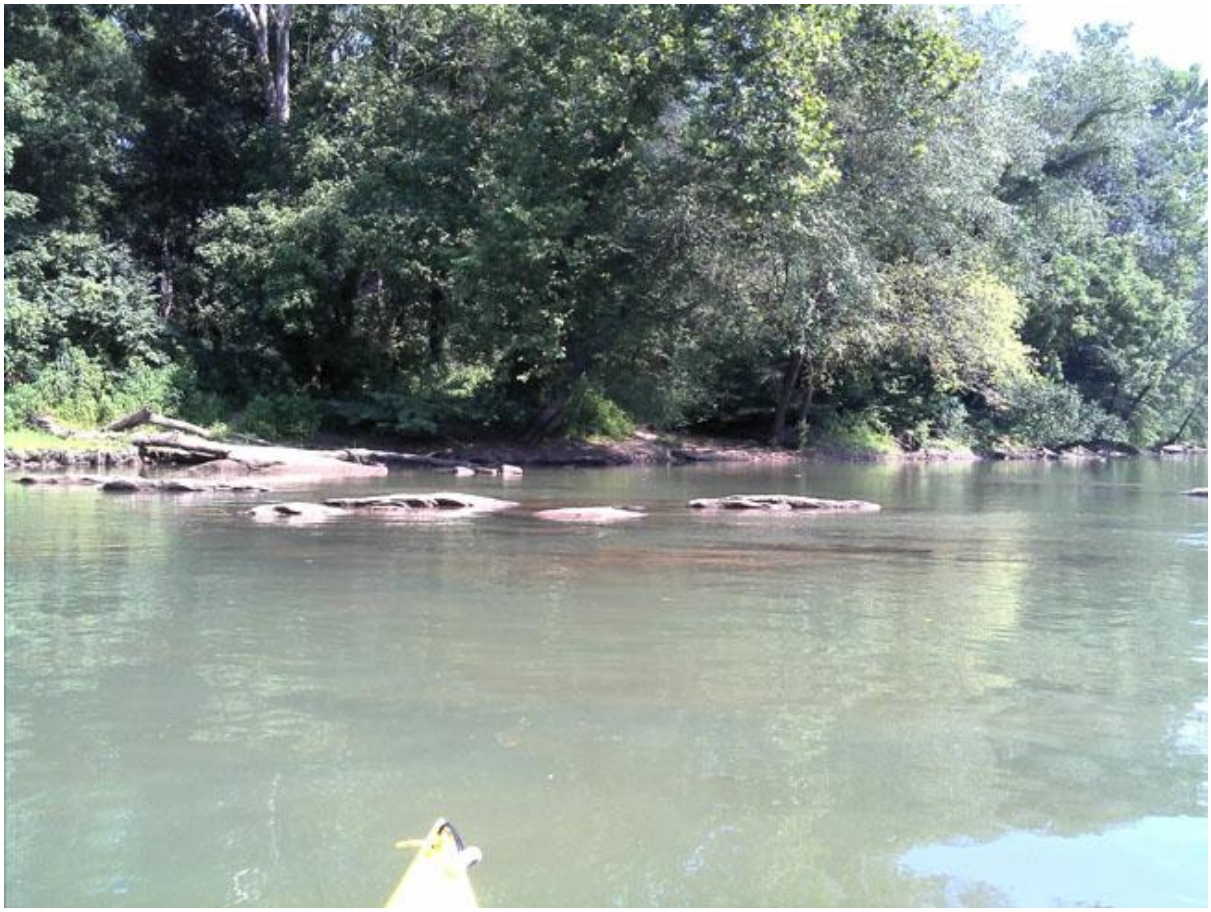

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Extracted from: (GeoCorps unpublished map).

Photograph DSC00231

Extracted from: (GeoCorps unpublished map).

