

ANNEX 1

The Programme

ANNEX 1A

The Programme use of funds in the *Noroeste Biosphere Reserve*

The Programme use of funds in the *Noroeste Biosphere Reserve*

I – The *Noroeste Biosphere Reserve*¹

General Description

The *Noroeste Biosphere Reserve* is located on the northern coast of Peru in the Tumbes and Piura departments. The area covers part of the Ecuadorian dry forest in the tropical Pacific forest with high biodiversity in flora and fauna. The reserve also includes the *Cerros de Amotape National Park*, the *El Angolo Hunting Ground* and the *Tumbes Reserved Zone*. Its relief is very varied, and it is covered by formations of matorral, very dry forest, dry and tropical submontane forest, with *Prosopis juliflora*, *Bombax sp.*, *Tillandsia sp.*, and Tumbes mangroves. It also contains endangered fauna species as *Crocodylus acutus*, iguanas (*Iguana iguana*), birds as the *Vultur gryphus*, *Sarcoramphus papa*, and *Burhinus superciliaris*, and mammals as *Odocoileus virginianus*, *Tayassu tajacu*, and *Felis concolor*. Over 480 inhabitants live in the Biosphere Reserve, engaged in agriculture, cattle raising and tourism mainly in the buffer zones, which generates the principal income and benefits to local communities. In 1997, some 1,200 tourists visited the area. However, very little income is generated through natural tourism (guiding, handicrafts, hotel and restaurant). Some of the principal problems in the area are extensive cattle raising, timbering and illegal hunting. The main goal of the Biosphere Reserve is to protect ecosystems and important endangered forest fauna and flora species. Environmental education efforts have been supported as well as conservation and research on natural resources.

Major ecosystem type

Tropical dry or deciduous forests

Major habitats & land cover types

Mountainous tropical forest with *Prosopis sp.*, *Cordia lutea*, *Acacia macracantha*, *Caesalpinia paipai* etc.; tropical very dry forest including species such as *Tillandsia usneoides*, *Ceiba sp.*, *Bombax discolor*, *Bursera graveolens* etc.; pre-mountainous tropical forest characterized by *Tabebuia chrysantha*, *T. billbergii*, *Ceiba sp.* etc.; tropical dry forest dominated by *Triplaris peruviana* and *Ochroma sp.*; agroecosystems; pasture land

Location

03°24' to 04°53'S; 80°09' to 81°19'W

Area (hectares)

Total

231,402

Core area(s)

91,300

Buffer zone(s)

140,102

¹ UNESCO - MAB Biosphere Reserves Directory: <http://www2.unesco.org/mab/br/brdir/directory>

Altitude (meters above sea level)
+60 to +1,640

Year designated
1977

Research & Monitoring

- Monitoring of water resources
- Evaluation of archaeological and tourist potential
- Work with the community from buffer zone (environment education)
- Projects on management of natural resources
- Monitoring of flora and fauna

II – Strategy for the use of funds

The Programme Supervisory Board will approve an annual work plan for the use of funds in the *Noroeste Biosphere Reserve* mainly oriented to:

- ❖ involving local actors, including the local population, in managing the protected areas
- ❖ defeating poverty through the sustainable use of renewable natural resources
- ❖ providing the local populations with PA-based technical assistance for resource use
- ❖ contributing to bi-national Peru-Ecuador integration
- ❖ fostering the tourist industry in PA, for the direct benefit of the local communities.

If these goals are accomplished, the minimum conditions would be laid down for the conservation and sustainable and efficient use of the PAs' biological diversity and natural resources in the Biosphere Reserve.

In this case, efforts will aim at promoting the establishment of new sub-national conservation areas to be implemented by regional and local governments. This will also be a pioneering effort to design and run private conservation areas, with a preference for local community management.

III. Map: Noroeste Biosphere Reserve

