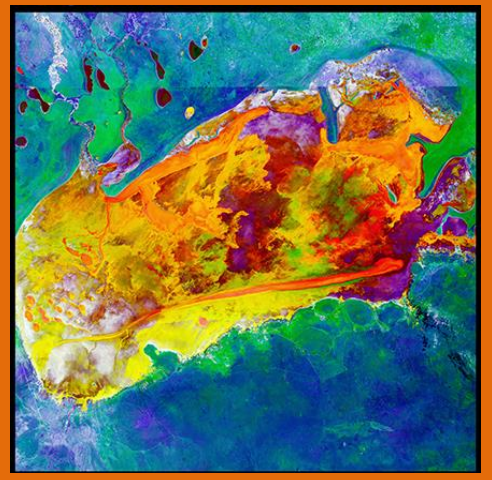
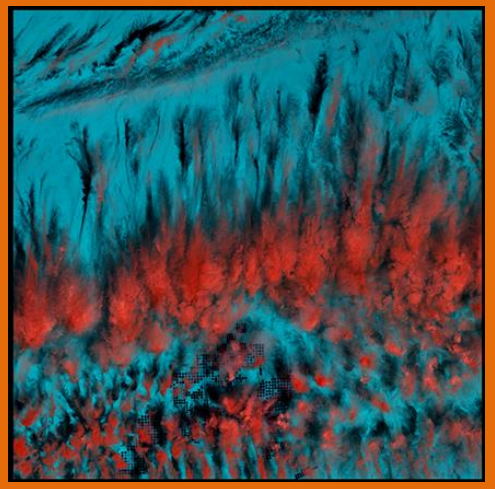
Princeton University LIBRARY

Using Government Art Sources for Chemistry, Geosciences, and Environmental Studies Library Research
February 25, 2021

Emily C. Wild, Chemistry, Geosciences and Environmental Studies Librarian
ewild@princeton.edu 609-258-5484

PRINCETON UNIVERSITY

Past GPO FDLP webinars

Since 1884, Princeton University has participated in the Federal Depository Library Program (FDLP)

https://libguides.princeton.edu/geo/librarianwebinars

Past Chemistry, Geosciences, and Environmental Studies webinars, Princeton University

January 2021 : From the Rocks to the Stocks - Library Research with a Geosciences Librarian and a Finance Librarian https://www.fdlp.gov/from-the-rocks-to-the-stocks-library-research-with-a-geosciences-librarian-and-a-finance-librarian

October 2020 : Library Research for Natural Hazard Events: Earthquakes, Hurricanes, Volcanoes, and Wildfires: https://www.fdlp.gov/library-research-for-natural-hazard-events-earthquakes-hurricanes-volcanoes-and-wildfires

September 2020 : Pharmaceutical Research Sources Available for COVID-19 https://www.fdlp.gov/pharmaceutical-research-sources-available-for-covid-19

August 2020: Library Research for Energy, Minerals, and Uranium Resources https://www.fdlp.gov/library-research-for-energy-mineral-and-uranium-resources

July 2020 : Library Research for Atmospheric and Oceanic Sciences (Including Climate Change) https://www.fdlp.gov/library-research-for-atmospheric-and-oceanic-sciences-including-climate-change

March 2020: Library Research for Water Resources https://www.fdlp.gov/library-research-for-water-resources

January 2020: Introduction to Geosciences Library Research https://www.fdlp.gov/introduction-to-geosciences-library-research

Past webinars, U.S. Geological Survey (USGS)

USGS Library Materials for Natural Hazards https://www.fdlp.gov/usgs-library-materials-for-natural-hazards

USGS Library Materials for Water Resources Information https://www.fdlp.gov/usgs-library-materials-for-water-resources-information

USGS Library Materials for Earth's Age https://www.fdlp.gov/usgs-library-materials-for-earth-s-age

USGS Library: Indexes, catalogs, and other bibliographic tools, a day in the life of a reference librarian https://www.fdlp.gov/usgs-library-indexes-catalogs-and-other-bibliographic-tools-a-day-in-the-life-of-a-reference-librarian

USGS Library: Oil, Gas, Coal, Uranium, and Minerals Maps and Data https://www.fdlp.gov/usgs-library-oil-gas-coal-uranium-and-minerals-maps-and-data

USGS Library: Using USGS Image, Map, and Data Products for Information Inquiries https://www.fdlp.gov/usgs-library-using-usgs-image-map-and-data-products-for-information-inquiries

Quick Bio

Emily C. Wild

Lewis Science Library, Princeton University

ewild@princeton.edu

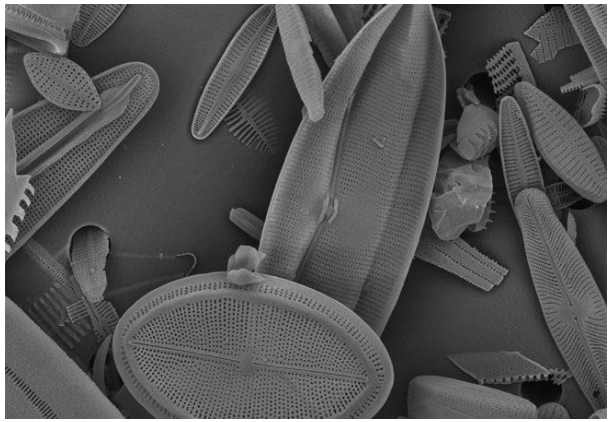
Schedule a Research Consultation :
Monday – Friday
Meet Our Specialists – Emily Wild

"Princeton in the nation's service and the service of humanity"

Princeton University Library, 2018-Present
Chemistry, Geosciences and Environmental Studies Librarian
https://library.princeton.edu/staff/ewild

U.S. Geological Survey: https://www.usgs.gov/staff-profiles/emily-wild
- **Denver, Colorado : 2008-2018 - Librarian (Physical Scientist)**
- **NH-VT & MA-RI: 1996-2008 – Hydrologist**

Master of Library and Information Studies (MLIS), Univ. of Rhode Island
Bachelor of Arts (Geology), Hartwick College, Oneonta, New York

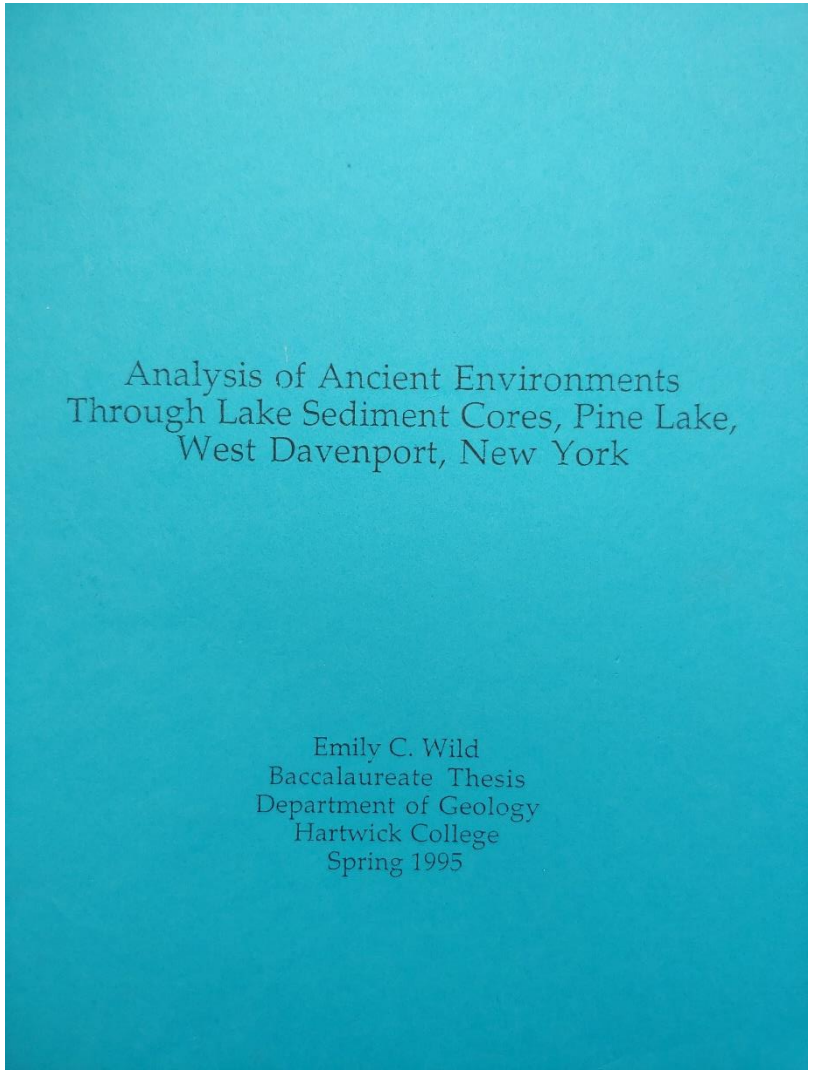


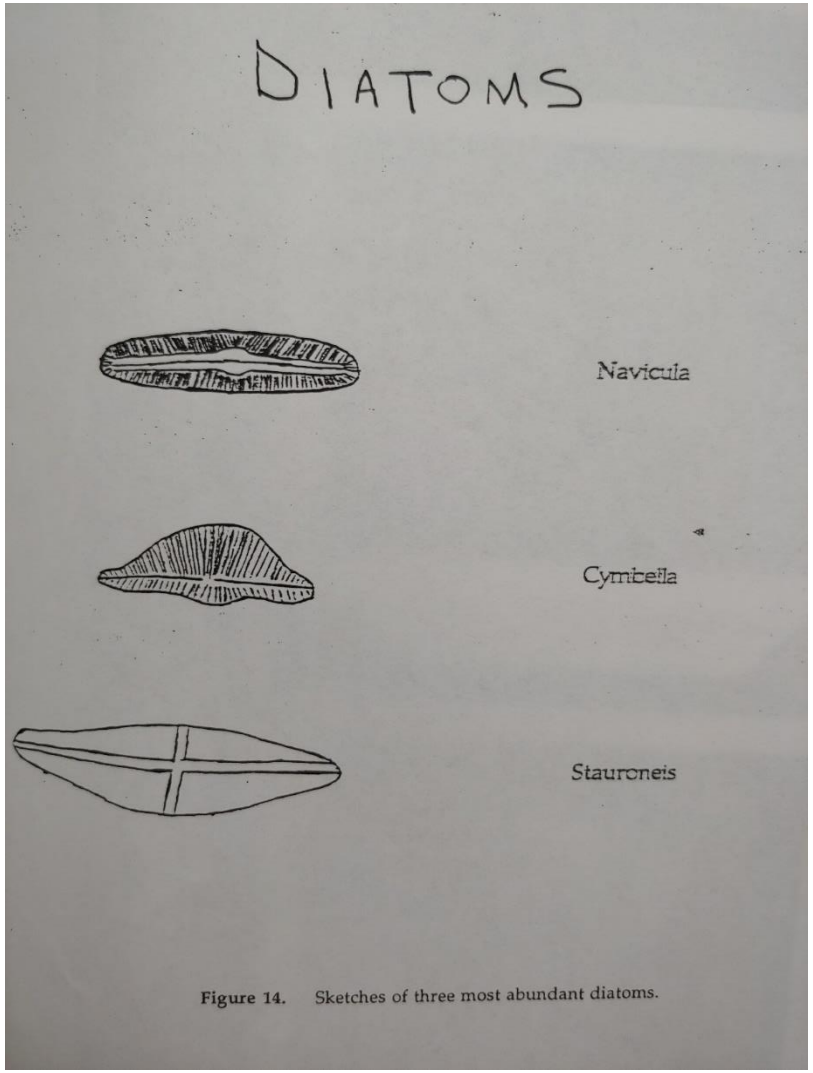
https://diatoms.org/what-are-diatoms

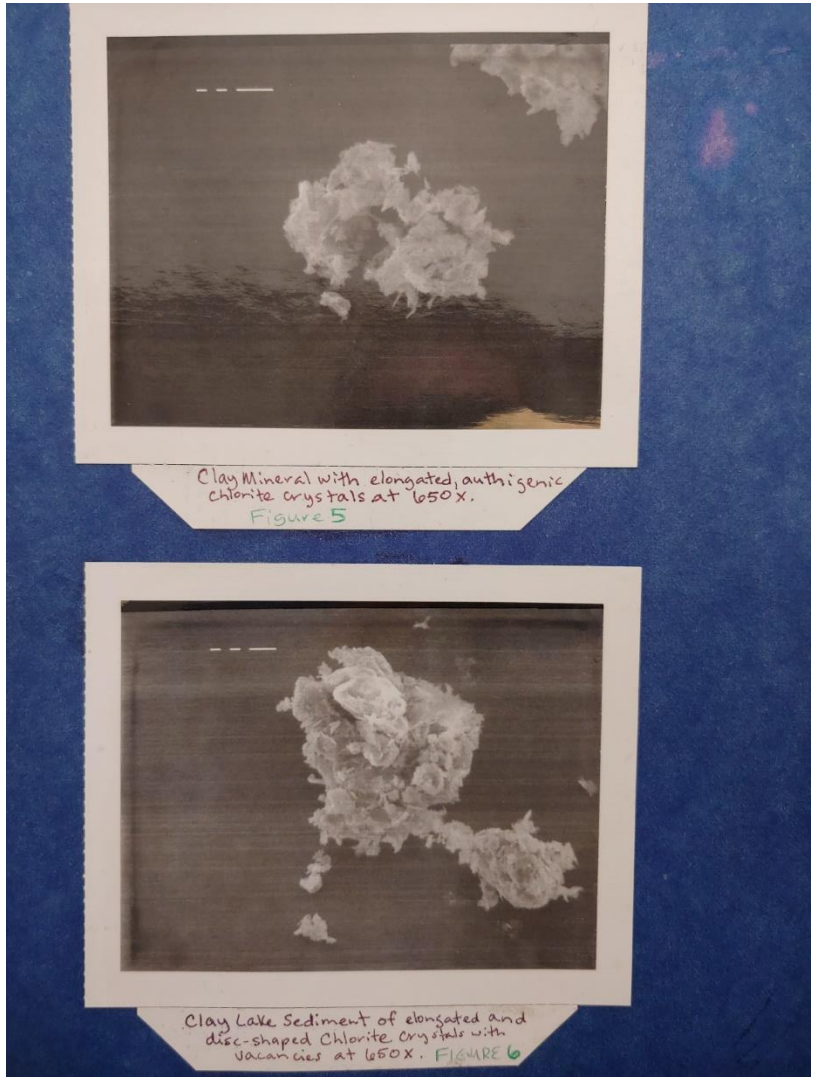
https://www.hartwick.edu/campus-life/arts-culture/yager-museum/exhibits/arctic-re-visions-voyages-greenland-1869-2012/

