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TTERFLIES OF NORTH KOTA An Atlas and Guide

A. ROYER. 1988. Science ograph No. 1. Minot State Univer-Minot, ND. 192 pp. 12 colour, 1 plates; 142 maps. Cerlux bound. x 203 mm). \$20.50

ien writing a bibliography for Sasewan butterfly watchers in the June Blue Jay, I had not seen this attracvolume. Each of the state's 142 es is illustrated — all but two in r — at 60% life-size, which results me images tat are pretty small. s are of whole insects and usually upper and lower surfaces of both Sixteen specimens of the highly le Uhler's Arctic are shown. After uctory chapters there are three sections: text on identification and gy of each species (74 pp.), distribuhaps by county for each (32 pp.), ates of excellent colour with facing ications (52 pp.). The publication ides with lists of expected species, zations and suppliers, a glossary dex (16 pp.).

purpose is "to offer to naturalists, is and the young people of North a an understandable and truly useroductory guide ..." In some ways mual falls far short of that goal. In erest of comprehension, was there I for unnecessary jargon such as oltine" or "maculation" and genic" (none of these is in the glost is also difficult to imagine a less organization. How much more nient it would have been to have tribution map with each species. ustrating for non-scientists to find

only scientific names with maps and photographs, and only metric measurements! And how much more straightforward it would have been to assign numbers to connect legends and photos, especially when there are up to 56 of each on facing pages. (A name is located on one page in the same position as its photo on the opposite page.) The lack of cross-referencing adds to the difficulty of use: text for a species does not tell the reader where its map can be found, and neither map nor illustration indicates where the species' text is found. There was also an inexcusable waste of trees with 13 pages of photos and their facing 13 pages of legends occupying 52 pages (the backs are blank).

However, because its colour photos cover 103 of Saskatchewan's 144 species (2 more are in black and white), this title is well worth adding to your butterfly library. — Reviewed by *Bernie Gollop*, 2202 York Avenue, Saskatoon, Saskatchewan. S7J 1J1

GEOLOGICAL HISTORY OF SASKATCHEWAN

JOHN E. STORER 1989. Saskatchewan Museum of Natural History, Regina, Saskatchewan. Illus. color and b/w, map, folding charts. \$13.95.

This attractively produced and lavishly illustrated work constitutes the first general account of Saskatchewan geology to be written for the general reader. Its production was linked with the opening of the new Earth Sciences Gallery of the Saskatchewan Museum of Natural History, Regina. The greater part of its illustrations — most of them in colour —

are, indeed, photographs of the displays. In consequence, though this book can be quite well read in isolation, it will be used most effectively as an educational tool before, during of after visits to the Museum.

Though an interesting section on "The evolution of the Trans-Hudson Orogen (Mountain Belt) 2.1 to 1.8 billion years ago" was contributed by John Lewry of the University of Regina, the greater part of the text was written by John Storer himself. This affords the considerable asset that Dr. Storer is a lucid writer, well able to explain Saskatchewan's geology in a fashion comprehensible to any reasonable intelligent and educated reader.

John Storer's heart lies with the higher vertebrates; the story of the Palaeozoic era and its life occupies on 10 pages, whereas the Tertiary — after all, a much shorter time! — is given 14 pages and an infinitely more loving consideration! However, this imbalance will not disturb most readers, for whom dinosaurs and mammals afford a very much greater appeal than any mere invertebrate!

Some of the illustrations present problems, simply because they are direct photographs of displays. For example, in the block model of Saskatchewan's geological structure (p. 15), the placenames which serve as reference points are altogether illegible; could not larger name-cards have been temporarily laid on, for the photograph? Similarly, the reconstructions of Paleocene coalswamps (p. 64) and of a Late Eocene landscape (p. 66) are spoiled — the latter, especially so! — by the cases of specimens set at centre; surely these could have been removed before the pictures were taken? The striking, if rather bizarre, colour reconstruction on p. 45 lacks any caption, while the captions to the two figures on p. 48 have been absentmindedly transposed.

There are a few inconsistencies and the figure on p. 28 is vaguely labed a "Fossils in Tyndall Stone;" at left a receptaculitid and at right, a stromatory and p. 25, another stromatolity stabelled as such; while on pp. 30 and 1 there are reconstructions of reconstructions (the latter, oddly and mislingly labelled a "sunflower coral" of which the illustration on p. 28 might he been usefully linked.

Certain other statements, though at erroneous, are potentially mislead ; Yes, the Ordovician ostracods 12 "among the largest in the group's hist /" (p. 29); but an explanation that ostrails are micro-organisms, and these gial a mere few centimeters long, would be helped a reader who did not know! (Indeed, their textual juxtaposition nautiloids tends to suggest that h groups were equally large!) Persona 1 deprecate the use of the name "flig lemurs" (p. 66) for animals that re neither lemurs nor capable of flight; c ld not "dermopteran" or "colugo" been used instead? "Shrubox" (p. 5) puzzled me considerably, until I realed that a hyphen had been omitted! (SF box?)

These are all minor matters, how er, that can be attended to when the goes into its second edition (as sure it must!). All in all, this is a vividly pres€ 3d and well-written work that should only be of high value to katchewanians already interested in ogy and the life of the past, but inspire such interests in persons hit indifferent to these topics. John S John Lewry and the Museum of Na al History have done a real service to ur province by making it available in stra pleasant format and at so moder, a price. — Reviewed by William A.S arjeant, Department of Geological S nces, University of Saskatche n, Saskatoon, Saskatchewan. S7N 0W