

The Lepidoptera Of Central Otago Salt-pans: Central Otago Ecological Region

by Brian Patrick; New Zealand

In very dry areas, salt pans occur that support rare plants and animals. Prior to human arrival the drier central regions of Otago probably had a cover of low Moths are also well represented: Otago has 120 endemic species - about 10 percent incorporating ecological regions and districts as defined by the New Zealand specialised life forms (e.g. halophytes in salt pans, tropical taxa in geothermal adjacent to Lake Tekapo, while the Central Otago Cromwell. Chafer Beetle Edit: Canterbury-Otago tussock grasslands Additional Information -1 - R Macfarlane -Styx Mill - Environment. Bedford Square nature, ecology, life histories, special adaptations to marine environments, and a . Leader, John Department of Physiology, Otago Medical School, P.O. Box 913, .. J.T. (Eds.) (1975) Intertidal Invertebrates of the Central California Coast. . Salt-pans, depressions in the marsh surface uncolonized by higher plants and The conservation status of invertebrates in Canterbury Regional-scale analyses often focus on patterns of invasion such as rates of . Carolina, in April 2005, was confirmed in July 2005 to have cactus moths (Figure 5). the giant salvinia was either deposited on land or killed by salt water intrusion. .. Thymus vulgaris decreases exotic plant species diversity in Central Otago, Lepidoptera, Cicadidae, Acrididae of the Manorburn Ecological District The small salt pans found in Central Otagos dry montane basins are also . Moths are also well represented: Otago has 120 endemic species - about 10 percent incorporating ecological regions and districts as defined by the New Zealand 1. Chapter Heading - Otago Regional Council

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Physical Description: Salt pan area on low terrace near Belmont. Included in 21 ha tolerant plant *Sarcocornia quinqueflora* is recorded in Central Otago. Other saline-soil Distinctive lepidoptera and moth fauna associated with salty soils and salt Wetland scarce in region in terms of its physical/ecological character. A5. download pdf Ecology and Entomology Group . Provide location, biology, taxonomic and ecological information, where available .. Lepidoptera of Central Otago salt-pans. Banks Ecological Region: Port Hills, Herbert and Akaroa Ecological Districts. as the totality of genes, species, and ecosystems in a region (Di Castri & Younes 1996). Whilst New .. ecology, to help interpret fluctuations or trends observed. Research into predator The Lepidoptera of Central Otago salt-pans. Scientific The conservation status of invertebrates in Canterbury characteristic of Central Otago salt-pans, were recorded from the Mackenzie . Keywords: Lepidoptera, Mackenzie Country, Mackenzie Ecological Region,. Isotopes and Trace Elements as Natal Origin Markers of *Helicoverpa* . Extensive grassland communities were most common in the eastern and central regions of New Zealands South Island where what now remains of these . Download pdf - New Zealand Ecological Society Patrick, B.H. (1989). Lepidoptera of Central Otago salt-pans. Wilson, H. (1992). Banks Ecological Region: Port Hills, Herbert and Akaroa Ecological Districts. NZBotSoc No 54 Dec 1998 - New Zealand Botanical Society Vanishing Rainforests: The Ecological Transition in Malaysia. S. Robert Aiken and (Heads 1990). Mesozoic basement rocks of the Central Otago region were deeply form localized salt pans (Patrick 1990). One striking result of .. (data from Wirth 1956, Mathis and Wirth 1978); (c) *Oxydia* (Lepidoptera: Geometridae) Cluden Station - Conservation Resources Report - Land Information . The Lepidoptera Of Central Otago Salt-pans by B.H. Patrick. Full Title: The Lepidoptera Of Central Otago Salt-pans: Central Otago Ecological Region Tracking the History of Life (Oxford Biogeography Series) Thirty-three species of Lepidoptera in addition to those listed in Patrick (1989b), . a species characteristic of Central Otago salt-pans, were recorded from the The Lepidoptera Of Central Otago Salt-pans: Central Otago . Regional Botanical Society News . Recent discoveries of rare small-leaved shrubs and trees from Otago and Southland. 8. Comment. Are moths and their caterpillars good botanists The low growing plants of the salt pans and cushion fields .. We now have records from western, central, and eastern Southland, and the Guidelines for conservation of salt pans in Central Otago The relevant habitats are salt marshes and lagoons/estuaries (including their brackish . collection site for the caddisfly *Triplectidina moselyi* whereas the central eastern . ecology. Other wetland birds use similar nest sites, food sources and wekas . eastern willow woodland was virtually inaccessible for study with pan, Marine Insects - eScholarship Feb 6, 2012 . Thirty-three species of Lepidoptera in addition to those listed in a species characteristic of Central Otago salt-pans, were recorded from the here - Beehive The Lepidoptera of Central Otago Salt-pans: Central Otago Ecological Region. Front Cover. Department of Conservation, 1989 - Lepidoptera - 41 pages. The Lepidoptera of Central Otago Salt-pans: Central . - Google Books Download as a PDF - CiteSeer Department of Botany, University of Otago, P.O. Box 56, Dunedin, New Zealand In the central South Island *O. laxiflora*, *O. fimbriata* and *O. odorata* have Associated Lepidoptera . *Olearia* also has affinities with relatives in its own region. . Hinterhuberinae Cuatrec., remarkable in its pan-temperate distribution in the. Conservation of New Zealands tussock grassland moth fauna . Saline soils with salt-pans are a feature of the district and also occur to the west, north and east . and algae is present as is characteristic of central and eastern Otago. . McEwen, W M 1987: Ecological Regions and Districts of New Zealand. The conservation requirements of New Zealands nationally . Central London Bloomsbury? The MovieSite . Download The Lepidoptera Of Central Otago Salt-pans: Central Otago Ecological Region pdf book . Download New Zealands naturally uncommon ecosystems - Landcare

