

- (a) Mechanisms to develop comparable and compatible techniques, validation of methodologies and measurements, regular scientific review, agreed formats for presentation, including Geographic Information Systems and storage, and communication of the information gathered to potential users.
- (b) Systematic observation and monitoring of coastal habitats, inventories of marine pollution sources and fisheries statistics.
- [(c) Assurance that the GOOS contains capability to systematic observation monitor coastal as well as deep ocean features such as sea level changes and pollution.]
- (d) Better representation of agencies dealing with the marine environment (IOC, IMO) in United Nations-wide coordination efforts.
- (e) Better coordination of international and coastal and marine programmes
 - (i) Consider the development of improved relationships among the relevant international organizations (UNEP, UNESCO, IOC, WMO, IMO, FAO, IAEA, UNLOS secretariat, IAEA), including strengthening ICSPRO, the Inter-Secretariat Committee on Scientific Programs Related to Oceanography.

135. Develop and integrate regional [monitoring] [systematic observation] programmes into the UNEP Regional Seas Programmes which would contribute to the implementation of global ocean and coastal observing systems. The long-term systems should be based on the principle of [full and open] exchange of data. Monitoring should be capable of predicting the effects of climate related emergencies on existing physical, socio-economic coastal infrastructure (e.g. human settlements, industries, tourism, communication, ports and aquaculture). Site-specific analysis of sea level rise effects and temperature elevations on sensitive coastal ecosystems and lagoons and economically important species will also be necessary.(75)

Means of Implementation/Resource Requirements

TO BE FURTHER DEVELOPED.

- (i) Human Resource Development
- (ii) Scientific and Technological Infrastructure Development
- (iii) Costing and Financing

E. STRENGTHENING INTERNATIONAL, INCLUDING REGIONAL, COOPERATION AND COORDINATION

Basis for action

136. In order to effectuate the strategies and activities as elaborated upon in the other Programme Areas with respect to oceans [and coastal areas] and to ensure the integration of environment and development aspects, existing institutional arrangements at national, regional and global level need adjustment and strengthening. There are numerous global and regional institutions with competence in marine issues. A comprehensive convention and a number of other legal instruments deal with the various aspects of ocean [and coastal] affairs. With increasing attention to issues relating to the oceans [and coastal areas], it is important that Governments be able to consider interrelated problems as a whole, and thus identify important issues.