

To: Hanson, Joshua[joshua.hanson@sol.doi.gov]
From: Bilbao, Anita
Sent: 2017-08-31T13:23:34-04:00
Importance: Normal
Subject: Fwd: GSENM Requested Maps
Received: 2017-08-31T13:24:40-04:00
[GSENM List of Historic and Scientific Objects of Interest.xlsx](#)
[GSENM DOIMemo 11.06.1998.pdf](#)
[GSENM publications as of April 2016 Final.xlsx](#)

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----- Forwarded message -----

From: **Betenson, Matthew** <mbetenso@blm.gov>
Date: Wed, Aug 30, 2017 at 12:16 PM
Subject: Re: GSENM Requested Maps
To: Edwin Roberson <eroberso@blm.gov>
Cc: anita_bilbao@blm.gov, Brian Mueller <bmueller@blm.gov>, Cynthia Staszak <cstaszak@blm.gov>

Good morning Ed,

Attached is a set of documents to help with questions about Grand Staircase-Escalante National Monument's (GSENM) object list and research work. The Memorandum from the Secretary to the BLM (GSENM DOIMemo 11.06.1998) clearly identified the List of Historic and Scientific Objects of Interest and it is broken into Geologic, Prehistoric, Historic, and Biological categories. This Memo also contains the Bibliography of Sources Concerning Objects. We consider these lists definitive for the establishment of GSENM. We also attached a separate spreadsheet of GSENM List of Historic and Scientific Objects of Interests from the Memo for easier copying and sharing.

This monument is almost 21 years old at this point, on-going research has provided additional information about some of objects, and resources contained within GSENM. Currently we have 604 entries of specific research at GSENM (GSENM publications as of April 2016 Final).

We are working on an updated/highlights list reflecting more the research and results that has occurred on GSENM objects. I expect to be able to send that early this afternoon.

Please let me know if you have any questions or need more information.

On Tue, Aug 29, 2017 at 5:04 PM, Betenson, Matthew <mbetenso@blm.gov> wrote:

Good afternoon Ed,

To answer that question about the Paleo data, this map depicts the correct site potential information. It is from May, and I believe Brian and Paul (GSENM GIS) discussed the data for it in March.

The map was part of the initial data request on the Google Drive:

https://drive.google.com/drive/folders/0B_thpQJXu6O-SEtVLTc2NVMtVm8

We'll have the other information ready for you tomorrow.

On Tue, Aug 29, 2017 at 8:47 AM, Edwin Roberson <eroberso@blm.gov> wrote:

Matt, I wanted to share the maps i sent back to D.C. As my note indicates, We will be overlaying the data themes on one map. Ed

Sent from my iPhone

Begin forwarded message:

From: "Roberson, Edwin" <eroberso@blm.gov>

Subject: Fwd: GSENM Requested Maps

Here are maps with some of the individual data layers you were looking for. The first is Wilderness Study Areas. The second is Lands with Wilderness Character. There is still some project related LWC inventory work being done in the southwest portion of the monument so it will change. The last two maps show oil and gas and coal leases at the time the monument was established. We are will get mineral potential information tomorrow. The last map shows polygons depicting the landscape features/objects listed in the proclamation. Here are the objects/features.

Paleo Objects

Circle Cliffs petrified wood
Dakota Formation Late Cretaceous Fossils
Tropic Shale Formation Late Cretaceous Fossils
Wahweap Formation Late Cretaceous Fossils

Tibbet Canyon, Smoky Hollow and John Henry members of the Straight Cliffs Formation Late Cretaceous Fossils

Kaiparowits formation Late Cretaceous Terrestrial Fossils

Landscape Features

The Grand Staircase
Upper Paria Canyon system
White Cliffs
Vermilion Cliffs
East Kaibab Monocline (Cockscomb)

Historic Objects

Old Paria townsite
Hole in the Rock Tra
Dance Hall Rock

Burning Hills

Wahweap formation Late Cretaceous Terrestrial Fossils Kaiparowits Plateau
Circle Cliffs
Waterpocket Fold
Escalante Natural Bridge
Grosvenor Arch
Upper Escalante Canyons
No Mans Mesa relic grasslands

When we get the mineral info we can produce a map with all four layers you requested. ed

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Ed Roberson,
Utah BLM State Director
Office Phone: 801-539-4010
Cell Phone: 801-641-3846
Website: <https://www.blm.gov/utah>

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Matt Betenson
Associate Monument Manager

Grand Staircase-Escalante National Monument
669 South HWY 89A, Kanab, UT 84741
435-644-1205 435-644-1250 fax

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Matt Betenson
Associate Monument Manager

Grand Staircase-Escalante National Monument
669 South HWY 89A, Kanab, UT 84741
435-644-1205 435-644-1250 fax

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Anita Bilbao
Associate State Director
Bureau of Land Management - Utah
801-539-4010 (o)
385-315-1211 (c)
<https://www.blm.gov/utah>

DOI-2021-03 01090

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17[illegible]

List of Historic and Scientific Objects of Interest
GSDNM-30-17[illegible]

DOI-2021-03 01093

[illegible]

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17

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List of Historic and Scientific Objects of Interest
GSDNM 8-30-17

DOI-2021-03 01095

List of Historic and Scientific Objects of Interest
GSDNM 8-30-17[illegible]

DOI-2021-03 01097

[illegible]

DOI-2021-03 01099

[illegible]