

Astronomers To Make Moon Maps For Astronauts

Paris (Science Service) - French astronomers, working with English specialists, are planning to make a "tourist" map of the moon, in order to supply astronauts who land on the earth's satellite with a detailed guide.

A complete new set of moon photographs will be taken to make up this selenographic map, because the scale of existing pictures is too small. In addition, existing photographs do not fit together very well, since most of them have been taken by individual and isolated photographers. The new photographs will be taken at the observatory on the Pic du Midi de Bigorre, in the Pyrenees.

The final map of the entire moon will have the form of a circle 11.8 feet in diameter, which will be divided into sheets for more convenient handling.

Building Scope

Because of the 200-inch U.S. telescope at Mount Palomar in California is more suitable for the study of distant stars, French scientists are building their own telescopes.

Extraordinary photographs of Mars, taken from the Pic du Midi by astronomers with a 15-inch lens, have shown what can be done. The unusual quality of the Mars photographs was due to the method of using superimposed pictures snapped at short intervals. In this way it was possible to eliminate the difficulties caused by the earth's atmosphere, which varies from one instant to the next.

The new telescope will be 39.4 inches in diameter. It will be capable of magnifying objects 1,500 times and will, optically speaking, bring the moon to a distance of 155 miles from the earth, making it possible to pick out objects measuring 1,000 feet.

About a hundred large-scale photographs will be needed to cover the whole moon. Several photographs will be made of the same area, using different lighting, to take advantage of the oblique light that throws objects into relief.

From these photographs, map-makers will put together a detailed map. To indicate the relief, the modern system of "level curves" will be used. These will be so precise that, if desired, they could be used for the building of dams on the moon.



SEEDLING EXAMINED-Seedling reaping from forest floor, examined here by Glen Duysen, forester for Kogap Manufacturing company, Medford, is one of swarms of young trees bursting forth on the company's 1,800-acre Tiller Tree Farm. (American Forest Products Industries photo)

Loggers Have Steady Job in Harvesting Farm's Cull Logs

An amazing story which spotlights the growing ability of southern Oregon's forest industries to make useful products out of low-grade wood is unfolding along the Tiller-Trail divide.

Two loggers there have made steady jobs for themselves and others for nearly a decade by salvaging logs

that were once thought to be useless.

The men are Bud LeRoy of Central Point and Gil Bonney of Drew. Their small outfit, Hoot Owl Logging company, is taking as much as 18,000 board feet daily out of cutover lands on the 1,800-acre Tiller Tree Farm of Med-

ford's Kogap Manufacturing company.

Stretching Timber Supply

The salvage operation has not only provided steady employment for LeRoy and Bonney over the years, but is putting the tree farm into top growing condition and stretching its current timber supply.

The timber in which the salvage loggers are working is on the north slope of the divide at elevations ranging from 2,200 to 4,500 feet. A sawmill was operated at the site by Kogap until 1940. Virgin timber still remains in two areas of the tree farm.

"Much of the old-growth timber originally harvested in here was overmature and defective," says Glen Duysen, Kogap forester. "Many cunky logs were left in the woods as culls. But we've made such tremendous strides in our ability to turn this low-grade wood into useful products since that time that many of these logs are now merchantable as 'peelable culls.'"

Duysen cited as an example the development of a technique whereby industry can now utilize logs shot

through with white speck-a fungus disease - for inner plys in construction-grade plywood.

Keeps Access Roads

The salvage operation, underway since before 1952, makes it possible for Kogap to "stay current" with pickup of dead and dying timber and thus avoid letting such logs go to waste. It also keeps the company's access road system in good condition for fire protection.

"There were about 10 snags to the acre when the salvage work got under way," said Duysen, "and we're getting them down under the program at the rate of about one snag for every 1,000 board-feet of merchantable salvage material."

The forester pointed out that removal of snags is re-

ducing fire hazards for the bursting new young growth which is beginning to throw a green blanket over the tree farm.

"Give us a few more years' work in here," he said, "and this land will be entirely restocked with a healthy young forest."



