Popular religion and sustainability: enhancing synergies within a Biosphere Reserve

Abraham Paulsen, Danilo Petrovich & Andrés Moreira-Muñoz

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Abstract

The potential benefits of integrating vernacular religious beliefs into biodiversity conservation and sustainability actions have been emphasized widely, while specific examples and the synergies between religious communities and conservationists in particular spaces deserve more attention. The manifestations of vernacular religions in territories devoted to sustainability, such as Biosphere Reserves (BRs), are a particularly rich area for study. While La Campana-Peñuelas BR has long been recognized as a territory where local religion is an important feature, greater awareness of this and of the potential link to sustainability actions is still lacking, as is awareness of the potential of the BR to become a Multi-Internationally Designated Area. Here we report on the diversity of popular religious activities within the BR. Possible synergies between popular religion and sustainability are based on the strong organizational capacities of local communities, and on an ethical vision of social justice that encompasses both human relations and attitudes towards the non-human beings within the biosphere.

Introduction

There is overwhelming scientific evidence that human actions at the global scale are destabilizing the biosphere, putting all life on Earth in danger (Steffen et al. 2015). The urgent need for actions that promote a better harmonization of human activities within the biosphere is evident. The laissez-faire attitude of much of global society, however, pushing humanity towards over-consumption, pollution and environmental crisis, is marked by a loss of a sense of empathy and responsibility towards others, humans and non-humans.

Actions that aim to regenerate territories which are already environmentally impoverished require a robust attitude in the face of social injustice and common unsustainable practices. This requires a new environmental ethic, and this is where religion comes into play: “Religion functions as both a source and legitimator of moral values, arising from a faith ethos or culture, which construct the duties, joys, and responsibilities of how people order their lives and their relationships with each other, with the Divine, and with the natural world” (Northcott 1996, as cited by Mcleod & Palmer 2015).

Biosphere Reserves (BRs), recognized as territories for promoting the transition towards sustainability, are areas in which religion can help build an ethical basis for action. While interest in biocultural diversity in BRs and actions to promote it are increasing (Moreira-Muñoz et al. in press), the link between popular religion and sustainability has drawn little attention. Here, we report briefly on popular religious practices within La Campana-Peñuelas BR and present some reflections on how to promote sustainable synergies in BRs in their transition towards sustainability.

La Campana-Peñuelas, a Biosphere Reserve under threat

Intense conflicts arise in La Campana-Peñuelas due to its location within the two most populated regions in Chile: Santiago and Valparaíso. Direct threats to the BR include urban sprawl, agriculture and agrochemical pollution, wildfires, environmental injustices, and conflicts over water supplies (Salazar et al. 2015); and in general a lack of awareness among local people of the environmental values of the BR. In recent years, threats to the BR have been intensified by the arbitrary installation of massive overhead power lines. In addition, a fossil-fuel thermal power station has been proposed, generating popular demonstrations against it (Figure 1). To the north of the BR, along the Aconcagua and La Ligua rivers, conflicts over water are increasing, with agribusiness affecting communities’ local water provision (Panez-Pinto et al. 2018) (Figure 1). The north-west of the BR has become a so called sacrifice zone (Figure 1). Here, Quintero-Puchuncaví industrial complex is contaminating the surrounding environment in its entirety – water, soil, atmosphere and people.

Biosphere Reserves as spaces for conservation, sustainability and belief

Within the context of La Campana-Peñuelas BR as described above, all aspects of sustainability within and around the BR need to be enhanced. While there have been some efforts towards ecosystem restoration (Carvajal et al. 2018), ethical and spiritual aspects have still not received sufficient attention. This is currently
one of the main failings of the BR, which is related to the weak presence of the MAB Programme in Chile (Moreira-Muñoz et al. in press).

Partnerships between religious communities and those responsible for sustainability actions are desirable (Mcleod & Palmer 2015). Within the BR, such partnerships would enhance an ethic that respects life. Popular religious activities are a characteristic of the BR, as has already been recognized in early surveys (e.g. Elórtegui & Moreira-Muñoz 2002). A more detailed survey of the current popular religious practices within and around the BR are summarized in Table 1.

