

THE OHIO STATE UNIVERSITY

RADIO OBSERVATORY  
DEPARTMENT OF ELECTRICAL ENGINEERING  
2024 NEIL AVENUE  
COLUMBUS 10, OHIO

August 22, 1963

Dr. Grote Reber  
Commonwealth Scientific and  
Industrial Research Organization  
Stowell Avenue  
Hobart, Tasmania  
Australia

Dear Grote:

Thanks for yours of August 2nd. It was good to hear from you again and to learn that you are getting interesting results on 2082 Kc.

Enclosed is some information on the wild peanut vine. I would have sent you more seeds but last fall when I went to look I found that most of the pods had already popped open and dispersed their seeds. I should have looked earlier. Now that I recognize the plant I find it to be very common along the banks of our stream.

Although a halo is not obvious from my contour map of M31 there is a suggestion of one if all of the profiles (between  $40^{\circ}07'$  and  $42^{\circ}07'$ ) are added with the major axis of M31 as reference instead of a fixed right ascension. That is, if the profiles are added with a displacement of approximately 4 minutes per degree of declination. The resulting scan is the same as would be obtained with an east-west scan of a knife-edge beam with long axis of the beam parallel to the M31 major axis. It is  $5^{\circ}$  or  $6^{\circ}$  across.

With all best wishes,

Sincerely,



John D. Kraus

JDK/cjr

Wild or hog peanut

*Falcata comosa* (Linnaeus) Kuntze

Stems very slender, simple or somewhat branched, twining and climbing over herbs and shrubs, 1 to 6 feet long, more or less pubescent. Leaves with 3 rhombic-ovate or broadly ovate leaflets pointed at apex, rounded at base, 1 to 3 inches long. Flowers purplish or nearly white in axillary, slender-stalked clusters or racemes. In the lower axils are solitary, apetalous fertile flowers. Calyx of the petaliferous flowers four to five-toothed, tubular; the oblong wings of the corolla curved and adherent to the recurved, blunt keel and inclosed by the erect, obovate standard; pods oblong-lanceolate, pointed and hairy, about 1 inch long.

In moist places, New Brunswick to Florida, west to Manitoba, Nebraska and Louisiana. Flowering from early August until late in September.

[*Falcata pitcheri* (Torrey and Gray) Kuntze, very closely related to the preceding species, has leaves of firmer texture and the stems, petioles and flowering stalks villous-pubescent with conspicuous brown hairs.]

Above from Homer D. House, "Wild Flowers", MacMillan Co., New York, 1935.

Additional information re *Falcata comosa*:

Twining direction: Right handed screw thread

Pods open explosively and halves twist around long axis of pod.