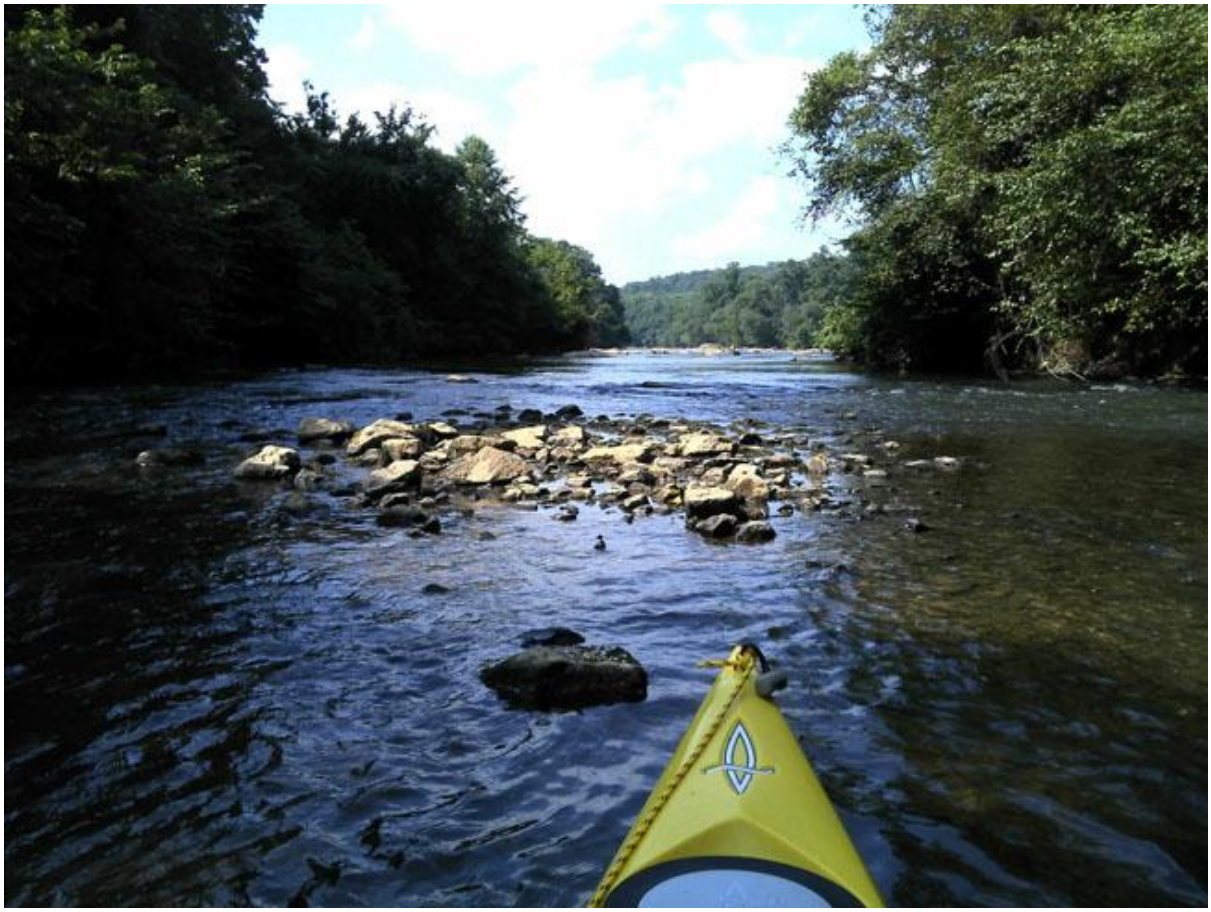
Photograph DSC00232

Extracted from: (GeoCorps unpublished map).

Photograph DSC00233

Extracted from: (GeoCorps unpublished map).

Photograph DSC00234



Extracted from: (GeoCorps unpublished map).

Photograph DSC00235

Extracted from: (GeoCorps unpublished map).

Photograph DSC00236

Extracted from: (GeoCorps unpublished map).

Photograph DSC00237

Extracted from: (GeoCorps unpublished map).

Photograph DSC00238

Extracted from: (GeoCorps unpublished map).

Photograph DSC00240

Extracted from: (GeoCorps unpublished map).

Photograph DSC00241

Extracted from: (GeoCorps unpublished map).

Photograph DSC00242

Extracted from: (GeoCorps unpublished map).

Photograph DSC00243

Extracted from: (GeoCorps unpublished map).

Photograph DSC00244

Extracted from: (GeoCorps unpublished map).

Photograph DSC00245

Extracted from: (GeoCorps unpublished map).

Photograph DSC00246

Extracted from: (GeoCorps unpublished map).

Photograph DSC00247

Extracted from: (GeoCorps unpublished map).

Photograph DSC00248

Extracted from: (GeoCorps unpublished map).

Photograph DSC00249

Extracted from: (GeoCorps unpublished map).

Photograph DSC00250

Extracted from: (GeoCorps unpublished map).

Photograph DSC00251

Extracted from: (GeoCorps unpublished map).

Photograph DSC00252

Extracted from: (GeoCorps unpublished map).

