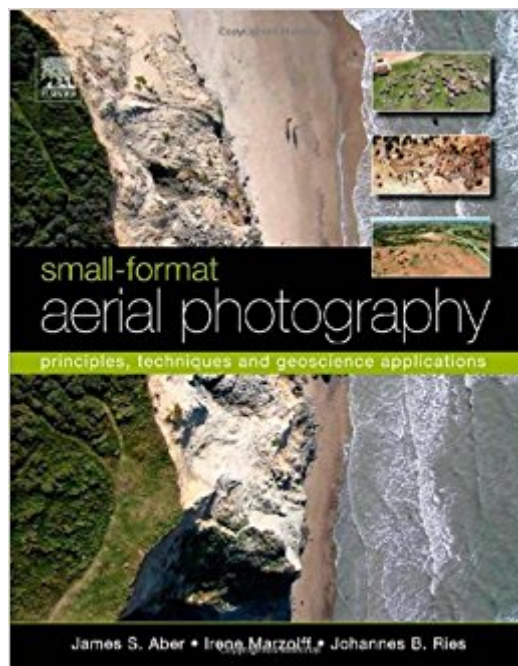




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Small-Format Aerial Photography: Principles, Techniques And Geoscience Applications



Synopsis

As the need for geographical data rapidly expands in the 21st century, so too do applications of small-format aerial photography for a wide range of scientific, commercial and governmental purposes. Small-format Aerial Photography (SFAP) presents basic and advanced principles and techniques with an emphasis on digital cameras. Unmanned platforms are described in considerable detail, including kites, helium and hot-air blimps, model airplanes, and paragliders. Several case studies, primarily drawn from the geosciences, are presented to demonstrate how SFAP is actually used in various applications. Many of these integrate SFAP with ground-based investigations as well as conventional large-format aerial photography, satellite imagery, and other kinds of geographic information. Full-color photographs throughout Case studies from around the globe Techniques presented allow for image resolution impossible to match via traditional aerial photography or satellite datasets Glossary clarifies key terms

Book Information

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Customer Reviews

Small Format Aerial Photography is one of those niche areas for taking pictures from above to map our landscape. Traditionally, large format aerial cameras were used with 9" x 9" camera film to take vertical view of the landscape. For small format aerial cameras, this means using 35 and 70mm film camera systems. For many decades, USDA was one of the largest organizations that acquired small format aerial photos over farm fields every year. With the evolution from film to digital in the last 10 years, the authors managed to update and make the transition from analog film to digital

small format camera systems for imaging and mapping our landscapes at an affordable cost. They showcase many platforms and approaches for using small format systems. Even more importantly, with the advent of Unmanned Aerial Systems (UAS) being used around the world today, this is opening up an entirely new market and approach to capture the aerial view. No longer does the end user need to wait for clouds that get in the way, or months for film to be developed or wait for days when the next satellite overpass might happen...that is if it is cloud free. The resource manager can hop out of their vehicle and launch their own small format system on a UAS.

b hubertyco-chair, First North American Symposium on Small Format Aerial Photography

This is an excellent overview of small format aerial photography for anyone seeking general information on what is necessary for this field. Although the book delivered all that it promised, I would like to have had a better view into the business aspects of aerial photography. All of the information in this book is thoroughly explained in clear language. I am enjoying it. I believe I will continue to enjoy it on rereading each area. I am well satisfied that this is an excellent purchase for general information on an interesting field.

Very good approach. Best value for money.

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