Popular events include a range of activities, from the most private ones, inside individual homes (popular singers for saints’ days and wakes), to the most massive: Lo Vásquez Sanctuary, which attracts thousands of pilgrims. Not all these events have the potential to create synergies with conservation actions, which is a real challenge: for instance, the Lo Vásquez pilgrimage leaves behind tons of rubbish. This opens an opportunity to work with local environmental groups.

The Niño Dios de Las Palmas is associated with a pilgrim route that goes through the heart of the BR, La Campana National Park. People come to visit the

<table>
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statue of the Christ child housed in the little church in Las Palmas. The pilgrimage route to Las Palmas crosses the NP, creating another type of connection with nature through the pilgrimage under the sclerophyllous forests. This pilgrimage recalls one that no longer exists – the procession organized by the Congregation of the Sacred Heart at the end of the 19th century. The old pilgrimage route passes under ancient belloto forests (Beilschmiedia miersii), opening the imagination to a very deep connection with the natural environment.

**Bailes Chinos** (local traditional dances), for example those that call for rain, have a spiritual connection to the environment. They usually occur in local rural communities where respect for the Earth and its fruits is the norm. Ancient, traditional, handicrafts also reflect links to the environment: there are families, such as the Ponce family at Quebrada de Alvarado, who still make flutes for the dances, using local woods. Another emergent link between religion and the environment are the prayers of the 40 Horas (40 hours) celebration. An environmental aspect has recently been added to the traditional religious content, and prayers nowadays call for the dissolution of environmental threats (Figures 2 Bottom).

Material and immaterial heritage may coincide (Manríquez et al. 2019): there are locations that are recognized both as religious sanctuaries and as natural ones. And indeed, popular religion manifests itself spatially within the BR: most of the Bailes Chinos are located along Olmué-Limache axis (Figure 3) or in the north, in the valley of the Aconcagua river. Interestingly, while isolated from the rest, the Bailes Chinos in Quintero-Puchuncaví show spiritual similarities to other practices in the region. These dances have their roots in colonial times, in small communities in the North of Chile (Contreras & González 2012), but they are now a well-established tradition in Chilean society more widely and are still alive in these times of globalization (UNESCO 2004).

**Possible synergies between popular religion and sustainability**

The overlaying of priority conservation sites and religious practices has been reported at different scales, from the global to the regional (Negi 2005; Tatay-Nieto & Muñoz-Igualada 2019). Features of popular old traditional religious manifestations in Spain (pilgrimage routes, shrines, hermitages and monasteries) coincide geographically with the Natura 2000 network, which protects threatened species and habitats (Tatay-Nieto & Muñoz-Igualada 2019). In La Campana-Peñuelas BR similarly, the natural heritage and religious/cultural traditions occupy the same spaces.

It is important to recognize that ancient religious practices pre-date contemporary conservation discourses and initiatives (Adler 2006; Gavilán Vega & Carrasco 2009; Berry 2015; Frascaroli 2013), and that religious ethics have inspired great names in the environmental movement, such as the American conservationist John Muir (Powell 2019). There is evidence that scientists and conservationists are ultimately motivated by mystical/spiritual experiences in nature which build on formal religion (Macleod & Palmer 2015).

In specific territories where a greater harmony between human and non-human communities has long existed, the spiritual, sacred, meanings of certain plants and animals have been important in the development of a *sacred geography* (Posey 1999; Snodgrass & Tiedje 2008; Pungetti et al. 2012; Grabauskas 2016; Tatay-Nieto & Muñoz-Igualada 2018). La Campana-Peñuelas BR, in combination with the World Heritage Site Valparaíso and the *Bailes Chinos* (which are recognized as Intangible Cultural Heritage of Humanity (UNESCO 2014; Manríquez et al. 2019), is a Multi-Internationally Designated Area (MIDA) (Schaaf & Clamote Rodrigues 2016). The potential of BRs to enhance social-ecological harmony has already been proposed by Moreira-Muñoz et al. (in press). This can act in synergy with other efforts, such as Intergenerational Practice (IP), which has been proposed as one way of enhancing participation within BRs, by integrating young people and elderly women (Mitrofanenko et al. 2018). Today, the presence of religious groups with an ethic of responsibility and love for other humans and non-humans gives hope for this territory in particular,
and provides a possible way forward for the rest of Chilean society, which is generally alienated from nature and spiritual connection.

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