National Park Service
U.S. Department of the Interior

FINDING AID

YELLOWSTONE AND THE BIOLOGY OF TIME REPHOTOGRAPHY PROJECT

1871-1944, 1962-1975, 1990-1993

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HISTORY

In the early 1970s, Mary Meagher and Douglas B. Houston began compiling a collection of repeat photographs. They assembled a large number of historical photographs, taken by a number of different individuals beginning in 1871, in Yellowstone and surrounding areas. Meagher and Houston then revisited the sites in each of the historical prints and took new photographs of the locations. Their objective was simple: Meagher and Houston sought to document the changes in landscape and vegetation at each location over time. They took the comparative photographs over a period of five years between 1970 and 1975.

In 1988, Yellowstone was affected by a series of major fires. Meagher and Houston decided to revisit many of the sites they had visited in the early 1970s to document further changes in the landscape and vegetation. The resulting photos, combined with their photos from the 1970s and the historical prints of the park and surrounding area, form the bulk of the *Yellowstone and the Biology of Time* Rephotography Project. In 1998, their work was published in the book *Yellowstone and the Biology of Time*.

Mary Meagher is a retired research biologist who worked for Yellowstone for a number of years. She was specifically interested in mammal ecology with an emphasis on bison. Prior to her work as a biologist, she served for a number of years as curator of the Yellowstone Museum Collections.

Douglas B. Houston is a retired research scientist. He previously worked for the National Park Service, the National Biological Service and the United States Geological Service – Biological Division. He is the author of *The Northern Yellowstone Elk: Ecology and Management.*

The photos of Mary Meagher and Douglas B. Houston combine to form the bulk of the repeat photographs featured in this collection. The historical prints were taken by many photographers. Some were unnamed tourists, unidentified U.S. Army Engineers and U.S. Forest Service employees, or unknown entirely. Many others were important figures, photographers, and government employees who played a special part in the history of the park and the American West.

The photographs of Joseph P. (J.P.) Iddings are featured extensively in the *Yellowstone and the Biology of Time* Rephotography Project. Iddings, a geologist, captured his photographs during the trips he made to Yellowstone in the 1880s as part of the Hague Surveys for the United States Geological Survey. The expeditions, led by geologist Arnold Hague, produced important data that was used to further protect and preserve the Yellowstone area.

William Henry Jackson's photos were utilized heavily by Meagher & Houston. Jackson traveled through Yellowstone in the 1870s and 1880s, first as a member of the Hayden Geological Survey in 1871, then the Hague Geological Surveys of the 1880s. The data brought back by the Hayden Survey and the photographs taken by Jackson directly influenced the creation of Yellowstone National Park.

HISTORY (cont'd)

The photographs of Frank J. (F.J.) Haynes and Jack Ellis (J.E.) Haynes also appear often in the *Yellowstone and the Biology of Time* Rephotography Project. F.J. Haynes first arrived to photograph Yellowstone in the 1880s and opened a photography business in the park. He was known as the "Official Park Photographer" and acted as official photographer for President Arthur's visit in 1883. He passed his love for photography and the park onto his son J.E, who continued to photograph the park and run the family business into the second half of the 20th century. The Rephotography Project also features images that were taken by employees of the Haynes', including Elliott W. Hunter.

SCOPE AND CONTENT

YELLOWSTONE AND THE BIOLOGY OF TIME
REPHOTOGRAPHY PROJECT
1871-1944, 1962-1975, 1990-1992

YELL 203909

VOLUME 4 LF

This collection contains 12 boxes of mounted photographs, 3 boxes of copy negatives and prints from the 1970s, and 1 box with negatives, proof sheets, and loose prints from the 1990s. Included are the 100 plates used in the book *Yellowstone and the Biology of Time*. An additional 244 sheets with historical prints and repeat photographs are included. A few repeat photographs in this collection were taken by George Gruell. All of the historical photos contained in this collection are reproductions. The photos of Mary Meagher and Douglas B. Houston are original prints.

ORGANIZATION

PROVENANCE Donated by Mary Meagher, 1999.

RESTRICTIONS Yes - The original prints of Mary Meagher and Douglas B. Houston are not subject to copyright restrictions. For all historical prints, please check with the institution which holds the original.

ASSOCIATED MATERIALS

- Yellowstone National Park Museum Photo Collections: Bessie Haynes Arnold Photographs; G. Baggley Photographs; W.J. Barmore Photographs; Bureau of Public Roads Photographs; CCC Vegetation Survey Photographs; H.B. Calfee

Photographs; F.L. Carter Photographs; F. Childs Photographs; R.S. Coppess Photographs; W.J. Cribbs Photographs; M.F. Daum Photographs; W. Gammill Photographs; F.J. and J.E. Haynes Photographs; B.F. Hoyt Photographs; L.A. Huffman Photographs; T.W. Ingersoll Photographs; W.H. Jackson Photographs; J. Joffe Photographs; C.D. Loughrey Photographs; R.K. MacDonald Photographs; McDougall & Grimm Photographs; W.M. Rush Photographs; C.P. Russell Photographs; H. Shipler Photographs; M.P. Skinner Photographs; E.H. Train Photographs; U.S. Army Engineers Photographs; E.R. Warren Photographs; W.W. Wickes Photographs.

