

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](#)

2 of 3

----- 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,
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List of Historic and Scientific Objects of Interest
GSENM 8-30-17

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

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

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

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

Publication Category/Proceedings Title	Journal/Book/Proceedings Title	Author	Year	Publication Date	Open Access
Mathematics	Journal of Mathematical Analysis and Applications	J. Doe, A. Smith	2023	2023-01-15	Yes
	Mathematics	J. Doe, A. Smith	2023	2023-01-15	Yes
	Mathematics	J. Doe, A. Smith	2023	2023-01-15	Yes
Physics	Journal of Physics: Conference Series	J. Doe, A. Smith	2023	2023-01-15	Yes
	Physics	J. Doe, A. Smith	2023	2023-01-15	Yes
	Physics	J. Doe, A. Smith	2023	2023-01-15	Yes
Chemistry	Journal of Chemical Education	J. Doe, A. Smith	2023	2023-01-15	Yes
	Chemistry	J. Doe, A. Smith	2023	2023-01-15	Yes
	Chemistry	J. Doe, A. Smith	2023	2023-01-15	Yes
Biology	Journal of Biological Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Biology	J. Doe, A. Smith	2023	2023-01-15	Yes
	Biology	J. Doe, A. Smith	2023	2023-01-15	Yes
Earth and Planetary Sciences	Journal of Earth System Science	J. Doe, A. Smith	2023	2023-01-15	Yes
	Earth and Planetary Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Earth and Planetary Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
Astronomy and Space Sciences	Journal of Space Research	J. Doe, A. Smith	2023	2023-01-15	Yes
	Astronomy and Space Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Astronomy and Space Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
Environmental Sciences	Journal of Environmental Science and Technology	J. Doe, A. Smith	2023	2023-01-15	Yes
	Environmental Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Environmental Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
Social Sciences	Journal of Social Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Social Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Social Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
Health Sciences	Journal of Health Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Health Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
	Health Sciences	J. Doe, A. Smith	2023	2023-01-15	Yes
Engineering	Journal of Engineering	J. Doe, A. Smith	2023	2023-01-15	Yes
	Engineering	J. Doe, A. Smith	2023	2023-01-15	Yes
	Engineering	J. Doe, A. Smith	2023	2023-01-15	Yes
Computer Science	Journal of Computer Science	J. Doe, A. Smith	2023	2023-01-15	Yes
	Computer Science	J. Doe, A. Smith	2023	2023-01-15	Yes
	Computer Science	J. Doe, A. Smith	2023	2023-01-15	Yes
Interdisciplinary	Journal of Interdisciplinary Science	J. Doe, A. Smith	2023	2023-01-15	Yes
	Interdisciplinary	J. Doe, A. Smith	2023	2023-01-15	Yes
	Interdisciplinary	J. Doe, A. Smith	2023	2023-01-15	Yes

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