Australia’s butterfly fauna is now reasonably well known, and most of the species can be recognised and named by non-specialists with the aid of the comprehensive text and later field guide by Braby (2000, 2004). Numerous localised subspecies have also been named and, although the acceptance and status of many of these is still open to debate, they clearly demonstrate the considerable additional variety present over the mosaic of the country’s environments. Robust biological and distributional frameworks have been constructed for many taxa, even though many of the more intricate details have not been documented. Their very low abundance and narrow distributions, indeed, render some taxa formidably difficult to study. Interest in butterfly conservation has also increased markedly in recent years, and the butterflies are the only group of invertebrates in Australia so far accorded a National Action Plan to help define and focus their conservation needs (Sands and New 2002). Much of the historical and evolutionary background to Australia’s butterfly fauna was summarised by authors in Kitching et al. (1999).

In this account, I deal with some aspects of the conservation of a restricted southern subset of Australia’s butterflies, essentially those found in, and many of them endemic to, the East Bassian Province. In general, these butterflies have received far more attention than those elsewhere in the country. The region supports much of Australia’s human population, and is that most intensively surveyed for Lepidoptera. It comprises Victoria and immediately adjacent parts of the south east corner of the Australian mainland (namely southern South Australia, the Australian Capital Territory, and most of New South Wales) as well as Tasmania, and the intervening islands of Bass Strait.

It is also the predominant region in which practical butterfly conservation in Australia has largely been founded, mainly during the last three decades. I bring together information accrued over this period on the conservation status, needs and management of several species and subspecies of conservation significance. These cases have helped to initiate, drive and develop interest and policy affecting insect conservation in the region. The wider values of this synthesis include demonstrating the development of some of the first insect species conservation programmes in southern Australia, assessing the needs for these, and how those needs were acknowledged and addressed. They revealed the massive contrasts between Australian knowledge and capability for butterfly conservation and that which may be ‘taken for granted’ in parts of the northern temperate region as an outcome of the much stronger historical and biological documentation extending over more than a century. Other than by coincidence and inference, we have little knowledge
of historical changes in Australian butterfly abundance and distributions before the
last quarter of the twentieth century, and interest in insect conservation is generally
a modern development, largely in response to perceptions of influences of anthropo-
genic change and greater appreciation of Australia’s biodiversity and its vulner-
ability to the massive losses of natural vegetation that have occurred so widely over
the country. These gaps in knowledge ensure that the research component of man-
agement for most Australian butterflies assumes predominant importance in order
to provide the basis for sensible knowledge-based and well-focused conservation,
and to render management likely to succeed. Much of the limited background infor-
mation on some taxa has hitherto been unpublished or is contained in internal or
agency reports of limited circulation as ‘grey literature’; and the period covered and
the cases treated are amongst those that have led to widespread acceptance of
insects as ‘worthy’ of conservation attention in Australia. More generally, this
account thus builds on an earlier published foundation perspective of insect conser-
vation in Australia (New 1984) to illustrate increasing interest and maturity within
this science.

The major current perspective is developed from discussion of conservation
efforts for several species or subspecies that have helped to found interests in insect
conservation in the region. Almost all the taxa involved are members of significant
endemic radiations of butterflies. Most, such as myrmecophilous species of
Lycaenidae, display considerable ecological complexity and are ecological special-
ists in some way – with, of course, features such as larval monophagy, other special-
ised requirements such as specific ant mutualists, and very limited habitat spectrum
likely to increase their vulnerability and, hence, their conservation needs and pro-
file. In addition to taxa being conservation targets in their own right, studies of
butterflies have raised (and helped to clarify) the complex problems of defining and
protecting ‘communities’ both in legislation and practice, and to draw attention to
the vulnerability of habitats of very restricted extent. These cases have played sub-
stantial educational roles, not least in awakening young people and others to the
intricacies of insect biology and the features affecting wellbeing, and several cases
are discussed in some detail to illustrate these wider influences. They are comple-
mented by briefer accounts of most other butterflies that have attracted attention for
conservation needs in the region, although some of these taxa have not yet received
detailed attention. Collectively, these examples demonstrate the range of regional
concerns and threats for butterfly wellbeing, and how some of these concerns are
gradually being translated into conservation practice. They demonstrate also that
much remains to be learned, and done.

These examples are preceded by wider commentary to introduce the region’s
butterfly fauna and its conservation needs, and the development of relevant conser-
vation legislation and practice for invertebrates. The final discussion synthesises
some of the major issues facing butterfly conservation in the region, and prospects
for the future, helping to place the progress made into a wider perspective. The
book is thus divided into three parts, with the first part setting the perspective for
the case histories and these, in turn, contributing to the fuller information needed
for future use and development. The sequence of taxon-based cases discussed in
Part II runs from the comparative conservation of intraspecific forms (subspecies) through comparison of closely related species within a genus (one case of two congeneric species, a second of a more diverse array), to a broader appraisal of taxa depending on a vulnerable restricted ecosystem (alpine grasslands), and finally to the wider issues involved in transforming butterfly conservation planning from strict taxon-focus to that of a ‘community’ in which individual butterfly taxa may be threatened. Part 3 integrates these examples with other taxa for which conservation is warranted, and discusses the considerable effort and involvement needed to assure Australia’s butterflies a more secure future.

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