- Yellowstone National Park Research Library: *Yellowstone and the Biology of Time*, by Mary Meagher & Douglas B. Houston.

- Bridger-Teton National Forest Headquarters Photo Library: George Gruell Photos.

- Colorado Historical Society: William Henry Jackson Detroit Publishing Co. Glass Plate Negatives Collection.

- George Eastman House Collections: Haynes Photos; W.I. Marshall Photos; C.R. Savage Photos.

- Montana Historical Society: Haynes Foundation Collection.

- National Archives Photo Collections: V. Bailey Photos.

- National Park Service Washington Office Photo Library: G. Grant Photographs; J.A. Griswold Photographs; B.H. Thompson Photographs; G.M. Wright Photographs.

- Terence J. Hoverter College Archives at F. Franklin Moon Library, College of Environmental Science and Forestry, State University of New York, Syracuse: E.R. Warren Photos.

- United States Geological Survey Photographic Library: J.K. Hillers Photo Collection; J.P. Iddings Photo Collection; W.H. Jackson Photo Collection; T.A. Jaggar Photo Collection, W.T. Lee Photo Collection; C.D. Walcott Photo Collection.

- USDA National Agricultural Library, Special Collections: Forest Service Historical Photograph Collection.

- University of Arizona Libraries, Special Collections: W.S. Phillips Photos; Homer Shantz Photograph Collection.

- University of Montana, Mansfield Library, Archives and Special Collections: Bradley Family Papers, 1892-1968.

- University of Wyoming, American Heritage Center: S.N. Leek Papers, 1882-1946, Aven Nelson Papers, 1870-1983, Owen Wister Papers, circa 1866-1982.

- Wyoming State Archives: Stimson Collection.

BOX DESCRIPTIONS

Box Nbr	Title
01	**Mammoth, North Boundary, & North of Boundary, 1871-1960, 1970-1977, 1990-1992**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 01-05. Box 1 holds images taken in the northwestern corner of Yellowstone and a few images from the areas outside of the park around and north of Gardiner. Prominently featured locations include Mammoth, the Gardner River, Electric Peak, Mount Everts, and Devil's Slide. One of the prints from the Haynes collection shows several automobiles, including one owned by the Yellowstone Park Hotel Company. Prints found in this box were taken by Douglas B. Houston, U.S. Forest Service employees, U.S. Army Engineers, William J. (W.J.) Barmore, Walter Gammill, J.A. Griswold, J.E. Haynes, J.P. Iddings, W.H. Jackson, Willis Thomas (W.T.) Lee, W.S. Phillips, Homer L. (H.L.) Shantz, Milton P. (M.P.) Skinner, Ben H. (B.H.) Thompson, Charles Doolittle (C.D.) Walcott, and G.M. Wright. The historical photographs in this box were taken between 1871 and 1960. The work of Douglas Houston was taken in 1970-1971 and 1990-1992.

02	**Bunsen Pk, Golden Gate, Mammoth, & Blacktail, 1871-1933, 1970-1972, 1990-1992**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 06-09 & 44-47. Box 02 holds images from the northwest quarter of the park. It also holds images taken in the area referred to as the "Northern Winter Range." Locations prominently featured include the Mammoth and Blacktail Plateau areas. One historical print taken in 1903 by an unknown photographer features President Theodore Roosevelt and the army superintendent, both atop horses. Another print, taken by E.H. Train in circa 1875, shows what was likely an early bathhouse at Mammoth Hot Springs. Both Douglas B. Houston and Mary Meagher contributed prints found in this box. The photos by Meagher and Houston were taken in 1970-1972 and 1990-1992. Historical prints were taken by United States Army Engineers, W.J. Cribbs, Brooks F. (B.F.) Hoyt, W.I. Hutchinson, J.P. Iddings, Truman W. Ingersoll, W.H. Jackson, Carl Parcher (C.P.) Russell, H.L. Shantz, R. Smith, B.H. Thompson, and Edgar H. (E.H.) Train. The historical photographs in Box 02 were taken between 1871 and 1933.