Photograph DSC00253

Extracted from: (GeoCorps unpublished map).

Photograph DSC00254

Extracted from: (GeoCorps unpublished map).

Photograph DSC00255

Extracted from: (GeoCorps unpublished map).

Photograph DSC00256

Extracted from: (GeoCorps unpublished map).

Photograph DSC00257

Extracted from: (GeoCorps unpublished map).

Photograph DSC00259

Extracted from: (GeoCorps unpublished map).

Photograph DSC00260

Extracted from: (GeoCorps unpublished map).

Photograph DSC00261

Extracted from: (GeoCorps unpublished map).

Photograph DSC00262

Extracted from: (GeoCorps unpublished map).

Photograph DSC00263

Extracted from: (GeoCorps unpublished map).

Photograph DSC00264

Extracted from: (GeoCorps unpublished map).

Photograph DSC00265

Extracted from: (GeoCorps unpublished map).

Photograph DSC00266

Extracted from: (GeoCorps unpublished map).

Photograph DSC00267

Extracted from: (GeoCorps unpublished map).

Photograph DSC00268

Extracted from: (GeoCorps unpublished map).

Photograph DSC00269

Extracted from: (GeoCorps unpublished map).

Photograph DSC00270

Extracted from: (GeoCorps unpublished map).

Photograph DSC00271

Extracted from: (GeoCorps unpublished map).

Photograph DSC00272

Extracted from: (GeoCorps unpublished map).

Photograph DSC00273

Extracted from: (GeoCorps unpublished map).

GeoCorps unpublished map

Hundley, Jeffrey Britton, 2014, Shoals Map of Chattahoochee River National Recreation Area, Georgia: GeoCorps of America, unpublished map, scale 1:24,000 (*GRI Source Map ID 76002*).

Data Collection Information

GPS Locations and georeferenced images (photographs) collected using a Garmin GPSmap 62stc. Map Datum/Spheroid: WGS 84

Water flow conditions, start and end points, and waypoints and photographs (images) taken are listed for each day of data collection.

Date: Sunday, 7/13/2014
Flow Conditions: USGS Gauge #02334653 reports ~630cfs
Start: Settles Bridge (mi 344)
End: Abbotts Bridge (mi 355)
Waypoints: 001 - 045
Images: DSC00001.jpg - DSC00051.jpg

Date: Monday, 7/14/2014
Flow Conditions: USGS Gauge #02334653 reports ~680cfs
Start: Abbots Bridge (mi 355)
End: Jones Bridge (mi 329)
Waypoints: 046 - 068
Images: DSC00052.jpg - DSC00076.jpg

Date: Tuesday, 7/15/2014
Flow Conditions: USGS Gauge #02335000 reports ~800cfs
Start: Jones Bridge Park (mi 329)
End: Island Ford (mi 320)
Waypoints: 069 - 125
Images: DSC00077.jpg - DSC00134.jpg

Date: Friday, 7/18/2014
Flow Conditions: USGS Gauge #02335450 reports ~890cfs
Start: Island Ford (mi 320)
End: Morgan Falls (mi 313)
Waypoints: 126 - 137
Images: DSC00135.jpg - DSC00147.jpg

Date: Tuesday, 7/22/2014
Flow Conditions: USGS Gauge #02334430 reports ~629cfs
Start: Buford Dam (mi 348)
End: Settles Bridge (mi 344)
Waypoints: 138 -172
Images: DSC00148.jpg - DSC00184.jpg

Date: Sunday, 7/27/2014
Flow Conditions: USGS Gauge #02335815 reports ~1060cfs
Start: Morgan Falls (mi 312)
End: Paces Mill (mi 304)

Waypoints: 173 - 234
Images: DSC00185.jpg - DSC00251.jpg

Date: Monday, 7/28/2014
Flow Conditions: USGS Gauge #02336000 reports ~1010cfs
Start: Paces Mill (mi 304)
End: Stamps Sand Company (mi 300)
Waypoints: 234 - 255
Images: DSC00252.jpg - DSC00273.jpg

Source Metadata Information

Image Locations (Geologic Observation Localities (CHSHGOL) in the GRI digital GIS data):

Summary

Locations of images taken of shoal hazards. Correlates with shoal locations in Waypoints.shp

Description

Point data representing the location of the camera or focal point at the time the image was taken. The symbology indicates the location of the camera with the circular point. The azimuthal direction the camera was facing (ie. upstream/downstream) is indicated by the line or tail coming off of the point.

