

EXAMPLE ANNOTATED BIBLIOGRAPHY

References

Eaton, G. P., R. L. Christiansen, H. M. Iyer, A. D. Pitt, D. R. Mabey, H. R. Blank Jr., I. Zietz, and M. E. Gettings. 1975. "Magma Beneath Yellowstone National Park." *Science* 188 (4190): 787–796. <https://doi.org/10.1126/science.188.4190.787>.

- Provided the first geophysical evidence of a **large crustal magma chamber** beneath Yellowstone using **seismic, magnetic, and gravity data**.
- Estimated the magma body to be **low-density and partially molten**, influencing surface geothermal activity.
Introduced **geophysical modeling** techniques still foundational to modern caldera research.
- Emphasized the **tectonic context** of Yellowstone within the North American plate and hotspot theory.
- Paved the way for future **interdisciplinary volcanic hazard studies** in the region.

Fournier, R. O. 1989. "Geochemistry and Dynamics of the Yellowstone National Park Hydrothermal System." *Annual Review of Earth and Planetary Sciences* 17: 13–53. <https://doi.org/10.1146/annurev.earth.17.050189.000305>.

- Comprehensive review of the **hydrothermal geochemistry** of Yellowstone's geysers, springs, and fumaroles.
- Detailed the role of **magmatic gases and water-rock interaction** in controlling thermal water chemistry.
- Proposed models for the **origin, evolution, and circulation patterns** of hydrothermal fluids.
- Linked **surface features to deep magmatic processes**, offering geochemical evidence for subsurface magma.
- Served as a reference framework for monitoring **changes in hydrothermal activity and volcanic unrest**.

Hague, A., J. P. Iddings, W. H. Weed, C. D. Walcott, G. H. Girty, T. W. Stanton, and F. H. Knowlton. 1899. *Geology of the Yellowstone National Park. Part II: Descriptive Geology, Petrography, and Paleontology*. U.S. Geological Survey Monograph 32. Washington, D.C.: U.S. Government Printing Office.

- A foundational monograph providing the **first systematic geological mapping and petrography** of Yellowstone.
- Described the **volcanic stratigraphy**, including identification of major tuff and lava formations.
- Included paleontological findings that aided in **age dating and environmental reconstruction**.

- Characterized Yellowstone's **igneous rock types**, establishing early classification of rhyolites and basalts.
- Remains a **historic benchmark** for all subsequent geological surveys in the park.

Keefer, W. R. 1971. *The Geologic Story of Yellowstone National Park*. U.S. Geological Survey Bulletin 1347. Washington, D.C.: U.S. Government Printing Office.

- An accessible yet scientifically grounded overview of Yellowstone's **geological history and evolution**.
- Highlighted the **caldera-forming eruptions** and their regional impact.
- Explained Yellowstone's position as a **continental hotspot** and its role in the Snake River Plain's volcanic activity.
- Served as a **public education resource**, widely cited in interpretive and scientific literature.
- Included diagrams and maps that were influential in **early geological education and outreach**.

Love, J. D., and W. R. Keefer. 1975. *Geology of Sedimentary Rocks in Southern Yellowstone National Park, Wyoming*. U.S. Geological Survey Professional Paper 729-D. Washington, D.C.: U.S. Government Printing Office.

- Focused on the **pre-volcanic sedimentary record**, offering a deep-time perspective on the Yellowstone area.
- Documented **stratigraphy, lithofacies, and fossil content** of Paleozoic and Mesozoic rocks.
- Interpreted depositional environments ranging from **shallow marine to terrestrial**.
- Provided constraints on the **structural framework** underlying the volcanic rocks.
- Crucial for understanding **tectonic inheritance and crustal architecture** prior to the Yellowstone hotspot activity.

Morgan, L. A., ed. 2007. *Integrated Geoscience Studies in the Greater Yellowstone Area—Volcanic, Tectonic, and Hydrothermal Processes in the Yellowstone Geocosystem*. U.S. Geological Survey Professional Paper 1717. Reston, VA: U.S. Geological Survey.

Ruppel, E. T. 1972. *Geology of Pre-Tertiary Rocks in the Northern Part of Yellowstone National Park, Wyoming*. U.S. Geological Survey Professional Paper 729-A. Washington, D.C.: U.S. Government Printing Office.

Smith, R. B., and L. W. Braile. 1994. "The Yellowstone Hotspot." *Journal of Volcanology and Geothermal Research* 61: 121–187. [https://doi.org/10.1016/0377-0273\(94\)00052-R](https://doi.org/10.1016/0377-0273(94)00052-R).

White, D. E., R. A. Hutchinson, and T. E. C. Keith. 1988. *The Geology and Remarkable Thermal Activity of Norris Geyser Basin, Yellowstone National Park, Wyoming*. U.S. Geological Survey Professional Paper 1456. Washington, D.C.: U.S. Government Printing Office.

Wicks, C., W. Thatcher, D. Dzurisin, and J. Svarc. 2006. "Uplift, Thermal Unrest, and Magma Intrusion at Yellowstone Caldera." *Nature* 440: 72–75. <https://doi.org/10.1038/nature04507>.