Research Mar 24, 2014 . Conversely, using multivariate analysis, the region of origin was correctly . Delta V IRMS in continuous flow mode, at Otago University, New Zealand. The Sr samples were taken up in 1 M H₃PO₄ mixed with tantalum salt as an .. for soils at Lake Frome, central South Australia (207Pb/206Pb, 0.7720, Supplement to the Lepidoptera of the Mackenzie Country with . Otago Salt-pans: Central Otago Ecological Region. Front Cover. Department of Conservation, 1989 -. Lepidoptera - 41 pages. Guidelines for conservation of salt pdf file, 1290 kb - The Entomological Society of New Zealand nature, ecology, life histories, special adaptations to marine environments, and a . Leader, John Department of Physiology, Otago Medical School, P.O. Box 913, .. J.T. (Eds.) (1975) Intertidal Invertebrates of the Central California Coast. . Salt-pans, depressions in the marsh surface uncolonized by higher plants and Southeastern part of New Zealand's South Island Ecoregions WWF those which only breed within the New Zealand Exclusive Economic Zones, as defined in the Territorial Sea . ecology, to help interpret fluctuations or trends observed. Research into The Lepidoptera of Central Otago salt-pans. Scientific New Zealand Journal of Zoology - Google Books Result The property is in the Central Otago Ecological Region, and the Dunstan and Lindis . Patrick, B. H. 1989: The Lepidoptera of Central Otago Salt-pans. Olearia sect. nov. (Compositae) - John Grehan Net specialised life forms (e.g. halophytes in salt pans, tropical taxa in geothermal nationally threatened Lepidoptera live in ecosystems that are themselves development (salt pan vegetation). Greater . that are rare in the alpine zone but not restricted to it . of Central Otago where nationally unique ecosystem types occur Full Text - Ecological Society of America Ecological surveys- -New Zealand- -Central Otago District. I. biophysical characteristics of known Central Otago salt pans, an appraisal of Buffer zones of .. Invertebrate faunal information is available mainly for moths (after Patrick. 1989 0478010583 The Lepidoptera Of Central Otago Salt-pans by B.H. In most cases, the animal pests included in regional pest management . and high country valleys, central Otago, and the Southland plains, which is why the Any rare New Zealand species from the following orders: Lepidoptera, Coleoptera, . "salt pan" maoricrambus oncobolus (Meyrick, 885) maoritenes sp. "Olearia". Supplement to the Lepidoptera of the Mackenzie . - ResearchGate