Senior Thesis

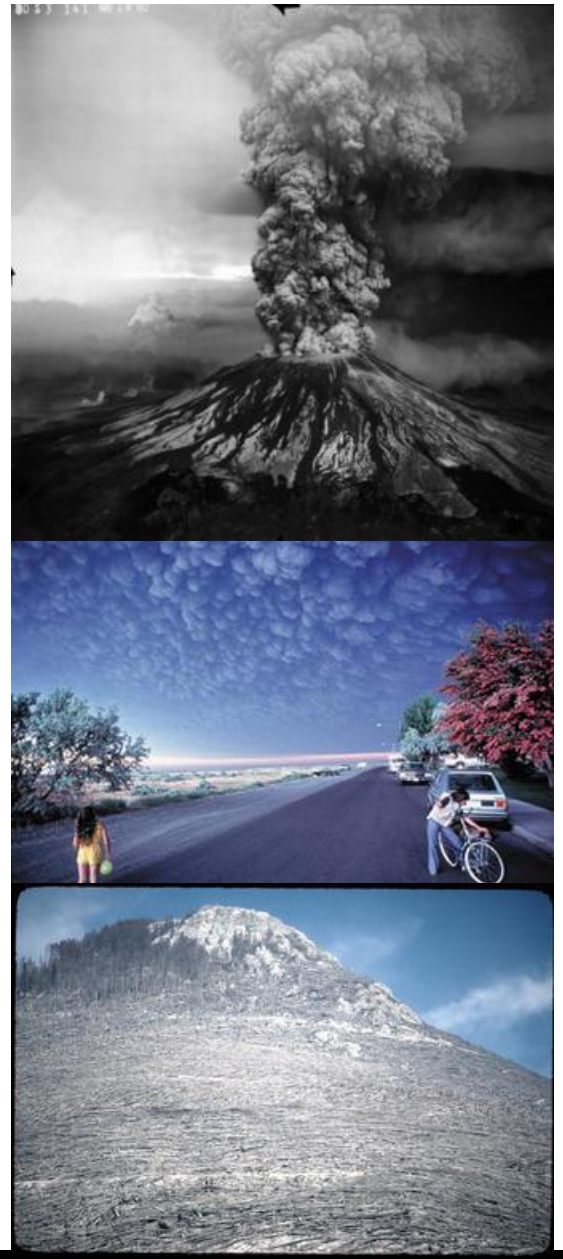
"Analysis of Ancient Environments through Lake Sediment Cores, Pine Lake, West Davenport, New York"





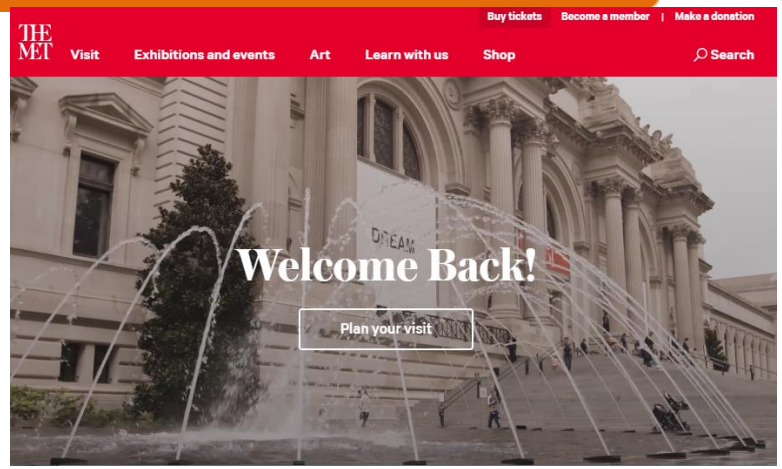


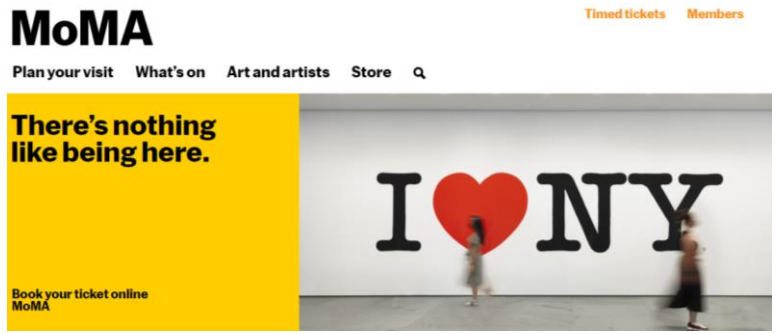
Outline



- Why Art Museums and Art Collections?
- U.S. Geological Survey (USGS) Publications & Collections
- Department of the Interior Collections
- Princeton University Museum Collections & Exhibits
- Library of Congress Collections & Preservation
- Smithsonian Collections
- Chemistry in the Movies

Museums





Learning Styles

Visual Learners. Students who best internalize and synthesize information when it is presented to them in a graphic depiction of meaningful symbols are described as visual learners

Auditory Learners

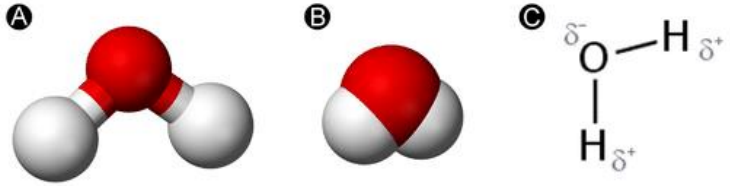
Reading/Writing Learners

Kinesthetic & Tactile Learners

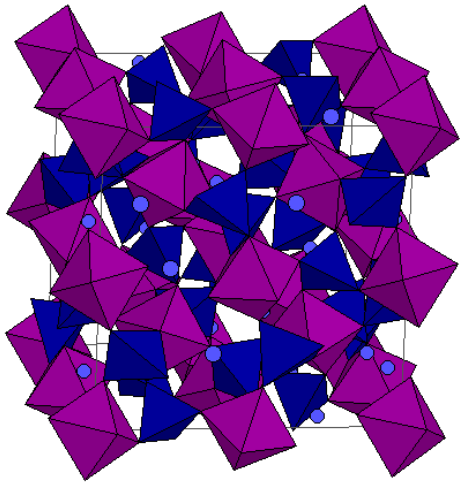
https://www.metmuseum.org/

https://www.moma.org/

https://www.albrightknox.org/



Water



Garnet

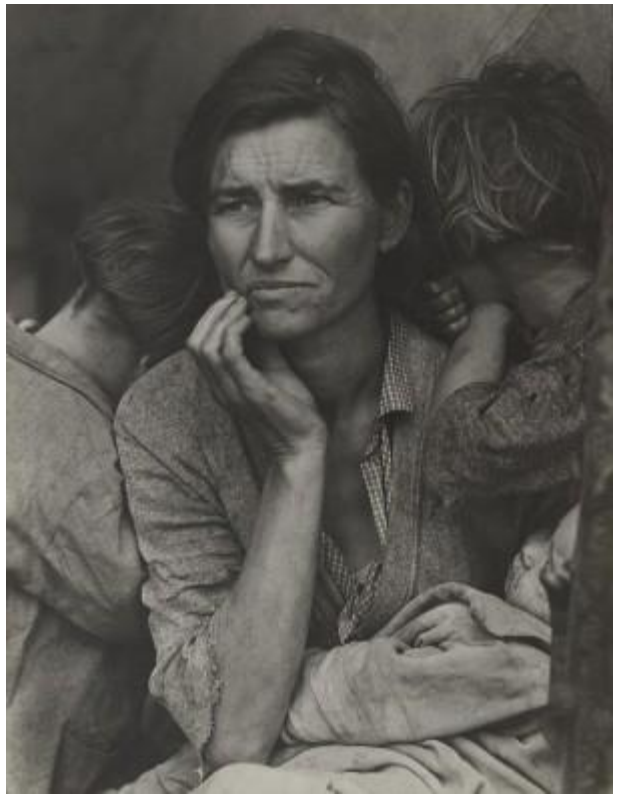
MoMA

https://www.moma.org/learn/moma_learning/artists/

https://www.moma.org/learn/moma_learning/themes/photography/

https://www.moma.org/learn/moma_learning/themes/expressionism/expressionism-and-nature/

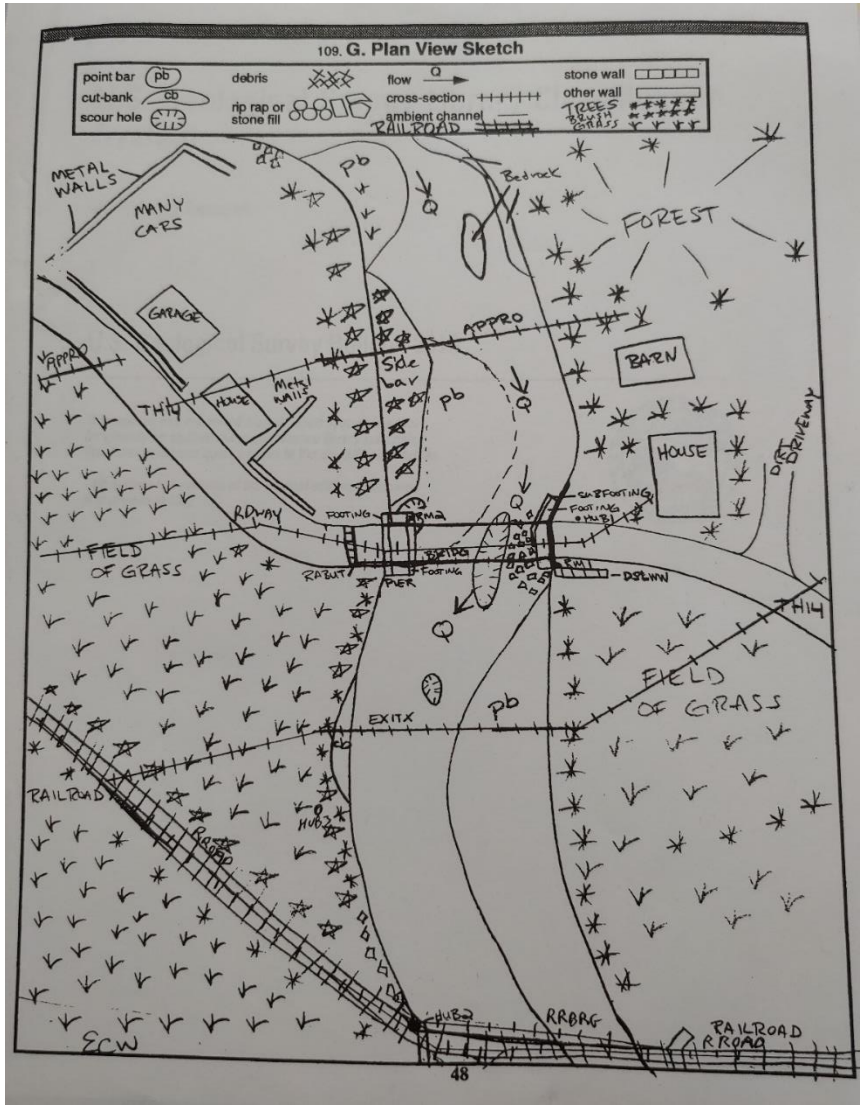
https://www.moma.org/learn/moma_learning/vincent-van-gogh-the-starry-night-1889/



https://www.moma.org/learn/moma_learning/dorothea-lange-migrant-mother-nipomo-california-1936/

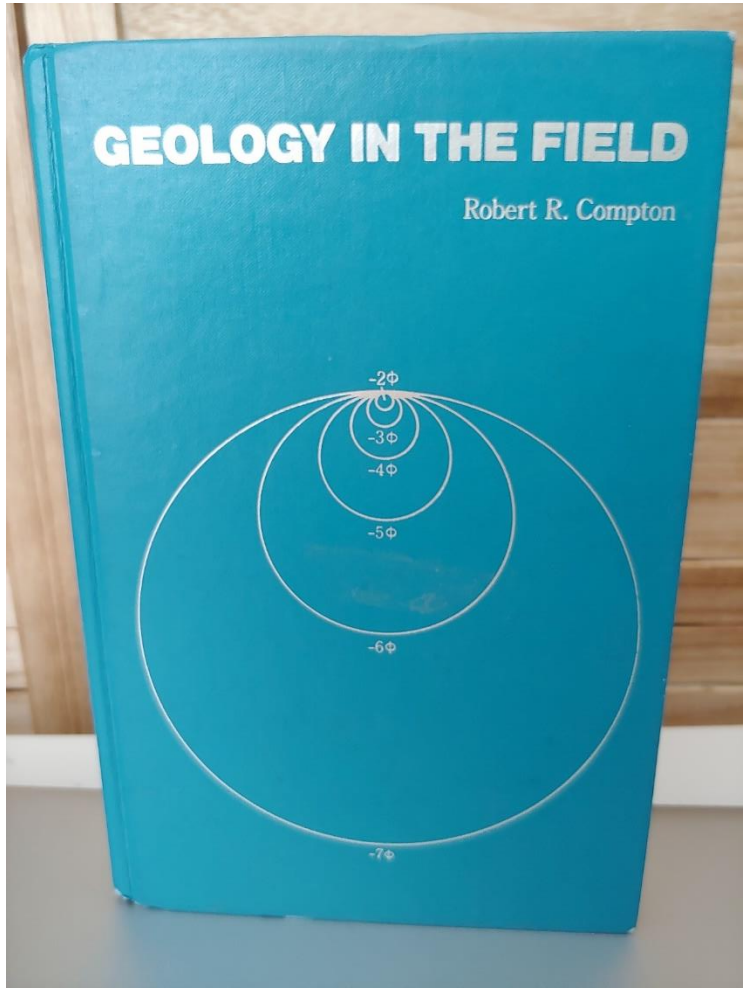
https://www.moma.org/learn/moma_learning/ernst-ludwig-kirchner-winter-moonlit-night-wintermondnacht-1919-in-fall-1918/

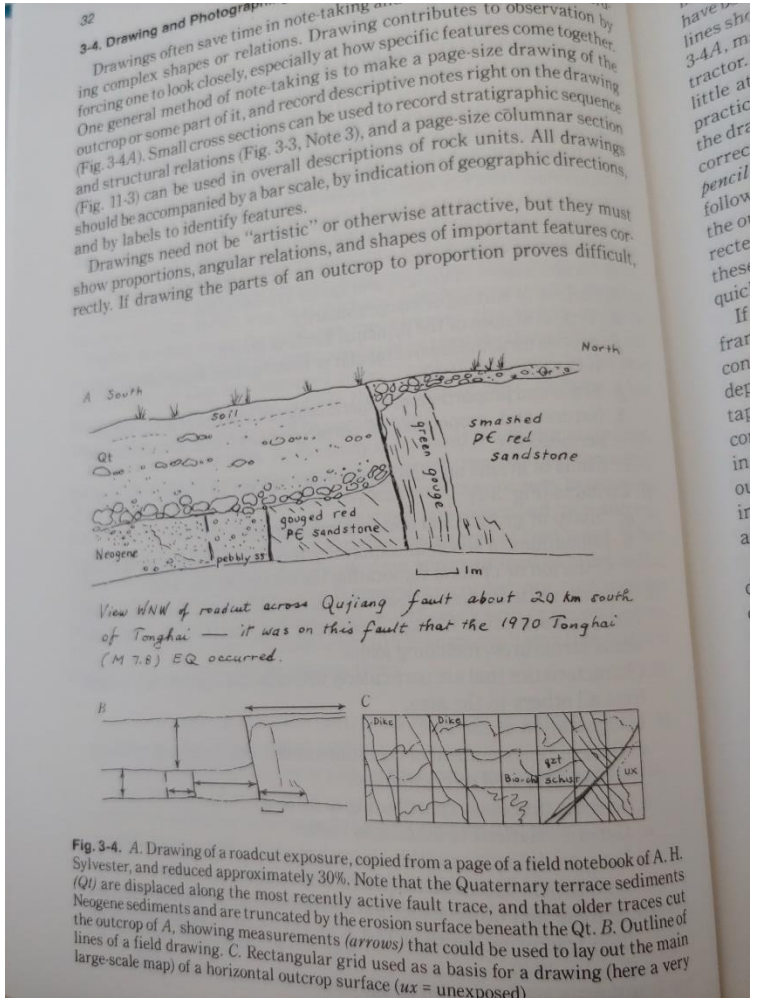
Geology/Hydrology Field Notes



USGS Field Work Example
https://www.usgs.gov/staff-profiles/emily-wild

Geology in the Field
https://catalog.princeton.edu/catalog/305774





Geology/Hydrology & Art

Journal of Geoscience Education
https://catalog.princeton.edu/catalog/9787746

JOURNAL OF GEOSCIENCE EDUCATION **63**, 233–249 (2015)

