

ANTHOCHARIS THOOSA, Scudder, ♀, Hayden, Bull. iv., p. 257, 1878.

Male.—Expands from 1.25 to 1.4 inch.

Upper side white; primaries have a large orange apical patch, limited on basal side by a broad black bar, which extends from costa to inner margin; this is composed in part of the discal bar, which is broader than is usual, but there is no break in its course, and either no narrowing below the cell, or very little; and scarcely any difference in texture, the entire bar being coarse grained with rough edges; the margin from upper to lower end of the patch edged with brown narrowly, with a serration in each interspace. Secondaries have a few black scales on the edge of margin at each nervule; on the anterior half of the wing these become small clusters, but seem never very distinct.

Under side of primaries dusted over the apical area and down hind margin to median with brown scales, on a white ground at apex, but pinkish ground outside the patch; this is restricted, hardly half as large as on upper side, more yellowish; the discal spot confined to arc of cell, with an angular sinus on outer side. Secondaries white, much covered with gray-brown scales (like those of *A. Julia*) disposed in small clusters mostly, along the nervures and branches; these are connected by intermediate scales near the margin, making a sort of border to the wing.

Female.—Expands 1.4 inch.

Upper side white tinted with lemon yellow, deepest on disk of secondaries; the orange patch narrow; the apical and marginal area brown, enclosing a chain of yellow spots, which on lower part of margin cut through the brown border; the discal spot broad, blackish, arose on outer side, not extending below extremity of arc; on secondaries clusters of scales at ends of all the nervules. Under side scarcely different from male.

From 3 ♂ 1 ♀ sent me by Mr. Neumoegen and taken in Arizona, and 1 ♂ from same region by the Wheeler Expedition.

The single female described by Mr. Scudder was taken at Mokiak Pass, Arizona, "20 miles east of St. George; a pass in mountains between St. George and Juniper Mts., in a very broken and rough volcanic region." Scudder.

ANTHOCHARIS STELLA.

Male.—Expands 1.4 inch.

Upper side delicate lemon-yellow; primaries have a large bright