LOGS CULL - Salvage logging for nearly a decade on the 1,800-acre Tiller Tree Farm of Kogap Manufacturing company, Medford, has provided jobs for two contract loggers shown here, Gil Bonney (on tractor) of Drew and Bud LeRoy of Central Point. Growing industry ability to utilize low-grade wood through salvage call logs into useful material. (American Forest Products Industries photo)

Big Machine Gun Found in Attic

Buffalo, N.Y. - A hefty four-foot long machine gun was turned over to police by an unidentified man who said he was surprised to find it in his attic.

Equally surprising police said the World War I weapon was the first such surrender for disposal in the city under the state amnesty law. The law permits persons with firearms to turn them over to authorities without penalty.

The owner of the 7.62 mm water-cooled spandau machine gun found it wrapped in yellowed newspaper in a cob-web coated box, he said.

The weapon was brought from Germany in a war souvenir by an uncle who apparently put it in the attic without telling anyone. The uncle recently died.

The machine gun was destined for a watery grave in Lake Erie along with other firearms surrendered.

Memphis, Tenn. - Reuben B. Brown, 34, was granted an unconditional divorce. He said he was tired of waiting for her to return.

Kennedy To Face Stiff Test Over Federal Aid to Education Program

By LOUIS CASSELL
UPI Correspondent

President-elect John F. Kennedy faces a stiff test of his leadership in persuading Congress to enact a broad program of federal aid to education.

Kennedy has said he will give high priority to education in the legislative program which he will present to the new Congress shortly after he is inaugurated in January.

He has already sketched the main outlines of the program which he considers essential to "national survival."

Includes Federal Grants

It includes "substantial" federal grants - probably on the order of one billion dol-

lars a year - which states may use at their own discretion for classroom construction or teachers salaries.

Kennedy also will support a greatly expanded program of federal loans and scholarships for college students. And he probably will propose long-term, low interest federal loans to colleges for construction of classroom buildings and laboratories. Such loans are now available only for dormitories.

The Democratic piggy bank endorses all of these proposals. But that doesn't mean that Kennedy will have an easy time getting them through the Democratic controlled 86th Congress.

On issues like aid to education, Congress does not divide along neat party lines. The real battle is between a liberal bloc, which includes many northern Democrats and some Republicans.

In the last session of Congress, the liberals prevailed in the Senate. It passed 51 to 34 a bill sponsored by Kennedy to provide federal grants for classroom construction and teachers' salaries.

The House passed a bill providing funds for classroom construction only, and added a requirement that states match federal grants dollar for dollar. The House rules committee, dominated by the conservative coalition, then refused to let a Senate-House conference committee work out a compromise between the two versions. That effectively killed the legislation.

Senate Panel Cautious

Dynamiing this roadblock in the House rules committee will be one of the first challenges confronting Kennedy if he hopes to get action on his education bill or other liberal measures in his program.

Democratic leaders are reported to be considering dropping from rules committee membership Rep. William Colmer of Mississippi, a southern Democrat who refused to support the party's ticket in the 1958 election. Replacement of Colmer could give liberal Democrats a 7 to 5 majority over the Republican-Democratic coalition in the rules committee.

That might insure getting an education bill to the House floor. But the fight would not be over.

The National Education Association has analyzed the voting records of incumbent

congressmen who will be returning to the House next January. He says about 100 of those voted for the school aid bill last year - 100 voted against it.

This indicates that widely elected Republicans will head the balance of power in the House. And many of those are conservative Republicans and southern Democrats.

Kennedy is on record as believing that a president should be prepared to fight and fight hard - for passage of legislation which he considers vital to the nation's welfare.

The aid to education issue seems likely to give him an opportunity to demonstrate what he meant.

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African Changes Keep Mappers Busy

Philadelphia - UPI - Today's map makers can be reasonably sure that Africa's rivers, mountains and oceans will not change-but not so its political boundaries.

That's the problem of Aero Service Co. of Philadelphia which plans to market a large, elaborate relief map of the continent by the first of the year.

Aerographer Arnold Kreisman said the map will show every known mountain, river, important settlement and political boundary.

But will it? New nations sprout so quickly that cartographers are in a whirl.

"We have to be avid newspaper readers to see if yesterday's work is still good," Kreisman said.

He said his company not only must check on the latest changes in all small details including names of settlements, but must take chances by anticipating the formation of new states and their capitals.

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