Strategies and Perceptions of Students' Field Note-Taking Skills: Insights From a Geothermal Field Lesson

Jacqueline Dohaney,[1,2,a] Erik Brogt,[2,3] and Ben Kennedy[1,2]

ABSTRACT

Field note-taking skills are fundamental in the geosciences but are rarely explicitly taught. In a mixed-method study of an introductory geothermal field lesson, we characterize the content and perceptions of students' note-taking skills to derive the strategies that students use in the field. We collected several data sets: observations of the field lesson, hard-copy notebooks ($n = 42$), and interview data ($n = 16$). Our analysis of the notebooks revealed note-taking strategies on two dimensions, consistent with earlier findings in the literature: students' ability to write in their own words (uniqueness; *U*), and the amount of necessary information recorded (completeness; *C*). We propose several factors that influenced the students' notes: lecturer differences, previous field experience, and gender. Two different lecturers (1 and 2) taught the lesson on two different days. The note-taking task covered similar content but was not scripted, resulting in lecturer differences. Lecturer 1 included rich peripheral information, and the other reiterated the need "to think for yourself" and "focus on observations" (resulting in higher *U* scores for lecturer 2's students). We also found that students with "high" previous field experience had higher *U* scores. Interview data corroborated this finding, indicating that field experience helped students to "know what to look for." Lastly, female students generally achieved higher *C* scores than male students. Females used more words (verbosity), and this likely led to higher values achieved. To improve note-taking skills, we suggest breaking down complex field lessons into simple, manageable parts to manage students' cognitive load. © *2015 National Association of Geoscience Teachers*. [DOI: 10.5408/13-026.1]

Key words: field teaching, note-taking, geothermal geology, cognitive load theory, student perceptions

Exploring the Interrelationships of Art and Geology through a Course Module on European Ice Age Cave Art

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Jane Rhoades Hudak — Department of Art, Georgia Southern University, Statesboro, GA 30460-8032, jhudak@georgiasouthern.edu

Figure 1. *Young Ladies from the Village* (1859) by Gustave Courbet. Oil on canvas. (195 x 261 cm.) This realistic landscape depicts an area in the Jura Mountains of France where Courbet grew up. The limestone outcrops in the background are the type locality for the Jurassic period. The Metropolitan Museum of Art, Gift of Harry Payne Bingham, 1940. (40.175).

Figure 2. *The Mountain* (1937) by Balthus. Oil on canvas. (249 x 366 cm.) This modern depiction of the Jura Mountains is considered to be Balthus's answer to Courbet's painting in Figure 1. The Metropolitan Museum of Art, Purchase, Gifts of Mr. and Mrs. Nate B. Spingold and Nathan Cummings, Rogers Fund and The Alfred N. Punnett Endowment Fund, by exchange, and Harris Dick Fund, 1982. (1982.530).

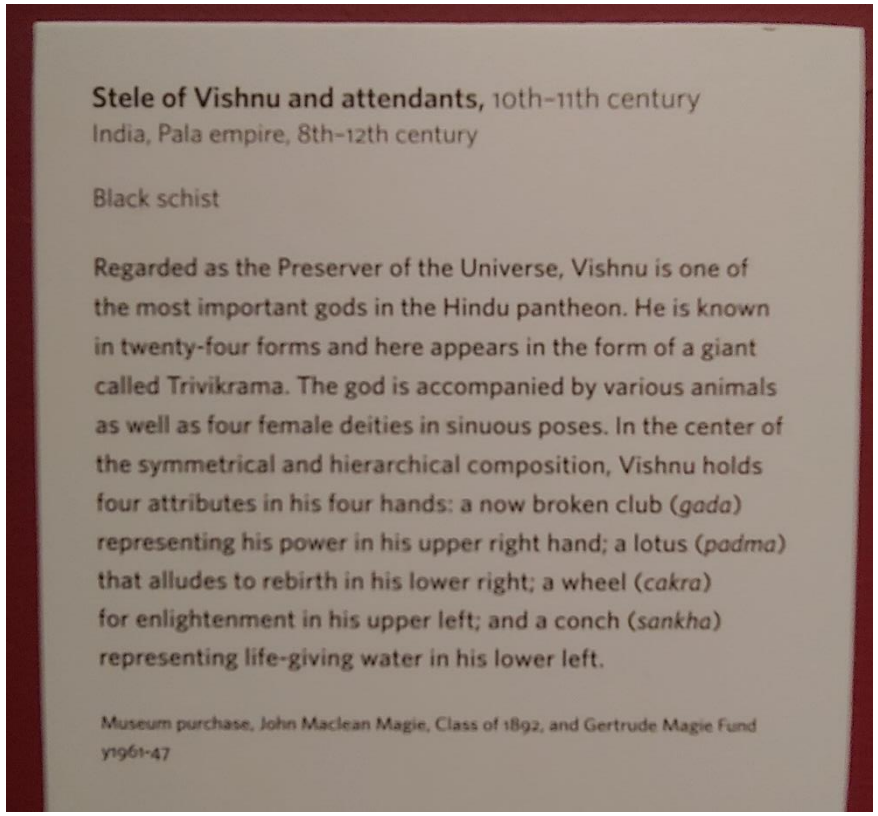
class in illustration. Rock classification is developed by constructing a "nonsite," loosely in the sense of Robert Smithson. Rock specimens are placed into wooden containers according to type, that is, igneous, metamorphic, or sedimentary, and analogies are drawn with Smithson's *A Nonsite, Franklin, New Jersey, 1968*, which focused on the famous Franklin mineral locality. Smithson himself had a personal connection to minerals in that he was a descendant of Charles Smithson, the discoverer of the mineral smithsonite (zinc carbonate) and an important figure in the founding of the Smithsonian Institution (Hobbs, 1981).

Topographic maps are studied by making three-dimensional renderings of Christo's projects in Colorado, *Valley Curtain* (1972) (Vaizey, 1990) and *Over the River* (in preparation). The students construct cross sections from topographic maps covering Christo's areas, and then make three-dimensional renderings of the landscape. Christo and his collaborator Jeanne-Claude described their new Colorado project at RMCAD in the Spring of 1998, greatly bolstering student interest in landforms. More ambitious projects can be carried out in conjunction with other art classes. One RMCAD exercise that provides a model for this type of project was the creation of a ceramic sculpture depicting the Bryce Canyon National Park landscape (Figure 3).

Field Trips

Field trips may be the easiest venue for combining art and geology. Just as the Impressionists did a century ago, we take our sketchbooks, paints, pastels, and pencils to the field. We travel to Red Rocks Park, the site of a spectacular, tilted red sandstone formation in the foothills of the Rocky Mountains near Denver. As I explain the succession of events leading to the formation of the Rocky Mountains, the students sketch the site knowing that these illustrations will be part of their field-trip report. A second field trip takes us to the National Center for Atmospheric Research (NCAR) in Boulder, Colorado to view exhibits illustrative of global-climate-change topics. NCAR is housed in a building designed by the well known architect I.M. Pei. Pei was inspired by Native American dwellings that he had seen in southwestern Colorado at Mesa Verde, and he tried to design the NCAR building so that it would integrate with the flatiron sandstone landscape. Special care was taken in choosing the color and texture of the concrete facing of the building so that it would match the red sandstone backdrop. Here

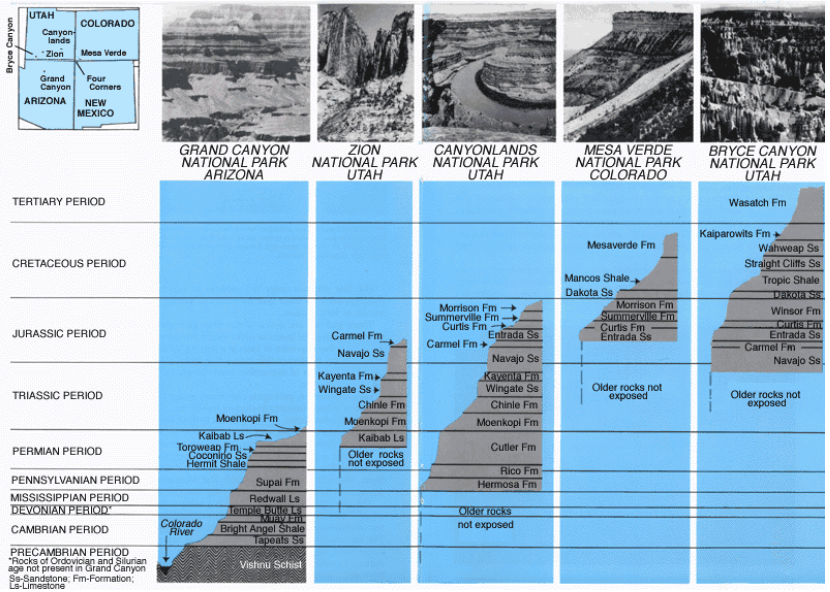
Vishnu Schist



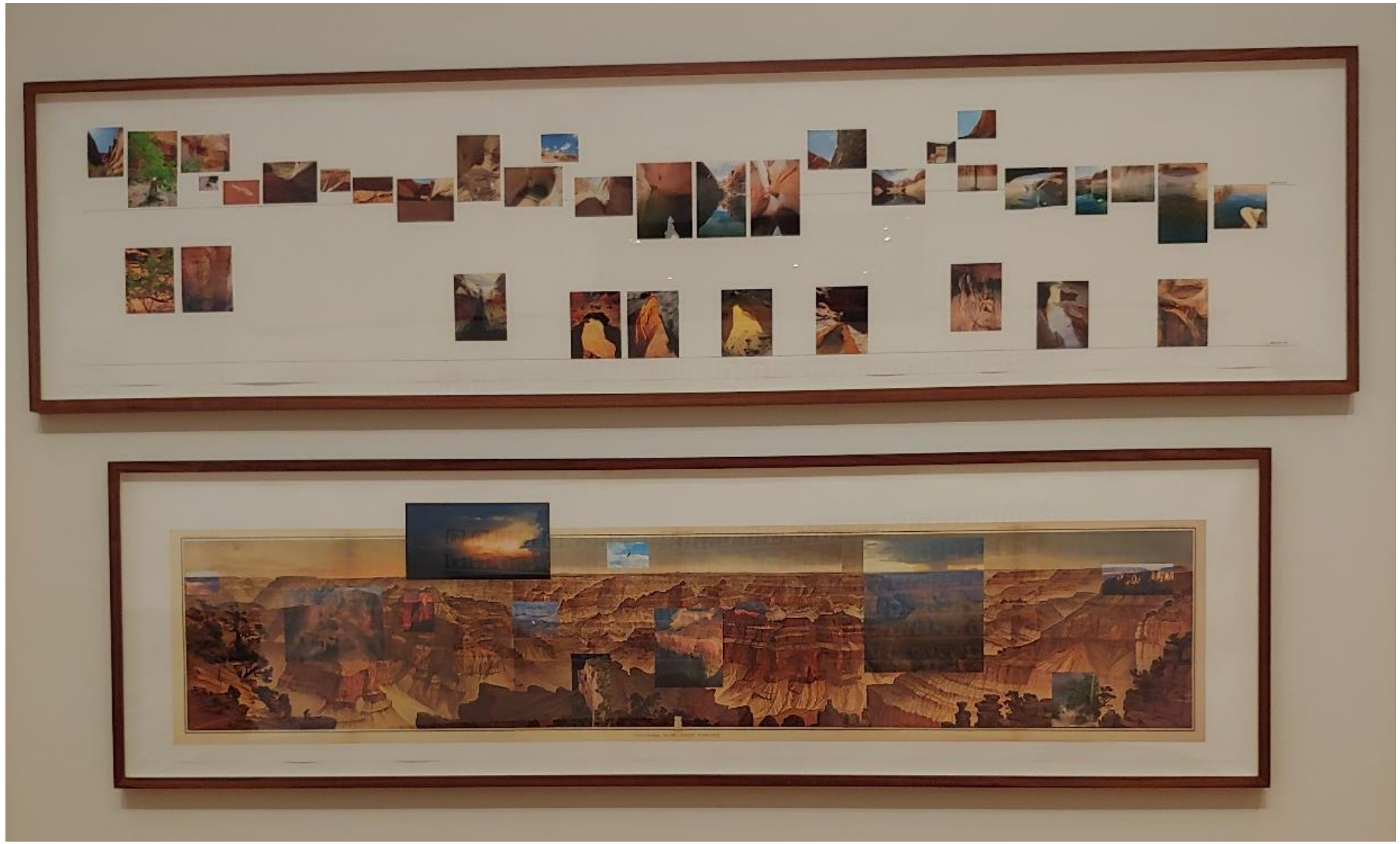
https://artmuseum.princeton.edu/collections/objects/28869

