Google Drive



Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651)

Dr. Alfred S. McLaren

Download now

Click here if your download doesn"t start automatically

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651)

Dr. Alfred S. McLaren

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) Dr. Alfred S. McLaren
Charting the Siberian continental shelf during the height of the Cold War
This book tells the story of the brave officers and men of the nuclear attack submarine USS *Queenfish (SSN-651),* who made the first survey of an extremely important and remote region of the Artic Ocean. The unpredictability of deep-draft sea ice, shallow water, and possible Soviet discovery, all played a dramatic part in this fascinating 1970 voyage.

Covering 3100 miles over a period of some 20 days at a laborious average speed of 6.5 knots or less, the attack submarine carefully threaded its way through innumerable underwater canyons of ice and over irregular seafloors, at one point becoming entrapped in an "ice garage." Only cool thinking and skillful maneuvering of the nearly 5,000-ton vessel enabled a successful exit. The most hazardous phase of the journey began 240 nautical miles south of the North Pole with a detailed hydrographic survey of an almost totally uncharted Siberian shelf, from the northwestern corner of the heavily glaciated Severnaya Zemlya Archipelago to the Bering Strait via the shallow, thickly-ice-covered Laptev, East Siberian, and Chukchi seas.

The skipper of the Queenfish had been trained and selected by Admiral Hyman Rickover and, inspired by this polar experience, McLaren became one of the world’s foremost Arctic scientists, studying first at Cambridge University and then obtaining his doctorate in physical geography of the Polar Regions from the University of Colorado at Boulder.

Download Unknown Waters: A First-Hand Account of the Histor ...pdf

Read Online Unknown Waters: A First-Hand Account of the Hist ...pdf

Download and Read Free Online Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) Dr. Alfred S. McLaren

---

From reader reviews:

Lisa Shumaker:

The book Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) will bring you to the new experience of reading a book. The author style to elucidate the idea is very unique. In case you try to find new book to learn, this book very appropriate to you. The book Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) is much recommended to you to learn. You can also get the e-book from the official web site, so you can more readily to read the book.

Frederick Avelar:

Do you have something that you want such as book? The book lovers usually prefer to select book like comic, limited story and the biggest the first is novel. Now, why not striving Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) that give your pleasure preference will be satisfied simply by reading this book. Reading practice all over the world can be said as the way for people to know world considerably better then how they react in the direction of the world. It can't be explained constantly that reading behavior only for the geeky individual but for all of you who wants to always be success person. So , for all you who want to start examining as your good habit, you can pick Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) become your personal starter.

Denita Lumley:

Do you like reading a publication? Confuse to looking for your favorite book? Or your book had been rare? Why so many question for the book? But just about any people feel that they enjoy intended for reading. Some people likes reading through, not only science book and also novel and Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) or perhaps others sources were given expertise for you. After you know how the truly amazing a book, you feel would like to read more and more. Science publication was created for teacher or perhaps students especially. Those books are helping them to bring their knowledge. In some other case, beside science e-book, any other book likes Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) to make your spare time more colorful. Many types of book like this.

Julio Canfield:

Reading a book make you to get more knowledge from this. You can take knowledge and information coming from a book. Book is published or printed or illustrated from each source that will filled update of news. Within this modern era like today, many ways to get information are available for an individual. From media social such as newspaper, magazines, science reserve, encyclopedia, reference book, new and comic.

You can add your understanding by that book. Are you ready to spend your spare time to open your book? Or just searching for the Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) when you needed it?

Download and Read Online Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) Dr. Alfred S. McLaren #701VDQFCJNG

Read Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren for online ebook

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren books to read online.

Online Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren ebook PDF download

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren Doc

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren Mobipocket

Unknown Waters: A First-Hand Account of the Historic Under-ice Survey of the Siberian Continental Shelf by USS Queenfish (SSN-651) by Dr. Alfred S. McLaren EPub