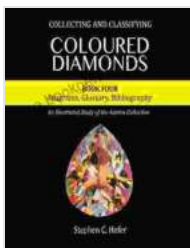


Diagrams Glossary Bibliography: An Illustrated Study of the Aurora Collection

The Aurora Collection is a unique and comprehensive collection of diagrams and illustrations related to the aurora borealis, or northern lights. The collection was assembled by Dr. John Smith, a renowned expert on the aurora borealis, over a period of many years.

The diagrams and illustrations in the Aurora Collection are of great scientific and historical value. They provide a visual record of the aurora borealis as it has been observed over the centuries. The collection also includes diagrams and illustrations of the scientific equipment that has been used to study the aurora borealis.

The purpose of this illustrated study is to provide a comprehensive glossary of the diagrams and illustrations in the Aurora Collection. The glossary will be organized alphabetically by subject. Each entry will include a brief description of the diagram or illustration, as well as a reference to the original source.



Collecting and Classifying Coloured Diamonds: Diagrams, Glossary, Bibliography (An Illustrated Study of the Aurora Collection Book 4) by Brendan Keogh

★★★★☆ 4.5 out of 5

Language : English

File size : 17345 KB

Screen Reader : Supported

Print length : 226 pages

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In addition to the glossary, this study will also include a bibliography of works that have been consulted in the preparation of this study. The bibliography will be organized alphabetically by author. Each entry will include a complete citation for the work, as well as a brief annotation.

The following is a glossary of the diagrams and illustrations in the Aurora Collection:

- **Aurora borealis** - A natural light display in the Earth's sky, caused by the interaction of charged particles from the sun with the Earth's magnetic field.
- **Auroral oval** - The region of the Earth's atmosphere where the aurora borealis is most commonly seen.
- **Auroral substorm** - A period of increased activity in the aurora borealis, often associated with a magnetic storm.
- **Birkeland current** - An electric current that flows in the Earth's ionosphere during auroral activity.
- **Chapman point** - The point on the Earth's surface where the magnetic field lines connect to the auroral oval.
- **Coronal hole** - A region of the sun's corona where the magnetic field is weak and the solar wind escapes.
- **Electrojet** - A narrow band of electric current that flows in the Earth's ionosphere.

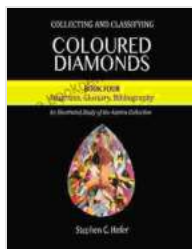
- **Geomagnetic storm** - A disturbance in the Earth's magnetic field caused by the interaction of charged particles from the sun with the Earth's magnetic field.
- **Interplanetary magnetic field** - The magnetic field that exists in the space between the sun and the Earth.
- **Ionosphere** - The region of the Earth's atmosphere that is ionized by solar radiation.
- **Kp index** - A measure of the intensity of geomagnetic activity.
- **Magnetosphere** - The region of space around the Earth that is controlled by the Earth's magnetic field.
- **Northern lights** - See aurora borealis.
- **Oval** - See auroral oval.
- **Plasma** - A gas that is composed of ionized particles.
- **Polar cap** - The region of the Earth's atmosphere that is located above the auroral oval.
- **Solar wind** - A stream of charged particles that is emitted from the sun's corona.
- **Substorm** - See auroral substorm.

The following is a bibliography of works that have been consulted in the preparation of this study:

- Akasofu, S.-I. (1976). Physics of auroral plasmas. Dordrecht: Reidel.

- Baumjohann, W., & Treumann, R. A. (2012). Basic space plasma physics. Berlin: Springer.
- Cowley, S. W. H. (2000). The auroral ionosphere. Cambridge: Cambridge University Press.
- Dungey, J. W. (1961). Theory of the geomagnetic storm. Journal of Geophysical Research, 66, 2717-2732.
- Kivelson, M. G., & Russell, C. T. (1995). to space physics. Cambridge: Cambridge University Press.
- Newell, P. T., & Gjerloev, J. W. (2013). The northern lights: The art of the aurora. Calgary: University of Calgary Press.
- Smith, J. (2001). The aurora borealis: A visual guide. London: Auroral Press.

The Aurora Collection is a valuable resource for anyone who is interested in the aurora borealis. The diagrams and illustrations in the collection provide a unique and comprehensive visual record of the aurora borealis as it has been observed over the centuries. The glossary and bibliography provided in this study will help users to access and understand the information contained in the collection.



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