Vishnu made of Schist

Vishnu Schist

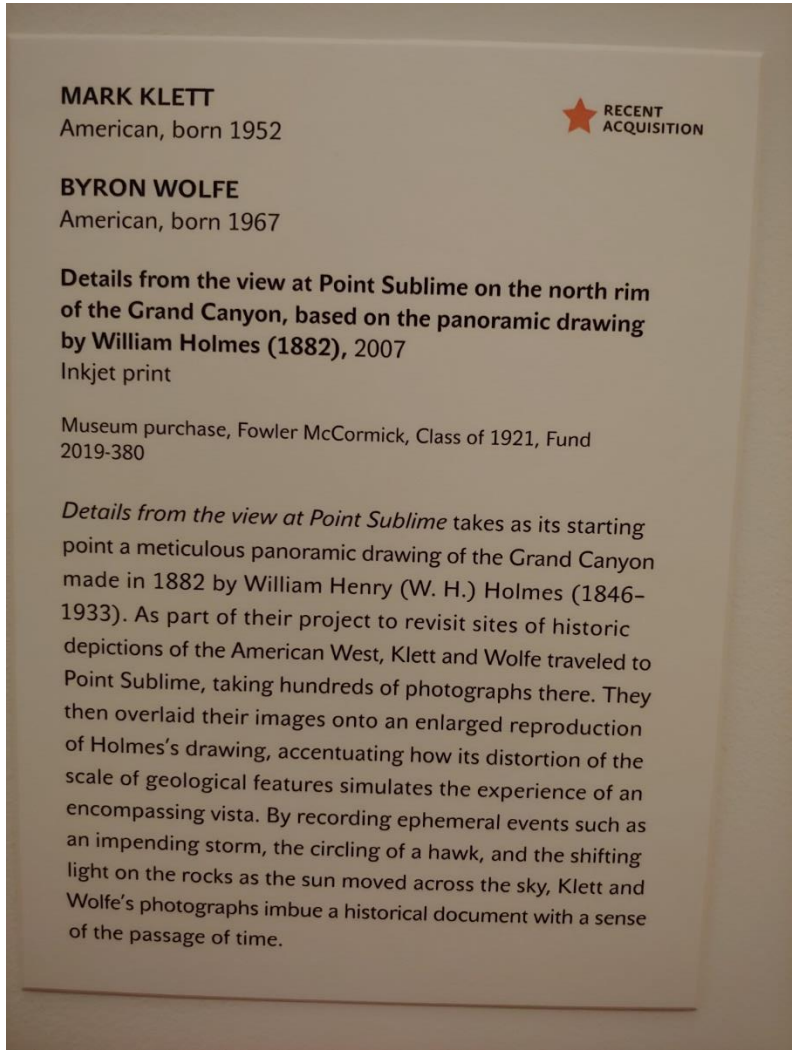


Princeton University Museum



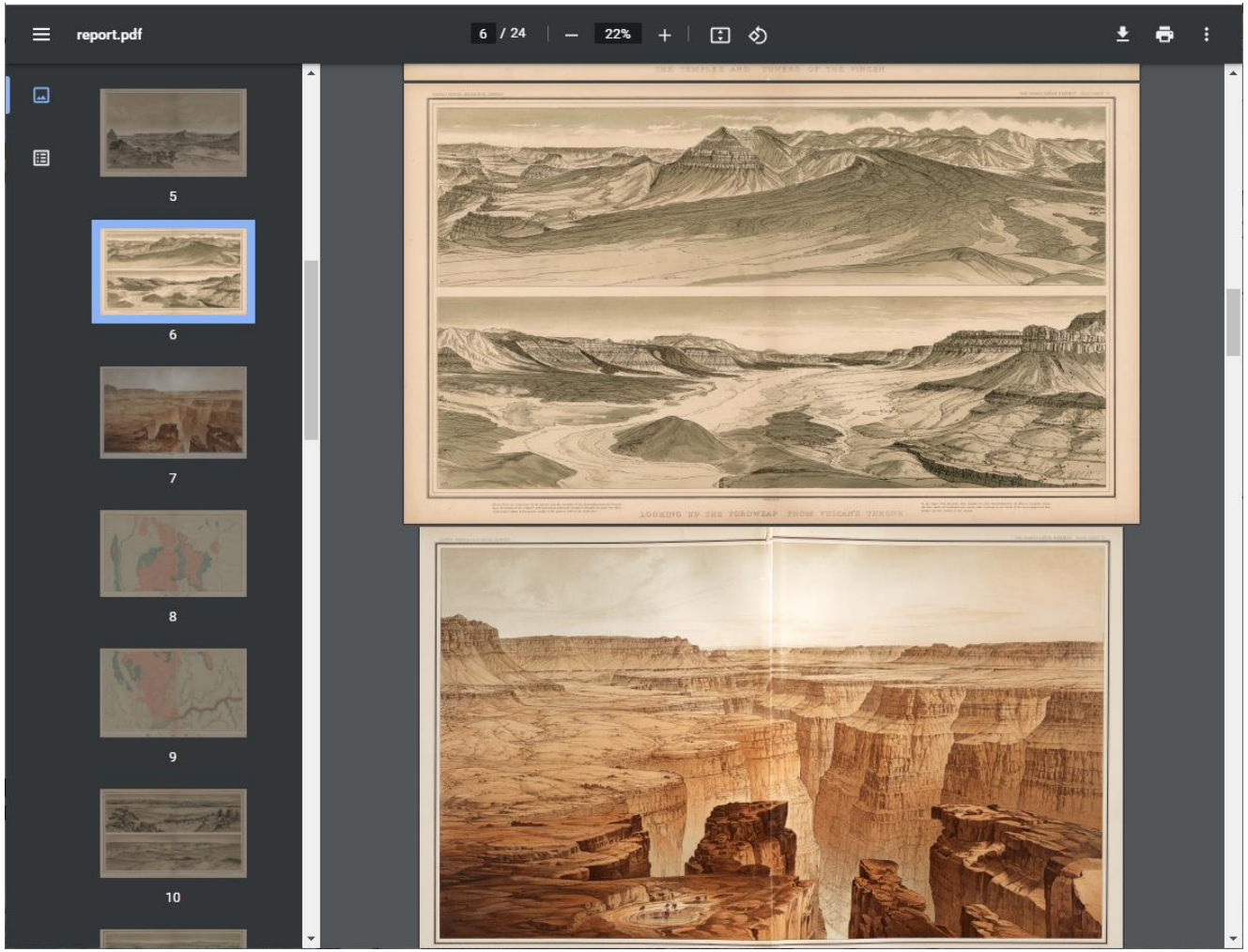
https://pubs.er.usgs.gov/publication/m2_1882

USGS Publications



https://www.klettandwolfe.com/2009/10/panorama-from-point-sublime.html

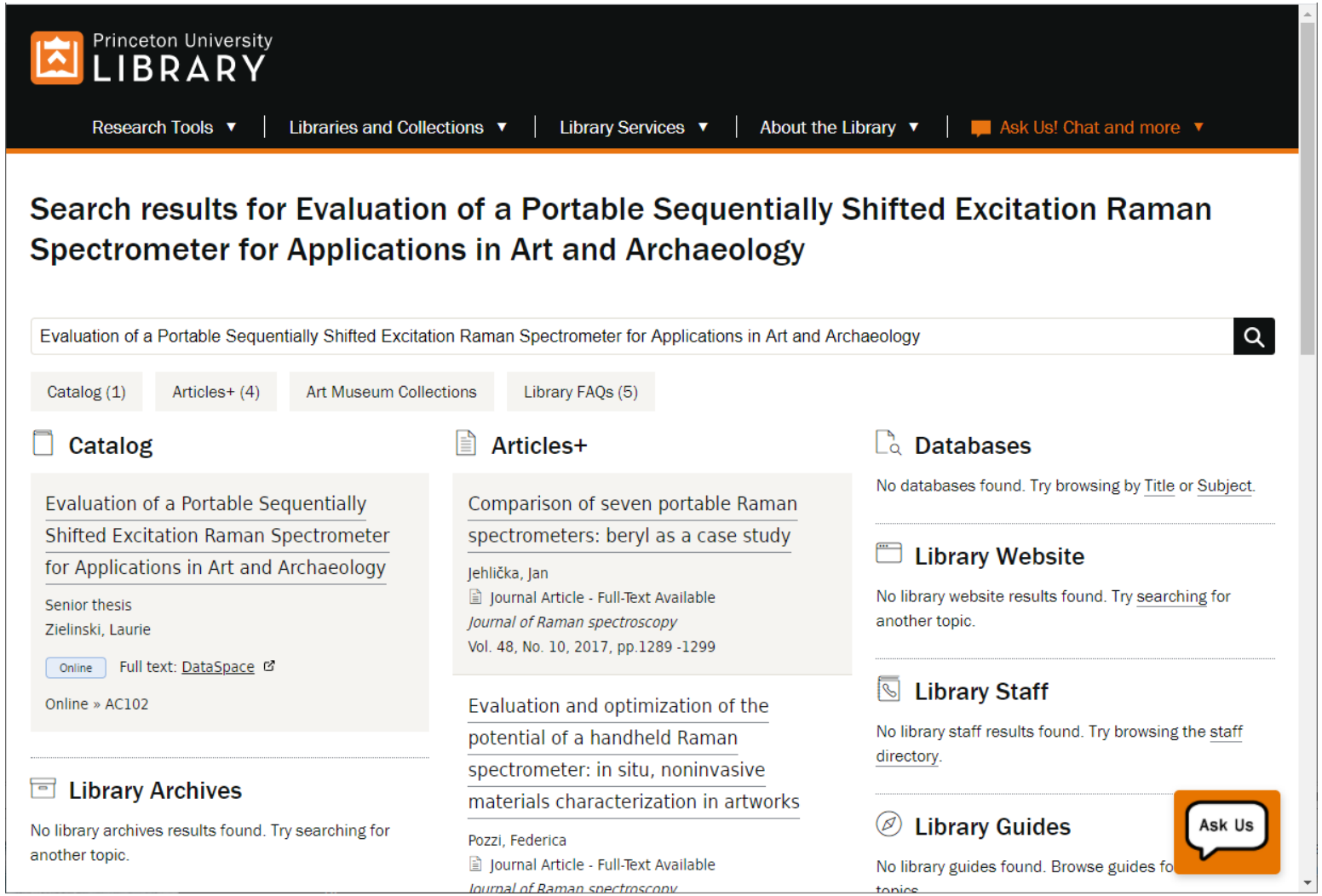
U.S. Geological Survey Monographs:
https://pubs.er.usgs.gov/browse/Report/USGS%20Numbered%20Series/Monograph/



https://pubs.usgs.gov/mono/0002_atlas/report.pdf

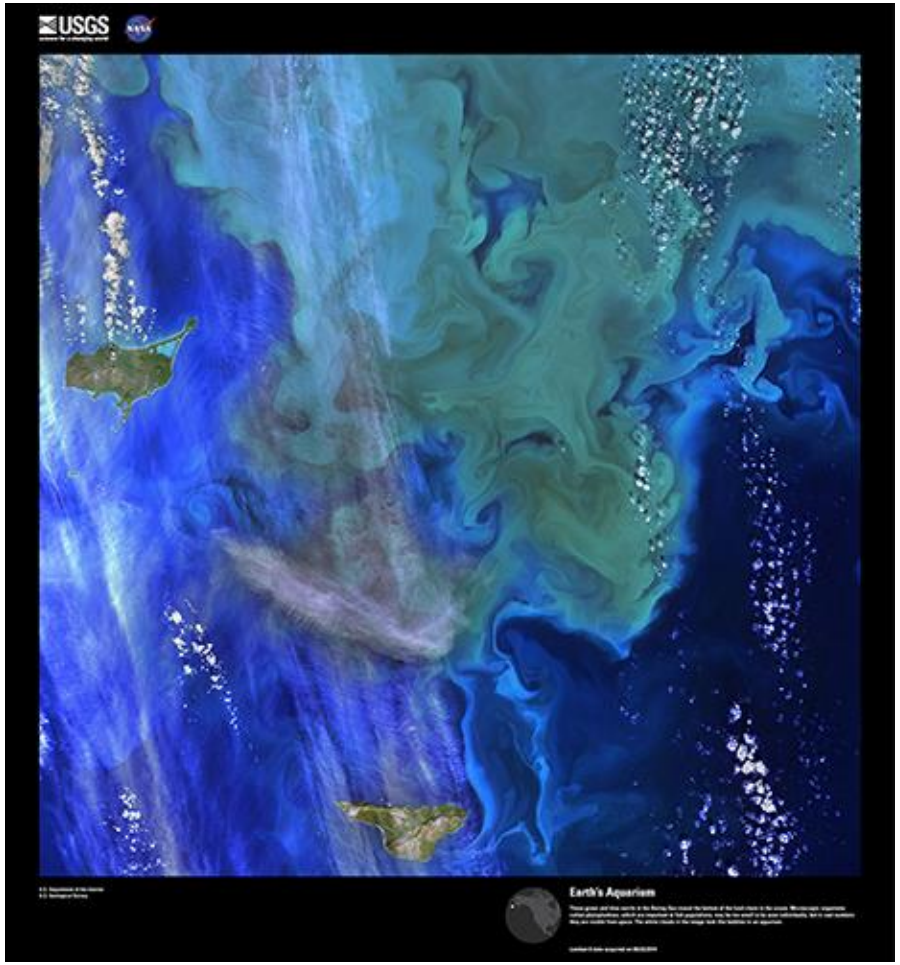
Princeton, Geosciences

https://library.princeton.edu/find/all/Evaluation%20of%20a%20Portable%20Sequentially%20Shifted%20Excitation%20Raman%20Spectrometer%20for%20Applications%20in%20Art%20and%20Archaeology

