



National Research Council
Canada

Herzberg Institute
of Astrophysics

Ottawa, Canada
K1A 0R6

Conseil national de recherches
Canada

Institut Herzberg
d'astrophysique

NRC-CNRC

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Mr. George R. Lewycky
7 Durst Drive
Milltown, NJ 08850 USA

Dear Mr. Lewycky

Thank you for your letter of 18 July. Following your letter I have tried to find some better reproduction of the spectrum of H_2CO in the region in which you are interested. It appears that Pearse and Gaydon is the only place that gives a fair reproduction in the region 2915-2955 Å.

It appears to me that the old paper by Dieke and Kistiakowsky in Physical Review vol. 45 p. 4-28 (1934) is still the most detailed about the structure of the bands, but it goes down only to 3295 Å. It is a fair assumption that the bands at lower wave length will have a very similar structure. There are however no photographs of the spectra.

A more recent paper by Callomon and Innes (Journal of Molecular Spectroscopy vol. 10 p. 166-181 (1963) has two sections of the photographic spectrum. If I should come across any other photographs in your region I shall let you know. It might even be possible to take new laboratory spectra in case the spectra of Titan do show structure.

I shall be very much interested to know whether the new spectra do show H_2CO .

With best wishes

sincerely


Gerhard Herzberg

Telex 053-3715
Télex 053-3715

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