Fam 420301-17 gophus, male, present. Collected the following amphibia "cottontails, actived" mainly in small ditch paralelling railroad grade with strip cut on north which would act as an absorbing medum for heat rays from the sun. Several groups of Thamnophis sirtalis parietalis were found on these south exposure basking in close contact.

no. (1-3-1-42) Hyla regila. Collected at Image, few miles east of Vancouver along Columbia River. Associated with egg masses. when collected in the evening were singing continuously with head just out of water. Most difficult to locate. would generally recognize us at 15'.

no. (2-3-1-42) Hyla regila. Ibid.

no. (3-3-1-42) Hyla regila. Ibid.

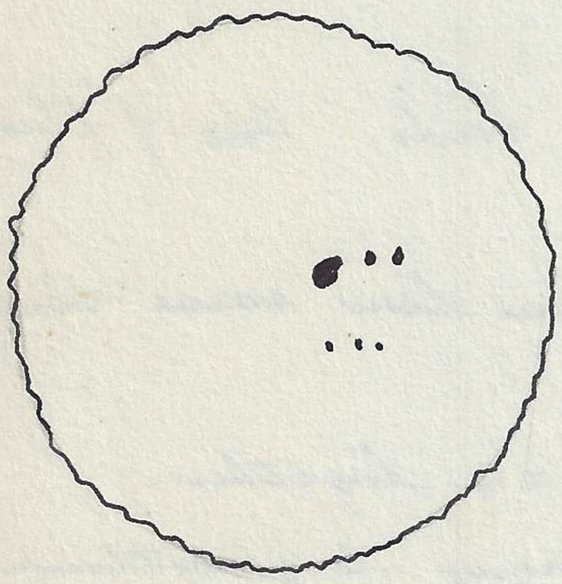
no. (4-3-1-42) Frog (small). Ibid. Associated with egg mass. Individual eggs had last individuality.

no. (5-3-1-42) Larg Toad. Found in artifical spring trap. Appeared to me that it could easily have escaped if it worked to do ~~do~~ so.

no. (6-3-1-42) Small Toad. Found in association with the above forms.

no. (7-3-1-42) Salamander and (8-4-1-42) Salamander associated with above. more evident and active in ~~t~~ springs and side ditches at twilight. Mainly in water.

During the morning sunrise observed a phenomena which I had never observed before under such excellent condetions. Observed the sun spots thru the hazy of early morning. The refraction of these fog clouds and atmospheric interuptions cause an enlargement of the sun some 2 or 3 time normal size, magnifying the sunspots as well.



There sunspots were discernable with the natural eye and took on these proportions. It appeared to me that the upper three moved perceptibly towards the upper pole. Peripheral edge of sun with a crenated edge which changed rapidly. With such perfect filtering condetions feel that these irregularites upon the suns surface were actually heat flames forming and disappearing upon the suns surface! While passing three horizontal layers of haze, the sun would take upon an irregular form indicating the relative degree of atmospheric refraction. Nellie made the comparison to the large yellow-orange suspended in mid air. The site was indeed a rare occasion. This observation was verified by official record of sunspots and their magnetic interference with communications etc during some period.