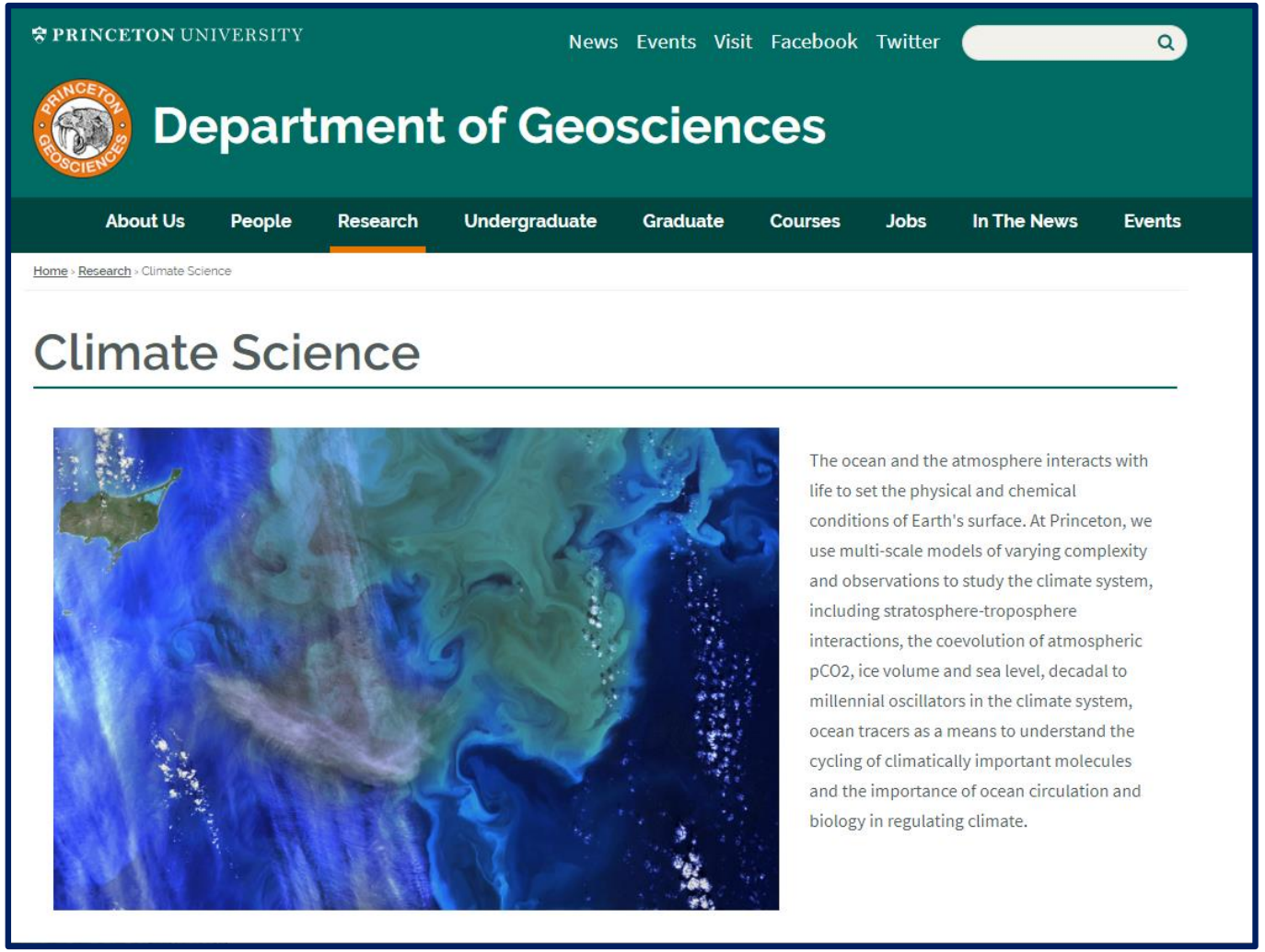


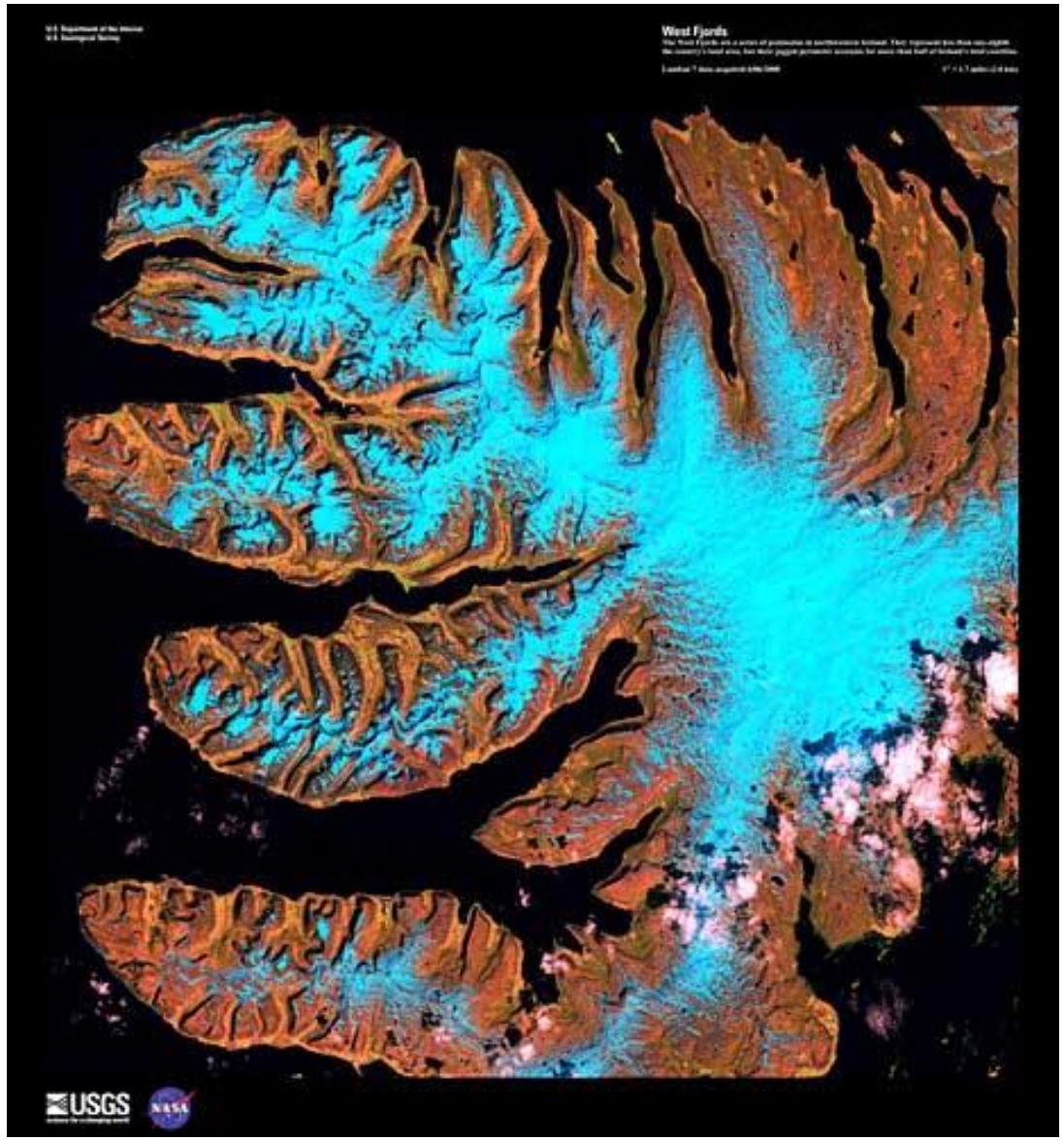
USGS Publications

Earth's Aquarium
September 22, 2014
https://eros.usgs.gov/image-gallery/earth-as-art-4/earths-aquarium



https://geosciences.princeton.edu/research/climate-science





West Fjords

June 1, 2000

https://eros.usgs.gov/image-gallery/earth-as-art-1/west-fjords

The West Fjords are a series of peninsulas in northwestern Iceland. They represent less than one-eighth the country's land area, but their jagged perimeter accounts for more than half of Iceland's total coastline.

Sources: Landsat 7

USGS Publications

Icelandic Tiger
October 21, 1999

https://eros.usgs.gov/image-gallery/earth-as-art-3/icelandic-tiger

This stretch of Iceland's northern coast resembles a tiger's head complete with stripes of orange, black, and white. The tiger's mouth is the great Eyjafjorour, a deep fjord that juts into the mainland between steep mountains. The name means "island fjord," derived from the tiny, tear-shaped Hrisey Island near its mouth. The ice-free port city of Akureyri lies near the fjord's narrow tip, and is Iceland's second largest population center after the capital, Reykjavik.

Sources: Landsat 7

USGS Publications

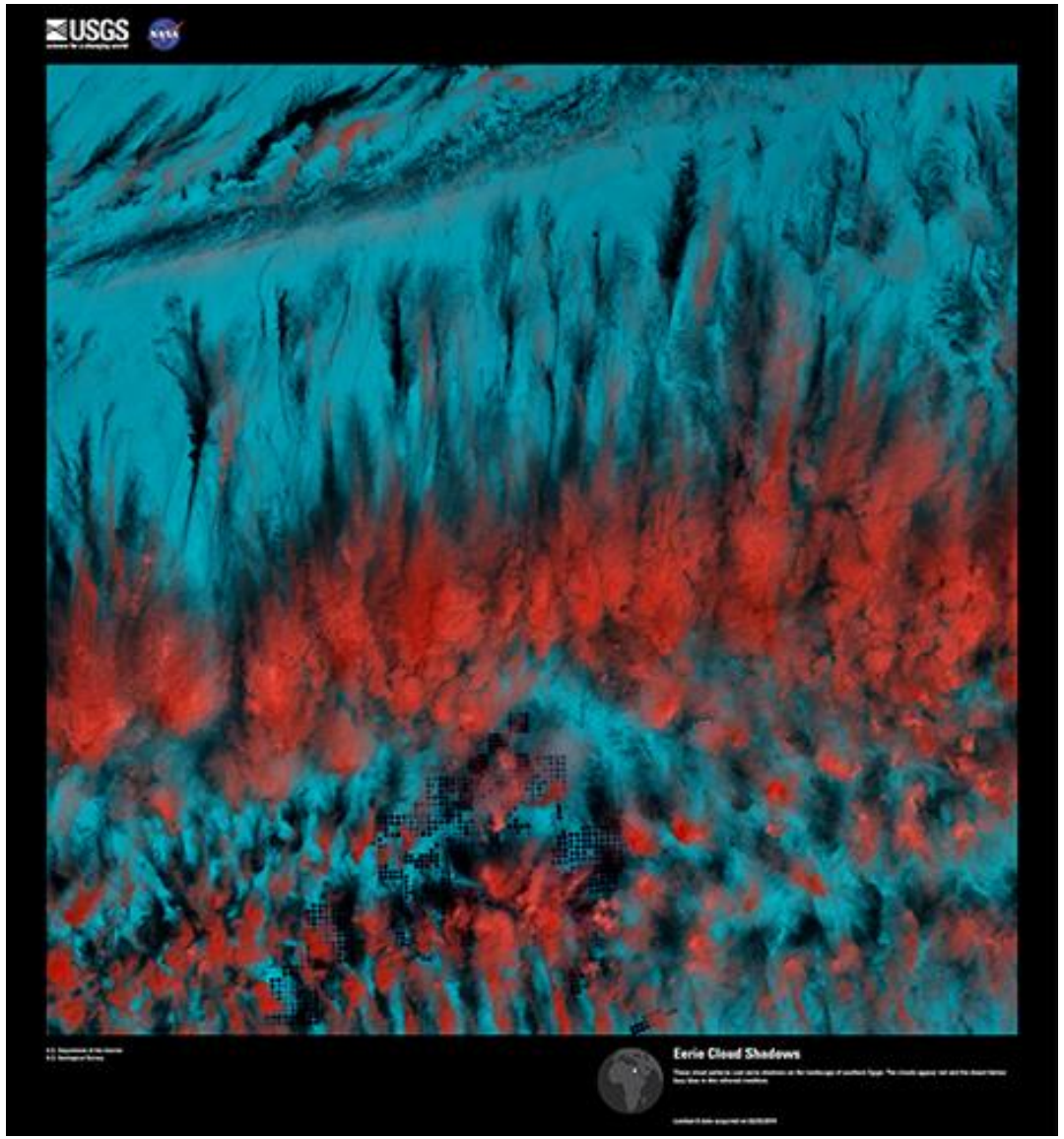
Terkezi Oasis
October 1, 2000

https://eros.usgs.gov/image-gallery/earth-as-art-1/terkezi-oasis

A series of rocky outcroppings are a prominent feature of this Sahara Desert landscape near the Terkezi Oasis in the country of Chad.

Sources: Landsat 7

USGS Publications



Eerie Cloud Shadows

March 22, 2014

https://eros.usgs.gov/image-gallery/earth-as-art-4/eerie-cloud-shadows

These cloud patterns cast eerie shadows on the landscape of southern Egypt. The clouds appear red and the desert below hazy blue in this infrared rendition.

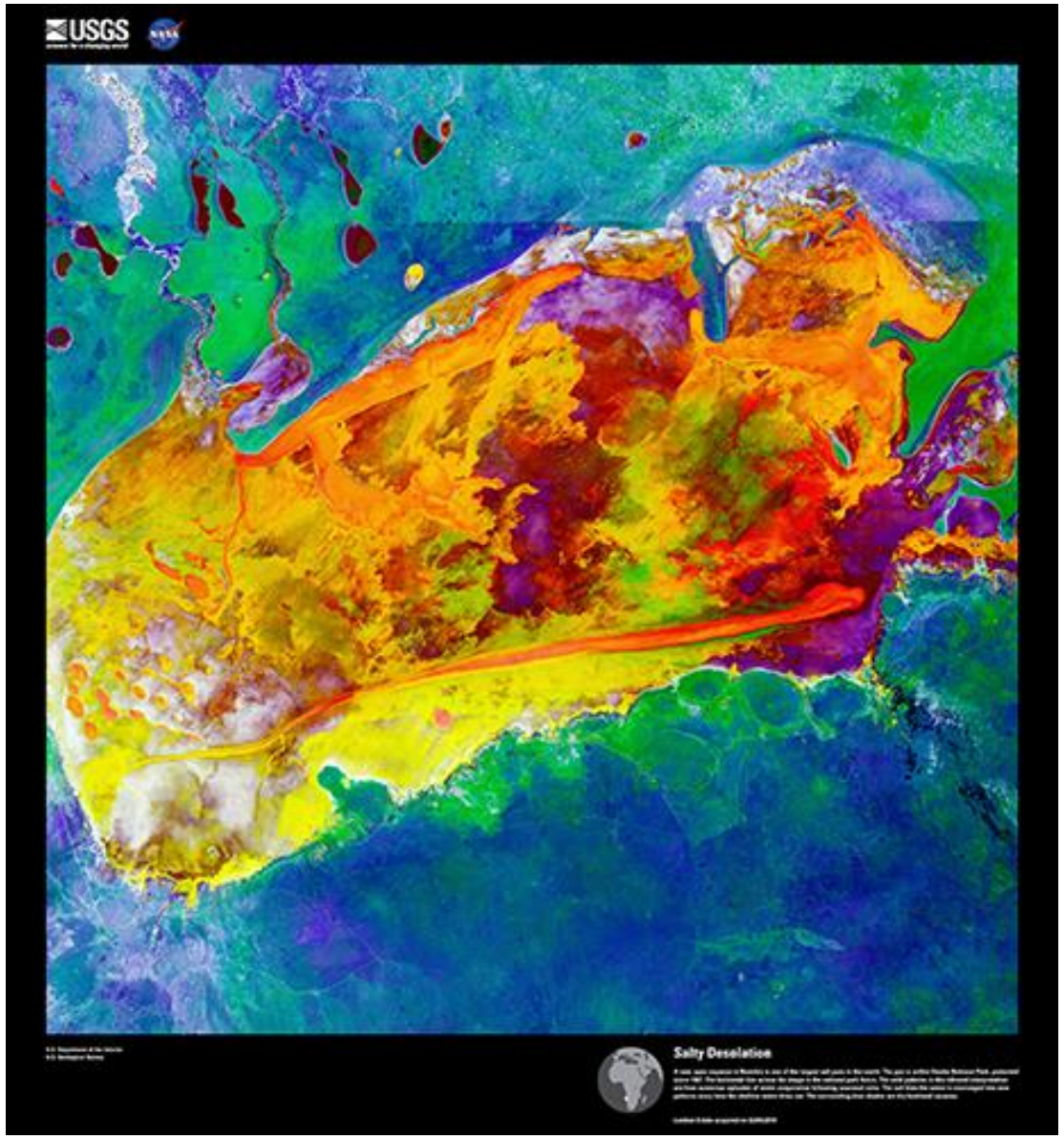
Sources: Landsat 8

Faults

July 30, 2013

When landmasses collide, rock layers can break. Geologists call these breaks "faults." Rock layers are offset in this image in western China, making the faults remarkably clear. The different colors indicate rocks that formed at different times and in different environments.

Sources: Landsat 8



Salty Desolation

March 4, 2014

https://eros.usgs.gov/image-gallery/earth-as-art-6/salty-desolation

A vast, open expanse in Namibia is one of the largest salt pans in the world. The pan is within Etosha National Park, protected since 1907. The horizontal line across the image is the national park fence. The wild patterns in this infrared interpretation are from numerous episodes of water evaporation following seasonal rains. The salt from the water is rearranged into new patterns every time the shallow water dries out. The surrounding blue shades are dry bushland savanna.

Sources: Landsat 8

USGS Publications

William Henry Jackson

https://library.usgs.gov/photo/#/?collection1=jackson,%20w.h.%20collection

Caption: Council Bluffs from Trainville Point, South Omaha, and crossing of Rail Road Bridge over the Missouri. Nebraska, 1869.

