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Title: NAVY'S "ATLAS OF THE OCEANS" DESERVES STATE PRIZE NOMINATION

Primary source: Zarya Vostoka, August 5, 1980, No. 180 (16756), p. 3, cols. 7-8

Extract: "Atlas of the Oceans" -- this two-volume set, which was compiled by the USSR Ministry of Defense and the Navy, may boldly be called an epochal cartographic work. It was developed by a collective of numerous authors, involving the collaboration of many scientific and scientific-technical institutions and agencies under the direction and with the direct participation of admirals S. Gorshkov, V. Alekseyev and A. Rassokho, Captain 1st Rank V. Fadeyev, corresponding member of the USSR Academy of Sciences A. Monin, Doctor of Technical Sciences, Prof. K. Salishchev, Doctor of Geological-Mineralogical Sciences, Prof. G. Gorshkov, Doctor of Geographic Sciences, Prof. A. Muromtsev, Doctor of Geographic Sciences, Prof. Kh. Pogosyan, and L. Lukanova, M. Seregin and Ye. Chechulina.

The systematic mapping of the oceans that culminated in the two-volume "Atlas of the Oceans" has revealed for science a multitude of previously unknown laws governing the spatial relationships that are constantly taking form in the world's oceans in connection with the unique processes that are occurring through the interplay of energy, matter and information in four subsystems -- lithosphere, atmosphere, hydrosphere and biosphere, and also within each of them. Chapters of the atlas are correspondingly devoted to these subsystems.

The publication of the "Atlas of the Oceans" represents an important event in the life of science. Here the method of scientific modeling presents extensive opportunities to a broad circle of scientists to draw out more and more knowledge about our planet, and it opens the way for further investigations on new scientific levels. It is therefore not a matter of chance that this unique scientific labor has been nominated for the USSR State Prize in the field of science.

Title: SOLAR PHYSICS RESEARCH AT SAYAN MOUNTAIN OBSERVATORY

Primary source: Komsomol'skaya pravda, August 16, 1980, No. 189 (16895), p. 4, cols. 2-5

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Entire text: The solar observatory of the Siberian Institute of Earth Magnetism, the Ionosphere and the Propagation of Radio Waves of the USSR Academy of Sciences' Siberian Branch (SO) is located high in the Eastern Sayan Mountains. Scientists have installed highly complex equipment and built a small city for the high-altitude solar expedition's work and life among craggy peaks and snowy summits.

The sun is observed closely through the lenses of large non-eclipse coronagraphs; the mirrors of horizontal solar telescopes turn in obedience to commands. The elevation is 2000 meters! Not many similar observatories are to be found in the country. The Siberian scientists are pursuing work for the study of solar physics here. A particularly large amount of work is now being done in accordance with the international program "Solar Maximum Year".

The study of the sun and processes connected with changes in its activity will help to predict the behavior of our star in advance. And data obtained at the observatory are now being used for more than just basic research.

(A photograph is given showing two mountain observatories.)

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