Credits

Data collected by Jeffrey Britton Hundley, Jr. with assistance from Israel Blue Phillips.
Under the supervision of Bruice Heise and Paula Capece of the National Park Service.
Part of the Geological Society of America GeoCorps Program.

Use limitations

Exclusively for scientific research purposes.

Extent

West -84.460485
East -84.076551
North 34.158059
South 33.824872

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

Shallow Subsurface Hazard (Underwater Hazard Area Feature (CHSHUHA) in the GRI digital GIS data):

Summary

Polygonal representation of shallow hazard zones.

Description

Areas of shallow water hazards such as point bars or mid-channel bars. Including shallow sand or gravel bars. Not hard rock shoals, but an accumulation of sediments causing hazardous shallow areas.

Credits

Data collected by Jeffrey Britton Hundley, Jr. with assistance from Israel Blue Phillips.
Under the supervision of Bruice Heise and Paula Capece of the National Park Service.
Part of the Geological Society of America GeoCorps Program.

Use limitations

Data exclusively for scientific research purposes. Not to be used for navigation, depths to shoals may vary with flow conditions and location.

Extent

West -84.438590
East -84.101356
North 34.109535
South 33.919483

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

Shoal Area (Shoal Area Feature (CHSHSAF) in the GRI digital GIS data):

Summary

Polygonal representation of shoal locations or zones.

Description

Polygonal data of concentrated shoal areas derived from field notes supplimented by aerial photography and satellite imagery.

Credits

Data collected by Jeffrey Britton Hundley, Jr. with assistance from Israel Blue Phillips.
Under the supervision of Bruice Heise and Paula Capece of the National Park Service.
Part of the Geological Society of America GeoCorps Program.

Use limitations

Data exclusively for scientific research purposes. Not to be used for navigation, depths to shoals may vary with flow conditions and location.

Extent

West -84.461279
East -84.075634
North 34.159163
South 33.824568

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

Study Area (Map Boundary contacts in the Shoal Area Feature Boundaries (CHSHSAFA) in the GRI digital GIS data):

Summary

Rough outline of park boundaries around the Chattahoochee River from Buford Dam to Peachtree Creek. General study area.

Description

There is no description for this item.

Credits

Jeffrey Britton Hundley, Jr.

Use limitations

General extent of study area, not exact boundary of Chattahoochee National Park and Recreation Center.

Extent

West -84.503745
East -84.058619
North 34.170646
South 33.800829

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

Waypoints (Geologic Observation Localities (CHSHGOL) in the GRI digital GIS data):

Summary

Map of shoal locations on the Chattahoochee River within the National Park Service Chattahoochee National Park and Recreation Center. Explicitly for scientific research documenting present shoal locations.

Description

GPS location data of shoals, rapids, or underwater hazards within the bounds of the National Park Service Chattahoochee National Park and Recreation Center. This data encompasses 56 miles of the Chattahoochee River through the North Atlanta area from the Buford Dam at Lake Sidney Lanier in the north down to the input of Peachtree Creek to the south. The collection of this data was the target of an Geological Society of America GeoCorps Internship Program in colaboration with the National Park Service program "Geoscientists in the Parks" in the summer of 2014.

Credits

Data collected by Jeffrey Britton Hundley, Jr. with assistance from Israel Blue Phillips.
Under the supervision of Bruice Heise and Paula Capece of the National Park Service.
Part of the Geological Society of America GeoCorps Program.

Use limitations

Data exclusively for scientific research purposes. Not to be used for navigation, depths to shoals may vary with flow conditions and location.

Extent

West -84.460177
East -84.076117
North 34.157943
South 33.824895

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:500,000

GRI Digital Data Credits

This document was developed and completed by Georgia Hybels (Colorado State University) for the NPS Geologic Resources Division (GRD) Geologic Resources Inventory(GRI) Program. Quality control of this document by Stephanie O'Meara (Colorado State University).

The information in this document was compiled from the GRI source map, and intended to accompany the digital GIS map and other digital data for Chattahoochee River National Recreation Area, Georgia (CHAT) developed by Georgia Hybels and Stephanie O'Meara (Colorado State University) (see the GRI Digital Map and Source Map Citation section of this document for the source used by the GRI in the completion of this document and related GRI digital GIS map).

GRI finalization by Stephanie O'Meara(Colorado State University).

GRI program coordination and scoping provided by Bruce Heise and Tim Connors (NPS GRD, Lakewood, Colorado).