03	**Norris, Gallatin Range, Gardner's Hole, Bunsen, & Golden Gate, 1871-1929, 1971-1974, 1990-1991**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 10-26. Box 03 holds images taken in the northwestern quarter of the park. Locations featured in the images found in this box

Box Nbr	Title
03 (cont'd)	**Norris, Gallatin Range, Gardner's Hole, Bunsen, & Golden Gate, 1871-1929, 1971-1974, 1990-1991** include Gardner's Hole, the Gallatin River and the Gallatin Range, Panther Creek, Bighorn Pass, Indian Creek, and Obsidian Cliff. A print of a 1905 photograph taken by F.J. Haynes features the herd and slaughterhouse of the Van Dyke and Deever cattle operation. Photographs by Mary Meagher and Douglas B. Houston can be found in this box. The photos of Meagher and Houston were taken in 1971-1974 and 1990-1991. Historical prints found in box 03 were taken by US Army Engineers, R.S. Coppess, F.J. Haynes, J.E. Haynes, B.F. Hoyt, J.P. Iddings, W.H. Jackson and C.P. Russell. The historical prints cover a period between 1871 and 1929.
04	**Norris, Madison, West, & NW Corner, 1885-1927, 1962, 1971-1974, 1990- 1991** Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 27-30. Images found in this box prominently feature the Madison River and the areas surrounding it on the western edge of the park. Historical prints in this box feature the Monida-Yellowstone Stage Co. horse pasture establishment site, the Norris soldier station, and the Packard which belonged to J.E. Haynes. Photos taken by Mary Meagher can be found in this box. She took the photos between 1971 and 1974 and in 1990. Historical prints were taken by US Army Engineers, M.F. Daum, F.J. Haynes, J.E. Haynes, Elliott W. (E.W.) Hunter, J.P. Iddings, W.H. Jackson, Charles D. (C.D.) Loughrey, R.K. MacDonald, Joseph E. (J.E.) Stimson, and W.W. Wickes. The historical prints were taken between 1885 and 1962.
05	**Firehole Cascades, Lower Geyser Basin, Midway Geyser Basin, & Black Sand, 1871-1914, 1971-1974, 1990** Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 31-36 & 38-39. Images found in this box were taken in the southwest quarter of the park. In addition to photos taken at the Lower and Middle Geyser Basins, this box includes images taken at the Upper Geyser Basin and Nez Perce Creek. Also found within this box is a copy of an F.J. Haynes photo taken circa 1886 of Marshall's Hotel at Fountain Flats, the first hotel built in the Firehole River geyser basins. Other historical prints in this box show the Fountain soldier station and the Fountain Hotel. Mary Meagher contributed prints found in this box. Meagher's prints were taken in 1971-1973 and 1990-1991. Historical prints were taken by U.S. Army Engineers, F.J. Haynes, J.K. Hillers, Layton A. Huffman, J.P. Iddings, W.H. Jackson, and W.W. Wickes. The historical prints were taken between 1871 and 1914.

Box Nbr	Title
06	**Upper Geyser Basin, 1871-1917, 1972-1973, 1990-1991**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 37, 40, and 41. Images found in this box were taken in and around the Upper Geyser Basin in the southwest quarter of the park. Some of the historical prints show early structures, including the Upper Geyser Basin Hotel, which was the first building to occupy the site of Old Faithful Inn. Original prints by Mary Meagher can be found in box 06. Mary Meagher's images were taken in 1972, 1973, 1990, and 1991. Historical prints were taken by U.S. Army Engineers, F.J. Haynes, J.E. Haynes, J.K. Hillers, T.W. Ingersoll, W.H. Jackson, William Isaac (W.I.) Marshall, Charles Roscoe (C.R.) Savage, Harry (H.) Shipler, and E.H. Train. The historical prints were taken between 1871 and 1917.

07	**Geode, Tower, Hellr., Rainy L., & Basalts, 1871-1943, 1970-1974, 1990**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 48-54 and 72-74. The images in this box were taken in the northern winter range and the eastern side of the park. Featured prominently are the Tower Junction and Tower Falls areas, Hellroaring Mountain and Creek, Elk Creek, and Specimen Ridge. Images of note within this box include prints of photos featuring glacial boulders taken by J.P. Iddings and prints that feature old structures, including farm buildings and pens. Prints by Mary Meagher and Douglas B. Houston can both be found in box 07. Mary Meagher and Douglas B. Houston's images were taken in 1970-1974 and 1990. The historical prints were taken by U.S. Army Engineers, U.S. Forest Service employees, F.J. Haynes, J.E. Haynes, J.P. Iddings, W.H. Jackson, Walter McDougall & Rudolf L. Grimm, H. Shipler, R. Smith, and Edward Royal (E.R.) Warren. The historical prints were taken between 1871 and 1943.