In 1869, Henry Wood Elliott was invited to join Ferdinand V. Hayden's United States Geological Survey of Colorado and New Mexico as the artist. The sketches are pencil, pen and ink, and watercolor, but are mostly black and white, except for no. 6 ct, 82050006 on Photos website.

https://library.usgs.gov/photo/#/item/51dc428ae4b0f81004b7b0c5

https://pubs.er.usgs.gov/publication/b222

USGS Library - Photos

Brigham Young University Department of Geology
https://library.usgs.gov/photo/#/?collection1=brigham%20young%20university%20(byu)%20collection

https://library.usgs.gov/photo/#/item/51db4ffee4b02290dffa07b3

https://library.usgs.gov/photo/#/item/51dc18fae4b0f81004b77ec7

USGS Library - Photos

Glaciers & Colorado

https://library.usgs.gov/photo/#/?terms=Colorado&category1=glaciers

https://library.usgs.gov/photo/#/item/51dd747fe4b0f72b4471a880

Glaciers & Alaska

https://library.usgs.gov/photo/#/?terms=Alaska&category1=glaciers

https://library.usgs.gov/photo/#/item/51dd9e73e4b0f72b4471dba3

USGS Copper Plates

Copper Plates Gone (Sort of)
https://www.usgs.gov/news/copper-plates-gone-sort

Castle Rock, Colorado ; Copper Plates (Blue, Brown, Black, Black) and Printed Topo Map

Vintage copper engravings of the greater St. Louis, Missouri area

The highest successful bid was for $18,938 - Nantucket, Massachusetts;

The average successful bid was $489;

The lowest successful bid was $70 (the minimum set by GSA).
Based on the successful bids for sets sold to the public, the value of the engravings was more than $2.1 million, including:
Donated sets: $1,024,832 million (estimated from the average successful bid from comparable sales)
Public sale: $1,106,563 million (total of the successful bids). All of that money went to the U.S. Treasury
Other high dollar sets included:

1) Los Angeles and Ventura Counties - $11,050
2) Martha's Vineyard, Massachusetts - $9,800
3) Sierra Nevada, California - $7,700
4) Santa Monica Mountains, California (geologic map) - $5,100

Department of the Interior

https://www.doi.gov/interiormuseum

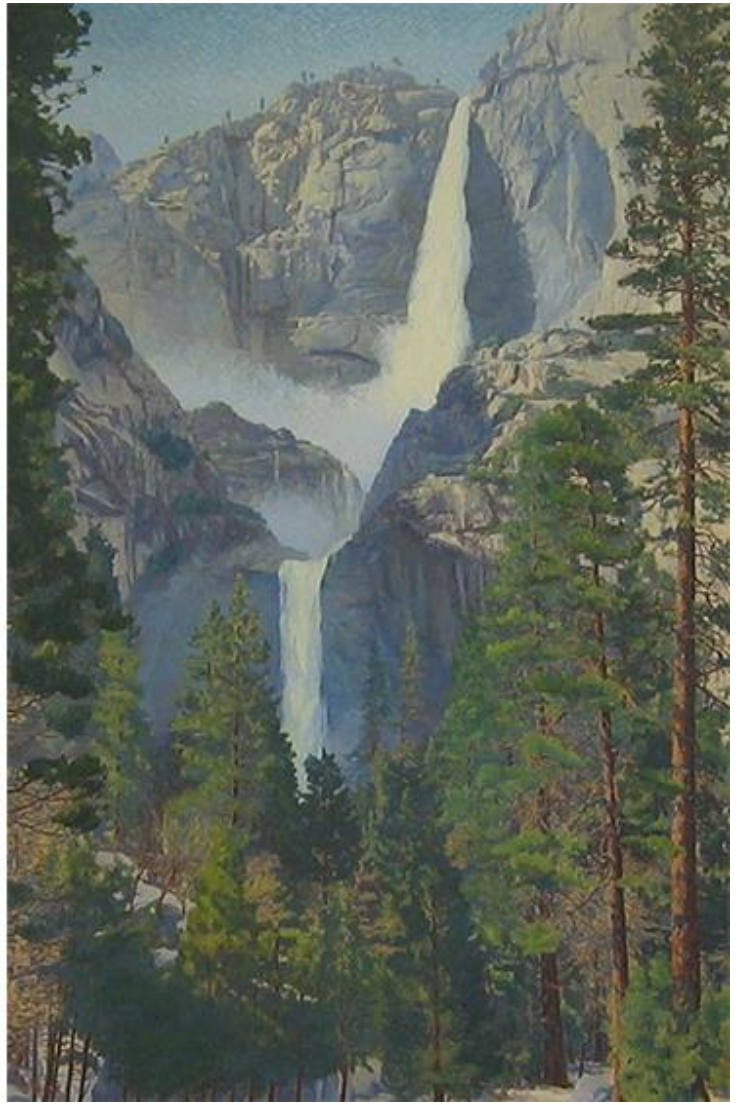
Interior Museum

https://www.doi.gov/interiormuseum/collections

https://artsandculture.google.com/partner/us-department-of-the-interior

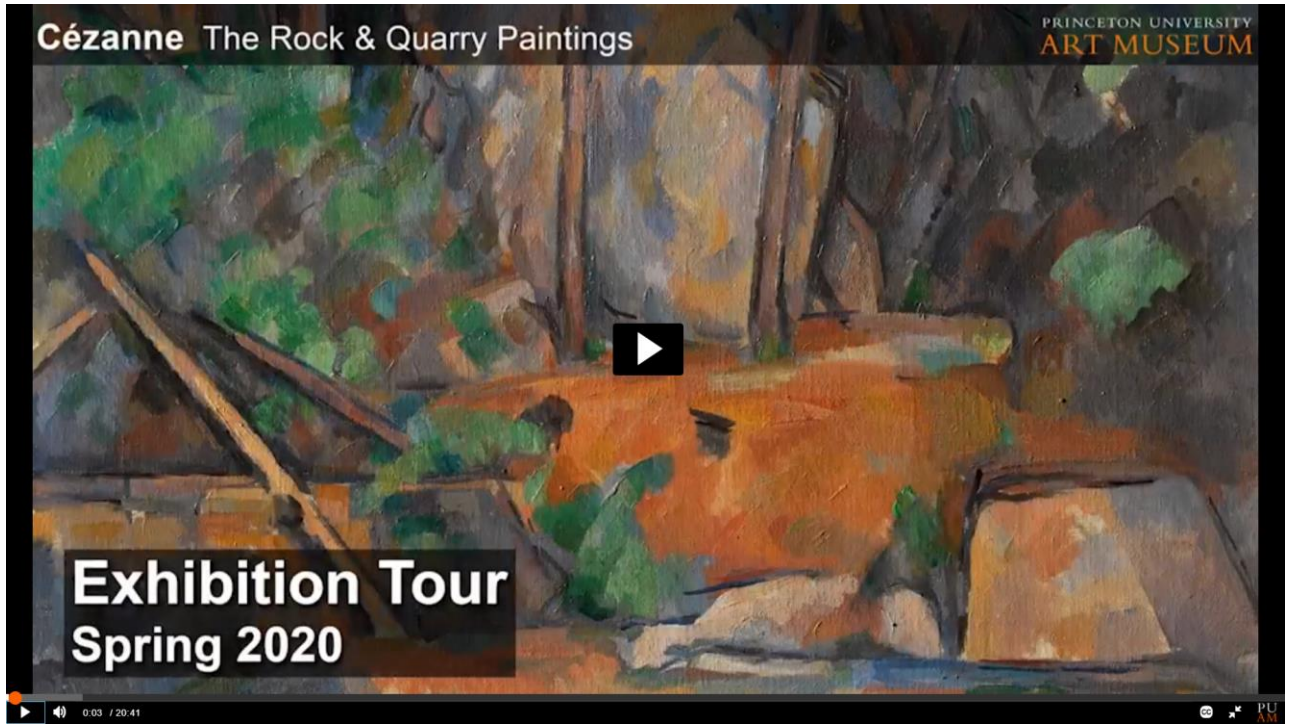
https://artsandculture.google.com/exhibit/stories-in-miniature/dQLi00Xq8_VJJg

Awash in Color: The Interior Museum's Hand-tinted Photographs
https://www.doi.gov/interiormuseum/awash-color-interior-museums-hand-tinted-photographs



Cézanne: The Rock and Quarry Paintings
https://artmuseum.princeton.edu/art/exhibitions/3447

https://artmuseum.princeton.edu/files/non-collections/cezannerq.pdf



Organized by the Princeton University Art Museum, *Cézanne: The Rock and Quarry Paintings* will premiere in Princeton before traveling to the Royal Academy of Arts, London.

https://www.wikiart.org/en/paul-cezanne/rocks-at-l-estaque

Nature's Nation: American Art and Environment

https://artmuseum.princeton.edu/art/exhibitions/2818

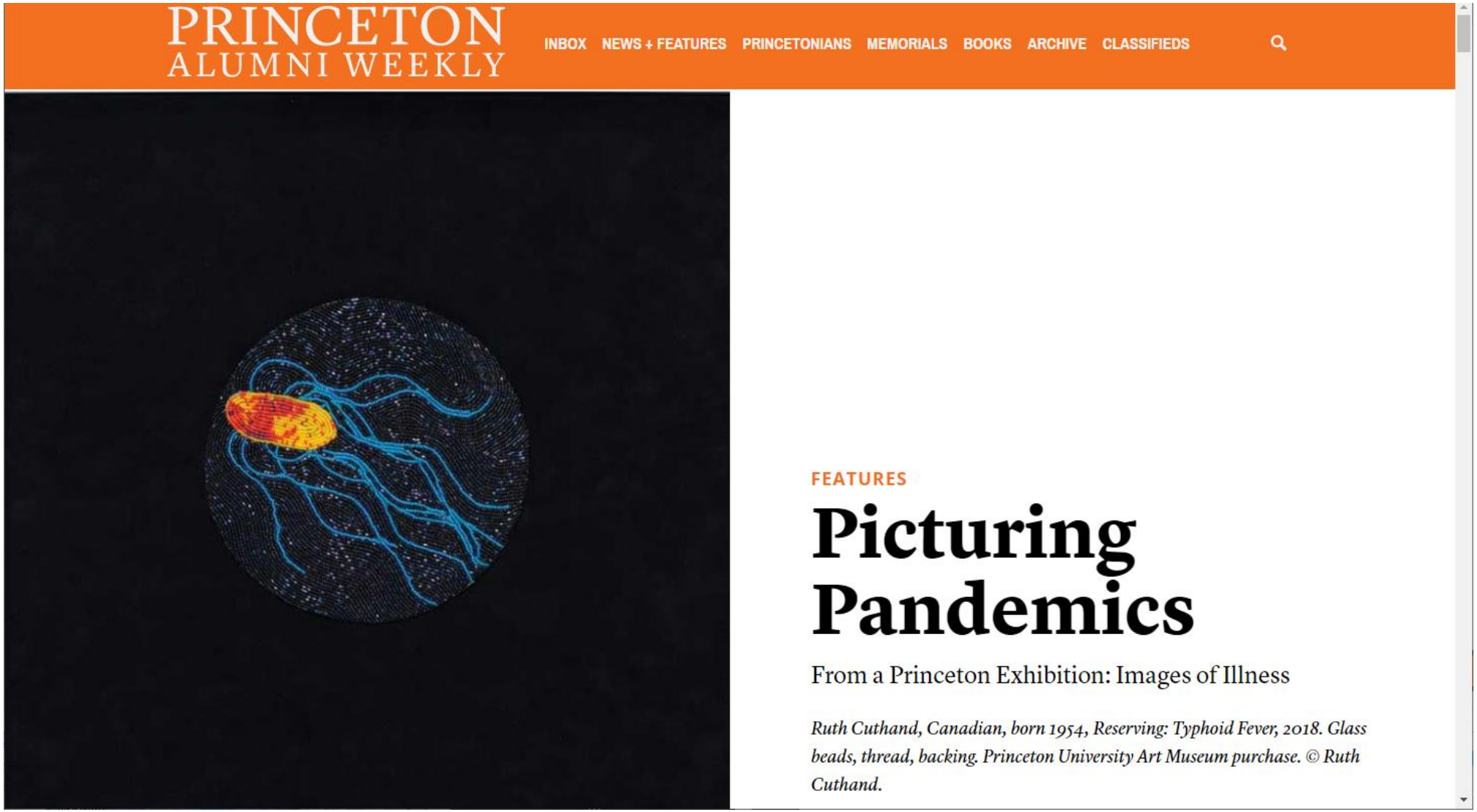
http://artimage.princeton.edu/files/ProductionJpegs/NN_checklist_web.pdf

https://learn.ncartmuseum.org/artwork/bridal-veil-falls-yosemite-2/

https://americanart.si.edu/artwork/burning-oil-well-night-near-rouseville-pennsylvania-9887

https://artmuseum.princeton.edu/story/fitz-henry-lane%E2%80%99s-ship-fog-gloucester-harbor

Picturing Pandemics:
https://paw.princeton.edu/article/picturing-pandemics



Library of Congress

https://www.loc.gov/collections/

https://memory.loc.gov/ammem/index.html
Documentary Chronology of Selected Events in the Development of the American Conservation Movement, 1847-1920
https://memory.loc.gov/ammem/amrvhtml/conshome.html
https://memory.loc.gov/ammem/amrvhtml/cnchron1.html

The Grand Canon, Yellowstone / TM ; Prang's American Chromo. c1875.

Preservation Research and Testing

https://www.loc.gov/preservation/about/rt/index.html

Instrumentation Analysis Resources

https://www.loc.gov/preservation/scientists/instrumentation/index.html

Digital Microscopy and Imaging

Qualitative and quantitative study of materials — The color, morphology, and other optical properties of collection materials (and of the media contained on them) provide information about their identity, the impact of environmental factors on their longevity, and the effects of conservation treatments on their integrity. Digital documentation of the images is essential for the evaluation of materials over generations of preservation activities.

- Environmental Scanning Electron Microscopy
- Hyperspectral Imaging
- Compound Digital Microscopy
- Stereo Digital Microscopy and Image Analysis
- Image Analysis Workstation

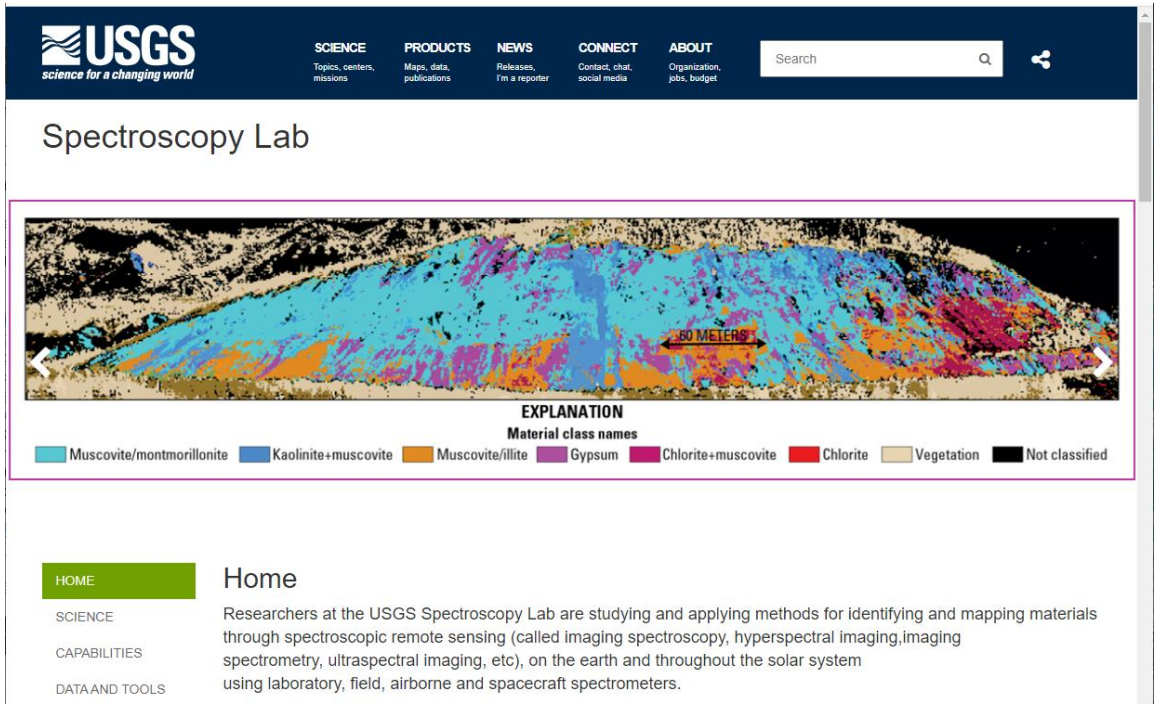
Elemental Spectroscopy

Spectroscopic determination of inorganic elements in a variety of collection and housing materials — The elements studied include most of the periodic table; metals and nonmetals that are important both from a fundamental formulation perspective, as well as for their catalytic (and sometimes buffering) role in degradation.

