

Florida burrowing owl, the peregrine falcon, the red-bellied hawk, Kirtland's warbler and the Cape Sable seaside sparrow.

The Great Lakes whitefish, the American crocodile and the green turtle may be passing away forever.

Conservationists are confident that with concerted public and governmental action many of these animals can be saved. Some, however unfortunate, are beyond help.

The National Wildlife Federation has outlined eight courses of action to help save the nation's endangered wildlife. They call for:

1. The promotion of coordinated research to determine the best restoration methods.
2. The enforcement of Federal and state laws of protection.
3. Halting deliberate and accidental slaughter of endangered wildlife.
4. Establishment of comprehensive use policies at the national, state and local levels for protection dependent on development of other natural resources.
5. The initiation of more public education campaigns.
6. The protection from encroachment of established state, Federal and private sanctuaries, forests, parks and refuges.
7. Effective pollution control.
8. Support for the International Union for the Protection of Nature in Brussels, Belgium.

Science News Letter, March 31, 1956

MEDICINE

Devise New Drugs for Blood Pressure, Ulcers

► A NEW GROUP of drugs that lower blood pressure and might also prove useful in treating stomach ulcers has been developed by scientists at the Wellcome Research Laboratories, Beckenham, Kent, England.

When tried on patients, the drug called 356C54 has been one of the most promising so far. Injected under the skin, it has usually lowered the blood pressure for seven to 12 hours. Unpleasant side effects have been at a minimum, except for some variable and often temporary disturbance of vision because the drug may dilate the pupil of the eye. This can be partly counteracted by eye drops.

Use of the drugs in stomach ulcer patients is suggested because of their great ability to block secretion of stomach juices and stomach activity.

The drugs act by blocking nerve centers, called ganglia. They belong to the chemical class of diquaternary-amino-carbinols. Some are related to antihistamines, others to pain-killers.

News of them comes from an announcement in *Nature* (March 17) by a Wellcome Research Laboratories team consisting of Drs. D. W. Adamson, J. W. Billingham and A. F. Green. Dr. S. Locket of Oldchurch Hospital, Romford, Essex, tried the drugs on patients.

Science News Letter, March 31, 1956

ASTRONOMY

Jupiter's Radio Static

► JUPITER'S "pops and swishes" are being tuned in on by radio astronomers who find the planet's red spot is often present when the "static" is heard.

Five astronomers from three observatories told the American Astronomical Society meeting in Columbus, Ohio, of new findings on radio waves from Jupiter, the first planet in the solar system from which radio waves were detected. (See SNL, Feb. 18, p. 110.)

Jupiter's red spot, first noted in 1878, is a semi-permanent marking that seems to float in the atmosphere, not being rooted to the surface. One source of radio noise from Jupiter seems to rotate at about the same rate as the red spot, Drs. Bernard F. Burke and Kenneth L. Franklin of Carnegie Institution of Washington reported.

The planet revolves on its axis about every ten hours, but the noise is not found every time the spot appears. That a correlation exists between the two has been confirmed by Austrian radio astronomers.

Radio waves from Jupiter at 22 megacycles are almost 100% polarized, the Carnegie scientists reported.

Two scientists from the National Bureau of Standards laboratory at Boulder, Colo., said they had found that bursts of radio-activity heard at one frequency are not necessarily heard at another.

Drs. Roger M. Gallet and Kenneth L. Bowles reported that the Central Radio Propagation Laboratory at Boulder was set up to receive radio waves from Jupiter at two different frequencies at the same time.

Dr. John D. Kraus of Ohio State University said he and his associates had been tracking Jupiter since January at a wavelength of 33 feet. The planet's broadcasts resemble popping sounds following each other at intervals of fractions of seconds.

Dr. C. A. Shain of Australia's Radio-physics Laboratory found an active region had been observed on Jupiter in 1950 but it was not then recognized as such and is not as active now as it was then, Dr. Franklin reported.

Until a better explanation is found, scientists consider the radio noise is caused by large-scale disturbances in Jupiter's atmosphere, resembling thunderstorms on earth.

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