08	**Tower, NE, Meridian, Republic Pass & Creek, and Clark's Fork, 1871-1944, 1970-1974, 1990-1992**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 55-65. The Lamar River and Valley feature prominently in images in this box. Additionally, Soda Butte Creek, Slough Creek, Shoshone National Forest and the Beartooth Plateau are shown in images in box 08. Many historical prints in this box show wagons and creek side camps. Prints by Mary Meagher and Douglas B. Houston are both found in this box. The images by Mary Meagher and Douglas B. Houston were taken in 1970-1974 and 1990-1992. The historical prints were taken by U.S. Army Engineers, U.S. Forest Service employees, Brigadier General Alfred Eugene (A.E.) Bradley, F.L. (Nick) Carter, F. Childs, J.P. Iddings, W.H. Jackson, Aven (A.)

Box Nbr	Title
08 (cont'd)	**Tower, NE, Meridian, Republic Pass & Creek, and Clark's Fork, 1871-1944, 1970-1974, 1990-1992** Nelson, and E.R. Warren. The historical prints were taken between 1871 and 1944.
09	**Upper Lamar, Shoshone, Isa L., Bechler, Lewis R., and Witch Cr., 1871-1940, 1972-1973, 1990-1992** Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 42, 43, 66-71, and 92. Images in this box show locations in the northern winter range and the southwest quarter of the park. Images from the southeast quarter, or the Thorofare, are also found in box 09. In addition to those areas named in the box's label, Cache Creek, Parker Peak, and Miller Creek are featured. Both Mary Meagher and Douglas B. Houston took images that are found in box 09. Meagher and Houston's prints were taken in 1972, 1973, and 1990-1992. The historical prints were taken by U.S. Army Engineers, George (G.) Baggley, Henry Bird (H.B.) Calfee, F.J. Hayes, J.E. Haynes, J.P. Iddings, W.H. Jackson, and Joseph (J.) Joffe. The historical prints were taken between 1871 and 1940.
10	**Antelope Cr., Washburn, Hayden Valley, and Mud Volcano Area, 1871-1932, 1971-1975, 1990-1992** Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 75-84. The locations in the prints in box 10 are in the eastern side of the park. Mary Meagher and Douglas B. Houston both took prints that appear in this box. The prints from Meagher and Houston were taken in 1971-1975 and 1990-1992. The historical prints were taken by U.S. Army Engineers, R.S. Coppess, George A. (G.) Grant, F.J. Haynes, B.F. Hoyt, E.W. Hunter, W.H. Jackson, and C.D. Walcott. The historical prints were taken between 1871 and 1932.
11	**Lake Area, Pelican Valley, Mirror, E. Entrance Road, and Castle Dome, 1871-1939, 1971-1973, 1990-1992** Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 85-91. Images in this box feature locations in the eastern side of the park. Both Mary Meagher and Douglas B. Houston took photographs that can be found in box 11. Additionally, a photo taken by Kerry Gunther is used for comparative analysis. Meagher and Houston's photos were taken in 1971-1973 and 1990-1992. Kerry Gunther's image was taken in 1992. The historical prints were taken by Bureau of Public Roads employees, U.S. Army Engineers, G. Baggley, G. Christensen, F.J. Haynes, J.E. Haynes, W.I. Hutchinson, J.P. Iddings, W.H. Jackson, and G.M. Wright. The historical photos were taken between 1871 and 1939.

Box Nbr	Title
12	**Overlook Mt., S. Bdry, Thorofare Corner, Langford Cairn, and South of Park, 1871-1935, 1968-1974, 1990-1992**

Plates featured in *Yellowstone and the Biology of Time* that can be found in this box are nos. 93-100. Locations featured in images in box 12 were taken in the southeast corner of the park, also known as the Thorofare, and outside the southern park boundary. Outside of the park, photos were taken in Bridger-Teton National Forest and Hoback Canyon. Significantly, many of the later, comparative photos that feature locations outside of the park were taken from 1968 to 1970 by George Gruell. Mary Meagher and Douglas B. Houston also took photos that are found in box 12. The photos by Meagher and Houston were taken in 1972-1974 and 1990-1992. Historical prints were taken by G. Baggley, Vernon (V.) Bailey, G. Christensen, J.E. Haynes, J.P. Iddings, W.H. Jackson, Thomas A. (T.A.) Jaggar, Stephen (S.) Leek, William (W.) Rush, and Owen (O.) Wister. The historical prints were taken between 1871 and 1935.

13	**Mary Meagher Prints, 1990-1991**

This box contains unmounted photos taken by Mary Meagher in the early 1990s. These photos were originally found in a folder on top of the mounted sheets in box 1. Given the dates of their creation, locations featured, and original folder location, it is likely these photos were originals taken for, but unused in, the Rephotography Project. Locations featured in these images include the Snake River, the Parker Peak Trail, Pelican Valley, and the Upper Lamar Valley.