

Balloon To Probe Belt With Radio Waves

A large tethered balloon marked by flashing lights will soon be seen rising to 7,000 feet above Ft. Richardson. The balloon will be used by scientists of the Aerospace Corporation in El Segundo, Calif., to hold up an antenna cable that they will use to transmit very-low-frequency radio waves to New Zealand.

The balloon will be flown

within the Restricted Airspace (R-2203B) north of Bryant Field between Aug. 1 and Sept. 30, 1973. Operations will principally occur at night but will occasionally take place in daylight as well.

The balloon contains 37,000 cubic feet of Helium and is 40 feet in diameter.

Because of corona limitations

at high voltage, the antenna cable extending from the balloon to the surface cannot be marked or lighted and therefore will be invisible to pilots.

However, the balloon will be illuminated by a strobe light attached to the balloon. The surface of the ground at the winch site for the antenna cable will also be marked by strobe lights.

Although unauthorized flight within Restricted Area R-2203B is contrary to Federal Aviation Regulations, pilots are specifically cautioned to remain clear of the restricted airspace due to the unseen antenna cable.

This unique antenna will be used to send very-low-frequency radio waves to radio receivers in New Zealand and on Campbell Island south of New Zealand. These signals will travel along the lines of the earth's magnetic field crossing the equator 10,000 miles above the earth's surface.

At this altitude, the radio waves are traveling through the Van Allen radiation belt. This belt, discovered by the first artificial earth satellite, is populated by high energy particles trapped by the earth's magnetic field.

Scientists will be studying the interactions between the radio waves and the high energy particles. It is believed that the intensity of the signals received in New Zealand will be greatly increased by this interaction.

The high energy particles amplify the radio waves. With a

controlled experiment of the type being undertaken at Ft. Richardson, the interaction between the waves and particles can be studied in a systematic manner.

Eventually, these measurements might be performed using an artificial satellite or a large permanent ground-based transmitter. It is less costly to perform exploratory work with the mobile ground-based transmitter that will be used at Ft. Richardson.

This is a part of a continuing effort by scientists of the Space Physics Laboratory of the Aerospace Corporation to study the near space environment.

Similar measurements were made in August 1972 at Port Heiden, Alaska, notorious for its stormy weather. Balloons used at Port Heiden were unable to survive storms with wind velocities of 35 knots. It is hoped that the better weather at Anchorage will allow many more balloon flights this summer.

Information obtained from this series of experiments will increase man's understanding of the space environment and lead to technological advances in communications at very-low-frequencies.

LEGAL NOTICE

INVITATION FOR BIDS
STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

Sealed bids in single copy for furnishing all labor, materials and equipment, and performing all work on Project G-10729, Lake Nunavauvaluk Access Road described herein, will be received until 2:00 p.m., prevailing time, August 9, 1973 in the Commissioner's Office, Department of Highways, Island Center Building, Douglas, Alaska.

This project will consist of furnishing, operating, maintaining, servicing, and superintending crawler tractors, on an hourly basis, for approximately four weeks, and furnishing and installing pipe culverts.

Principal items of work consist of the following: 200 hours each — two crawler tractors with hydraulic blades, 270 HP minimum (one with winch, one with ripper); 100 hours — one crawler tractor with hydraulic blade, 120 HP minimum, mobilization, lump sum, all required; 60 linear feet of 18" pipe conduit; 242 linear feet of 24" pipe conduit; and 48 linear feet of 36" pipe conduit.

All work shall be completed in 40 Calendar days. Plans and specifications may be obtained by all who have a bona fide need for them for bidding purposes from the Chief Design Engineer, P. O. Box 1467, Juneau, Alaska 99801 at a charge of \$10.00 for each assembly. Plans may be examined at Department of Highway Offices in Anchorage, Fairbanks, Valdez.

B. A. Campbell
Commissioner of Highways

Publish July 25, 1973.

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LEGAL NOTICE

IN THE SUPERIOR COURT
FOR THE STATE OF ALASKA
FOURTH JUDICIAL DISTRICT

CAROL ANNE EISENZIMMER,)
Plaintiff,)
vs.)
LARRY EISENZIMMER,)
Defendant.)

No. 73-503

NOTICE TO ABSENT DEFENDANT

TO: LARRY EISENZIMMER

You, Defendant in the above action, are hereby summoned and required to serve upon MARLIN D. SMITH, Plaintiff's attorney, whose address is 510 2nd Ave., Suite 230, Fairbanks, Alaska 99701, an answer to the Complaint for Divorce filed in the above civil action in this Court. If you fail to do so within thirty (30) days after the date of last publication, judgment by default may be rendered against you for the relief demanded by Plaintiff.

This is an action for divorce. The relief demanded is an absolute decree of divorce.

You have been made a party to this action because you are the husband of Plaintiff.

DATED: July 11, 1973

OLGA T. STEGER, Clerk

BY: Deborah McConnell
DEPUTY CLERK

Publish July 18, 25, August 1, and 8, 1973.

Publish July 25, 1973.

Stevens Pushing For Canal To Link Yukon-Kuskokwim

WASHINGTON — Funds for study of a canal linking the Kuskokwim and Yukon rivers — thus providing a deep-water seaport for the Yukon valley area — will be included in the Senate Appropriations Committee's fiscal 1974 funding bill, Sen. Ted Stevens says.

The senator, a member of the committee, said the panel approved \$40,000 for the first phase of an Army Corps of Engineers study of the canal in a markup session July 19.

"The development of Western Alaska requires full utilization of the deep-water seaport located at Bethel on the Kuskokwim River," Stevens said. "Since the Yukon River has no seaport at its mouth, construction of the Yukon-Kuskokwim Canal would stimulate the economy of Alaska

by making products and resources of the Yukon and Kuskokwim river valleys available to world markets."

Because there is no Yukon mouth seaport, Stevens said, products from the Yukon valley and surrounding area have been unable to compete with those from Siberia — which have access to sea-going vessels — for world markets, especially Japan, which has shown keen interest in Alaskan resources.

A resolution adopted by the 1973 Alaska Legislature urged federal funding for the study.

"Construction of this canal will be a great benefit to the Yukon Valley area," Stevens said. "This initial allotment for study of the project is the first step toward that goal."



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