- Energy-Dispersive X-Ray Spectroscopy
- Inductively Coupled Plasma — Optical Emission Spectrometry with Laser Ablation
- Portable X-Ray Fluorescence Spectrometry

https://www.usgs.gov/usgs-laboratories

https://www.usgs.gov/labs/spec-lab



Preservation Research and Testing
https://www.loc.gov/preservation/about/rt/index.html

Analytical Projects
https://www.loc.gov/preservation/scientists/analytical/index.html

Verin Noravank Gospels: Technical Study of Pigments, Inks and Coatings
https://www.loc.gov/preservation/scientists/analytical/noravank.html

The Forbes Pigment Reference Collection: Characterization Using Scanning Electron Microscopy (SEM) and X-ray Fluorescence (XRF)
https://www.loc.gov/preservation/scientists/projects/pigment_ref_coll.html

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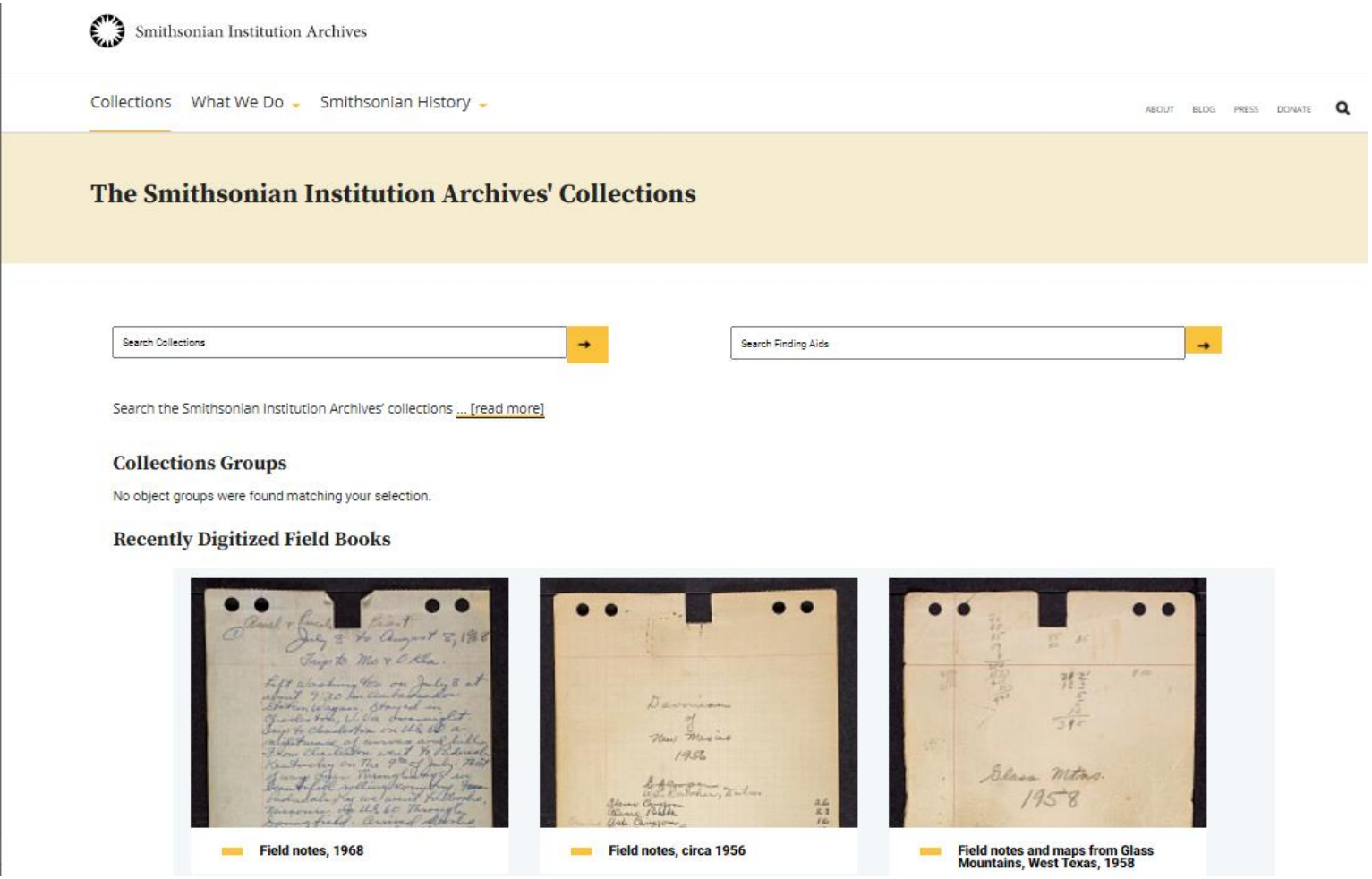
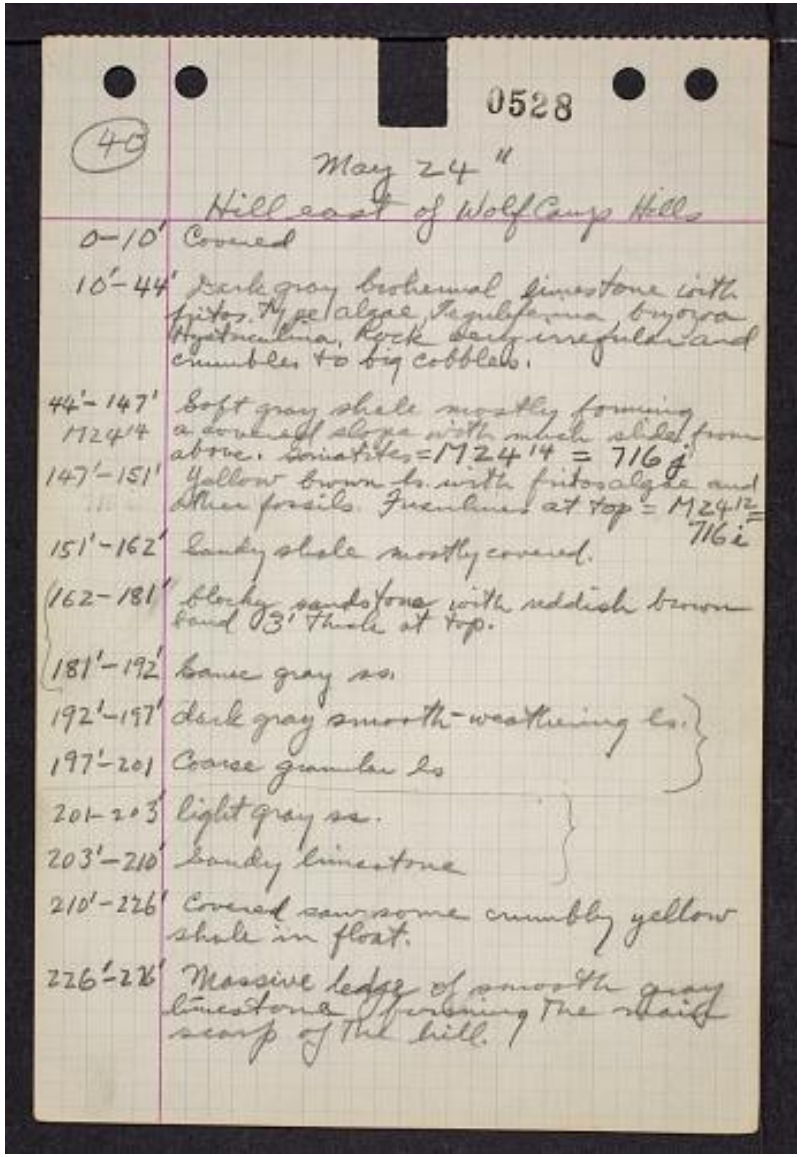
https://siarchives.si.edu/collections





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https://siarchives.si.edu/collections/fbr_item_modsi2106-0

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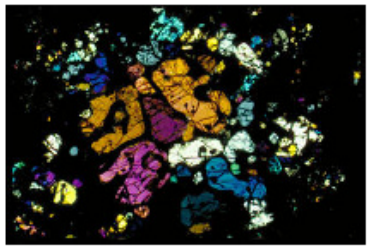

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See the Help tab to learn more about searching and then exploring your returned results (sorting, exporting, etc.).

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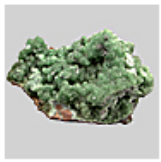
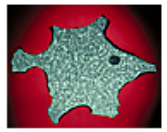


Gems & Minerals with images



Meteorites with images

Petrology & Volcanology with images

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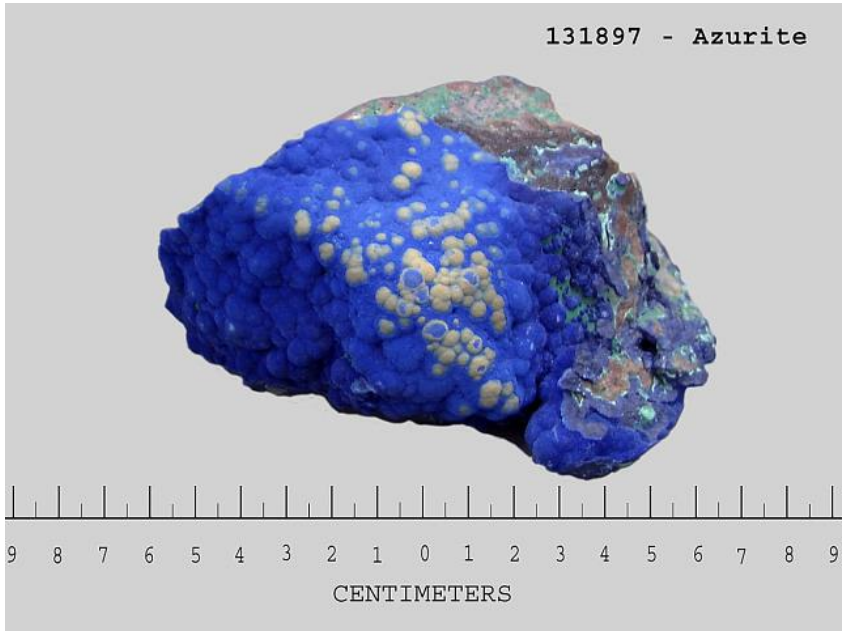
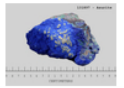
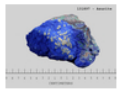


Mineralogy: Azurite

Catalog Number:	131897 00					
Specimen Count:	1					
Identification List:	Taxon	Qualifier	Part	Id By	Texture/Structure	Color
	Azurite		Primary Mineral			
	Malachite		Associated Mineral			
Country:	United States					
Province/State:	Arizona					
District/County:	Greenlee Co.					
Precise Locality:	Morenci					
Latitude:	33.075					
Longitude:	-109.365					
Radius:	10 km					
Notes:	Matched to the GeoNames record for Morenci, Greenlee Co., Arizona, United States (http://geonames.org/5305503) based on feature name, district/county, state/province, and country using the situate.py script. This was the most specific match possible based on information available in this record. Bounding box coordinates were rounded to 2 decimal places from the values given by GeoNames. An arbitrary error radius of 10 km was assigned to all featureCode=PPL records matched using the script.					
Other Numbers:	Type		Value			
	IGSN		NHB000Y9S			
EZID:	http://n2t.net/ark:/65665/35215788b-953d-4b4e-939b-0870d3df89ca					





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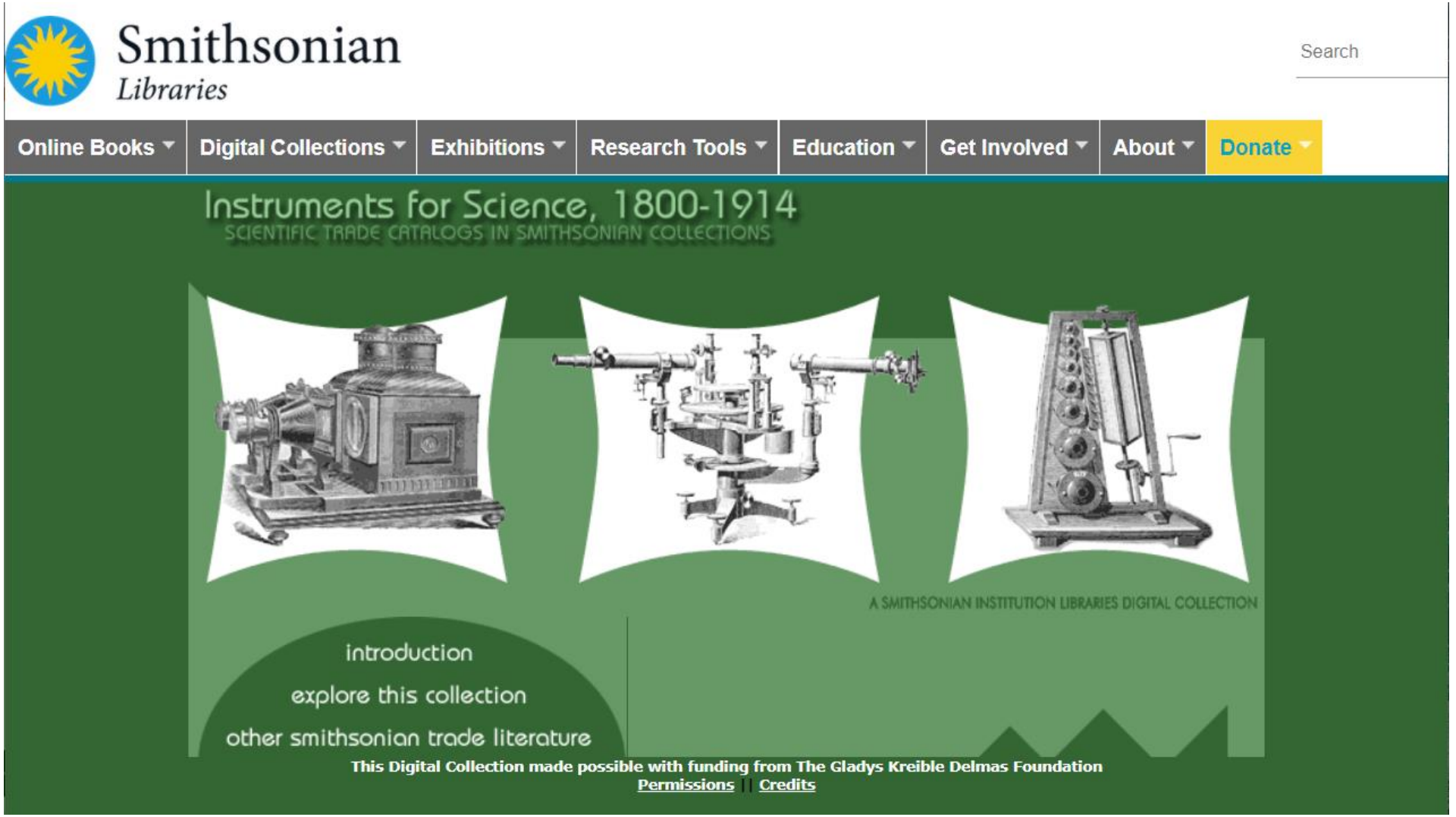
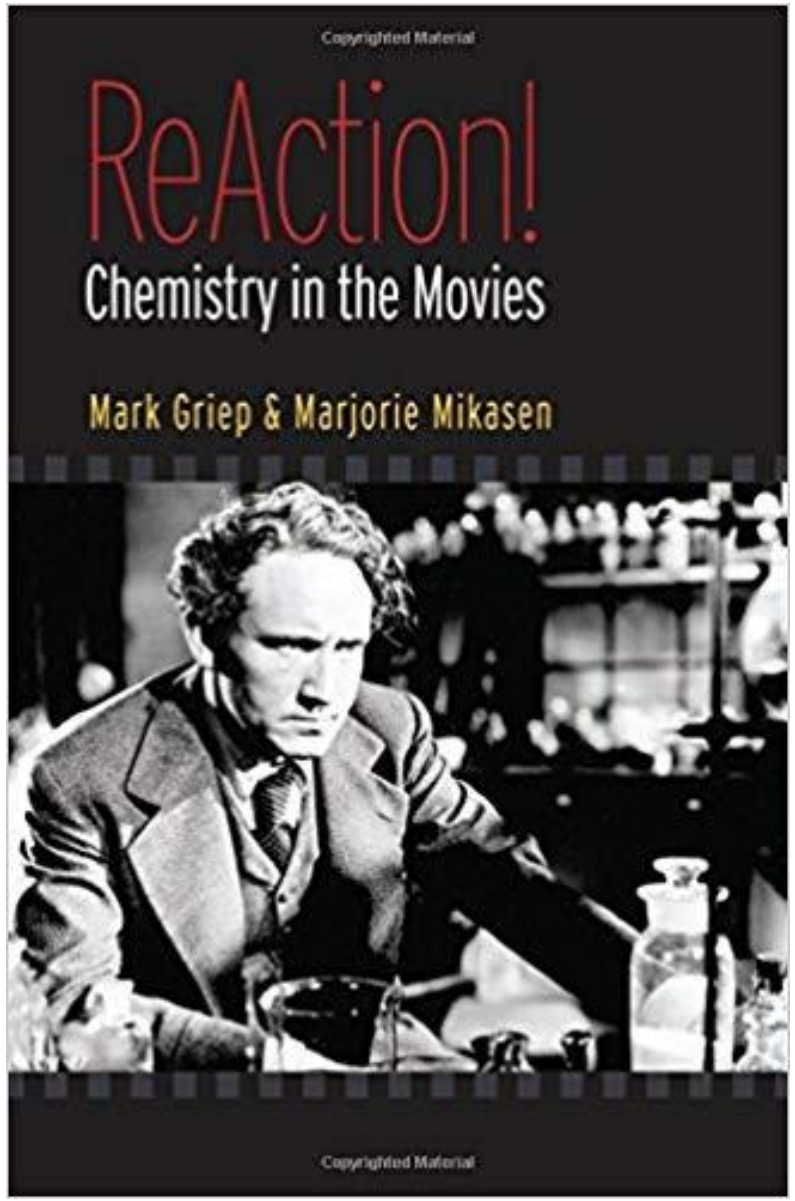
https://library.si.edu/ https://library.si.edu/collections



https://www.sil.si.edu/DigitalCollections/trade-literature/scientific-instruments/?_ga=2.133479694.1454041862.1614216551-2025618675.1609789349



https://library.princeton.edu/find/all/ReAction%21%3A%20Chemistry%20in%20the%20Movies

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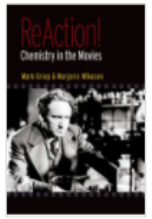

Reaction! : chemistry in the movies / Mark Griep and Marjorie Mikasen.

