

4. Incorporation of risk into town planning

Maps of arrival times, wave heights and tsunami flooding produced during phase I have been used in the following activities:

- The National Fund for Development (FONADE) has hastened execution of the Tumaco Municipal Public Services and Drainage Plan;
- The Municipality of Tumaco and the Regional Development Corporation (Corporari-o) have financed the Municipal Urban Development Plan, including provision for the need to protect against tidal waves and re-site housing at risk;
- Based on the above, the Institute for Urban Reform and Social Housing (INURBE) has drawn up and launched a comprehensive housing relocation and improvement programme under which is hopes to re-site 3,500 homes currently situated in the high-risk zones identified in phase I. The project will be financed out of the housing subsidy provided by the national Government for such cases, and with resources from the European Economic Community.
- The Advisory Commission on Seismic Risk has drawn up a document on the conduct of soil liquefaction studies, which is being used by INGEOMINAS to evaluate the susceptibility to liquefaction of land intended for the resiting of human settlements at risk in Tumaco;
- The Colombian Tumaco Corporation has been founded, with involvement from the private sector, to support and promote the housing relocation plan and the plan for economic and social development, in which the risk of seismic events, tsunamis and earthquakes on the Pacific coast is regarded as decisive.

5. Updating of the Emergency Plan

One priority has been the formulation of the Emergency Relief Plan for use in the event of a tsunami by the Municipal Emergency Committee, on which a large number of public and private-sector entities are represented.

6. Education, training and public information

To continue the process of alerting the public to the problem and establish a public reaction to a tsunami, the Technical Tsunami Alert Committee of the National System for Risk Mitigation and Disaster Preparedness is putting forward, through the Observatorio Sismológico del Suroccidente and in co-operation with the *Habitat Pacifico* (CITCE, Faculty of Architecture, Universidad del Valle) and *Entintados del Pacifico* (Faculty of Education, Universidad del Valle) groups, a scientific proposal for the first (pilot) phase in the preparation and validation of a vital public information pamphlet on tsunamis.

It may be noted that the Buenaventura Local Emergency Committee, advised by OSSO, has conducted a preliminary assessment of exposure and vulnerability to tsunamis on the Pacific coast between Siviru (Chocó) and the Timbiquí river (Cauca) based on photographic and cartographic information. The final report (Meyer, H. and Velásquez, A, *Aproximación al riesgo por tsunami en la costa del Pacífico en Colombia*, Publicaciones Ocasionales del OSSO No. 2, 1992), printed in 1,500 copies, was distributed to authorities and organizations on the coast.

A tender for a similar assessment on the Nariño coast and south of Cauca is in preparation ●