Author	Griep, Mark [Browse]
Format	Book
Language	English
Published/Created	Oxford, [England] : Oxford University Press, 2009. ©2009
Description	1 online resource (351 pages) : illustrations

Other versions

Reaction! : chemistry in the movies / Mark Griep and Marjorie Mikasen.
Id 5863106

Reaction! : chemistry in the movies / Mark Griep and Marjorie Mikasen.
Id SCSB-5483739

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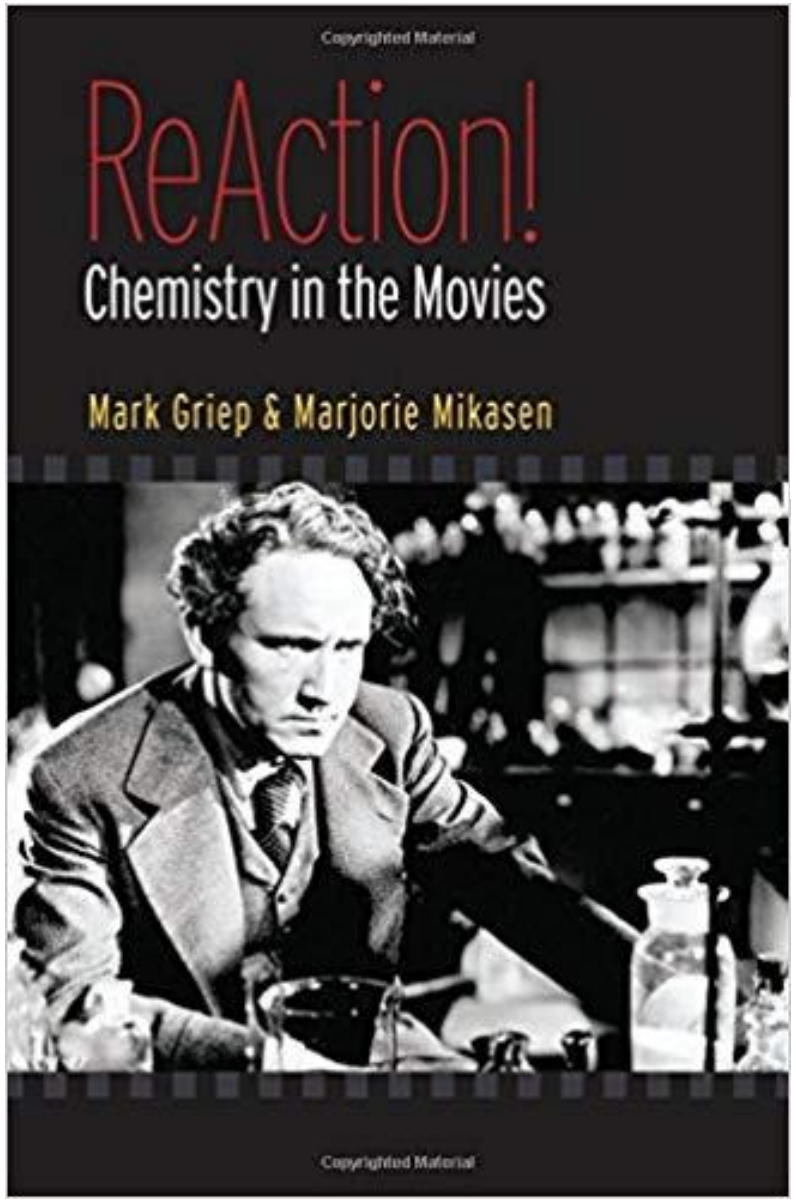

https://library.princeton.edu/find/all/ReAction%21%3A%20Chemistry%20in%20the%20Movies

Table 2.1. Chemical invisibility in the movies

Title (Year)	Invisibility or Reversion Agent
Hollow Man (2000)	Caine-126
Now You See Him, Now You Don't (1972)	Paint
Invisible Agent (1942)	[Monocaine]
Invisible Woman (1940)	Formula and ray
The Invisible Man Returns (1940)	Duocaine
The Invisible Man (1933)	Monocaine
The Invisible Thief (1909)	Unnamed

Table 11.1. Archetypical chemistry in the movies

Chapter and Title (Year)	Chemical Theme
1. *Dr. Jekyll and Mr. Hyde* (1931)	Chirality and mirrors
2. *The Invisible Man* (1933)	Cocaine local anesthesia
3. *The Testament of Dr. Mabuse* (1933)	Nerve gas
3. *Dr. Strangelove* (1964)	Fluoridation paranoia
4. *One Man* (1977)	Lead poisoning
5. *The Trip* (1967)	LSD and Thorazine
6. *The Man in the White Suit* (1951)	Synthetic fiber
7. *Kid Glove Killer* (1942)	Vanadium trace detection
8. *The Nutty Professor* (1963)	Androgenic-anabolic steroids
9 and 10. *Dr. Ehrlich's Magic Bullet* (1940)	Arsenic-containing antisyphilitic

Appendix 1

How to Use This Material in the Classroom

Chemistry instructors can use either entire movies or movie clips as part of their lecture strategy. Only a small subset of the movies is best suited for viewing in their entirety, as described in the next section. On the other hand, nearly all movies in this book have short "scientific explanation scenes" within their narratives that can be used in the chemical classroom to illustrate a chemical point or provoke a discussion. These 3- to 5-minute movie clips can be used for all the same reasons as lecture demonstrations.

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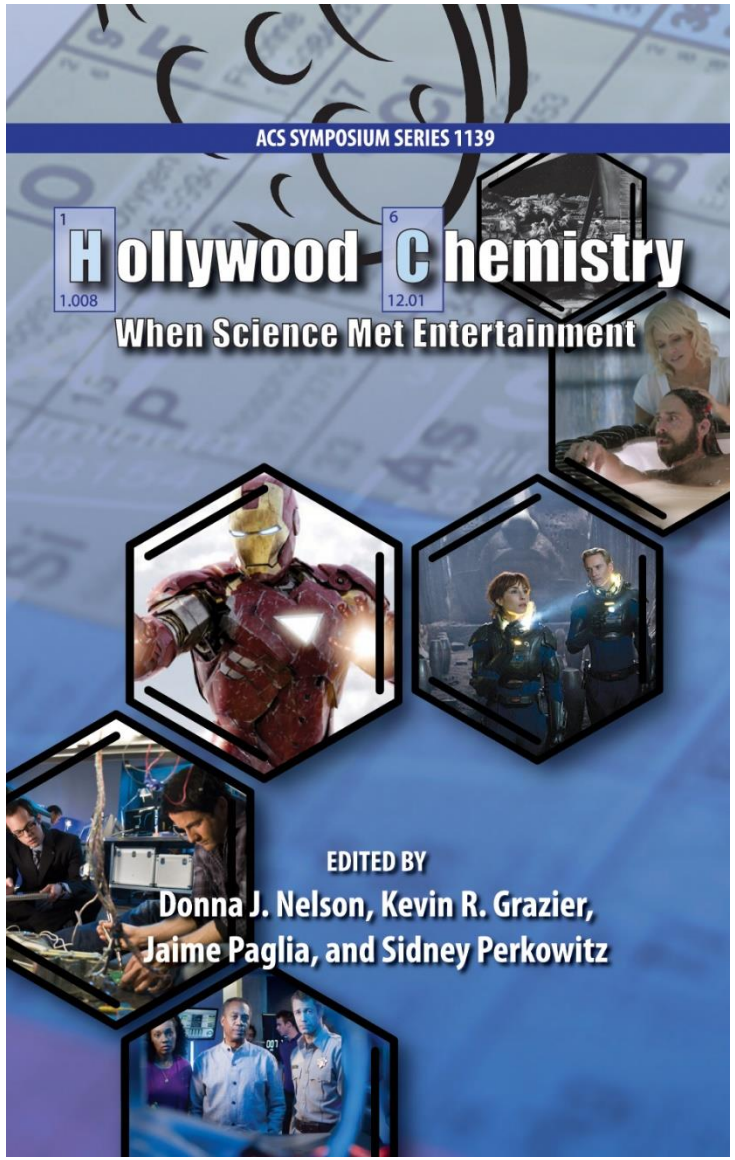

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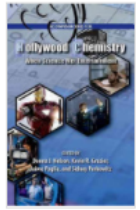

Hollywood chemistry : when science met entertainment / Donna J. Nelson, editor, University of Oklahoma, Norman, Oklahoma Kevin R. Grazier, editor, planetary scientist/writer, Sylmar, California, Jaime Paglia, editor, writer/producer, Venice, California, Sidney Perkowitz, editor, Emory University, Atlanta, Georgia.

Format	Book
Language	English
Published/Created	Washington, DC : American Chemical Society, [2013]
Description	1 online resource.

Other versions

Hollywood chemistry / Donna J. Nelson, editor, University of Oklahoma, Norman, Oklahoma Kevin R. Grazier, editor, planetary scientist/writer, Sylmar, California, Jaime Paglia, editor, writer/producer, Venice, California, Sidney Perkowitz, editor, Emory University, Atlanta, Georgia.
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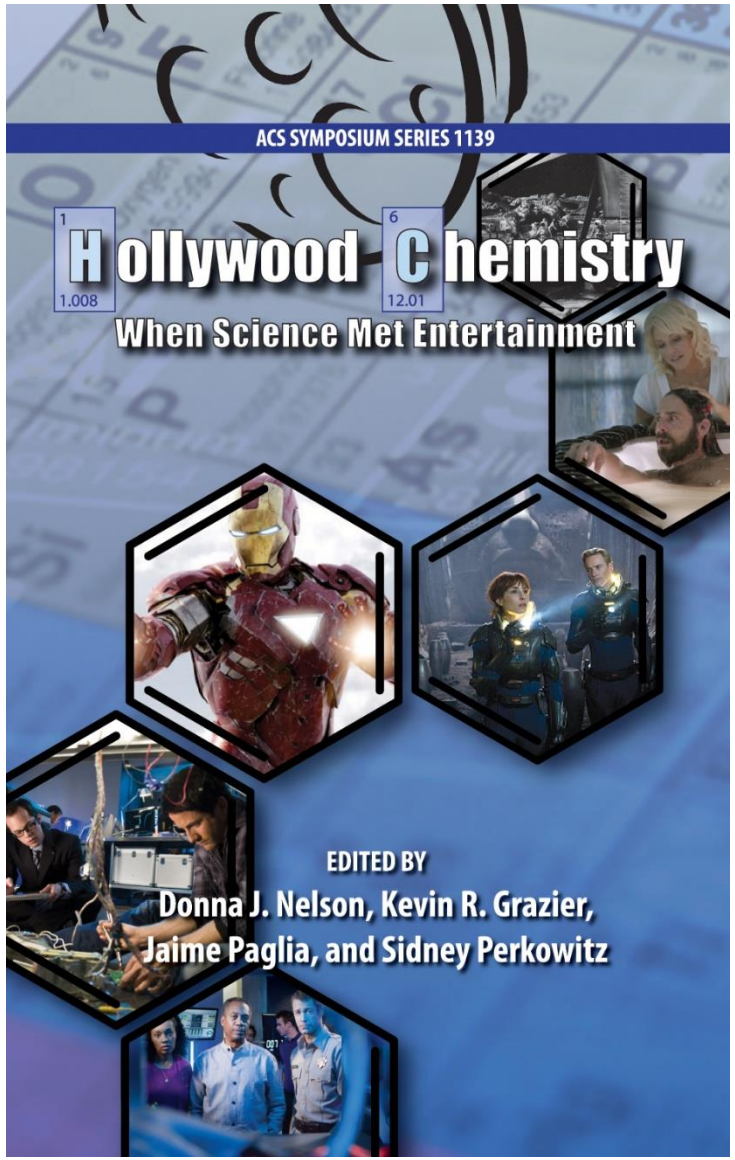

Using the Space Program from Mercury to Apollo as Portrayed in the Movies *The Right Stuff* and *Apollo 13* and in the Mini-Series *From the Earth to the Moon* as a Teaching Tool

James G. Goll*

DOI: 10.1021/bk-2013-1139.ch016
Publication Date: September 3, 2013
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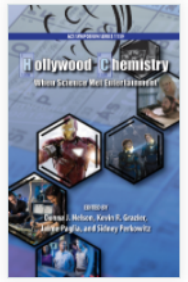
Hollywood Chemistry
Chapter 16, pp 189-197

ACS Symposium Series, Vol. 1139
ISBN13: 9780841228245 **eISBN:** 9780841228252



Abstract

This chapter will examine how popular media related to the space program can be used to demonstrate the nature and motivation of scientific inquiry and science concepts. For over fifty years, the space program has inspired students of science and engineering. The United States manned space program from project Mercury to Apollo is the subject of two movies, *The Right Stuff* and *Apollo 13*, and the mini-series *From the Earth to the Moon*. Many documentary style television productions are available to supplement these movies and the miniseries. These documentaries provide recollections from astronauts, flight controllers, and flight directors. *Moonshot* and *To the Moon* chronicle the manned space program during the Mercury, Gemini, and Apollo programs. The documentary *To the Edge and Back* inspired the movie, *Apollo 13*. The Science Channel's *Moon Machines* shows many behind-the-scenes people who made the trips to the Moon possible. The History Channel used the manned space program as a subject for several of its series: *Man, Moment, and Machine*, *Modern Marvels*, *20th Century with Mike Wallace*, and *Failure is Not an Option*.

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