

建構近岸海域 GIS 圖層初期研究 Pre-Study of Nearshore Area GIS Construction

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【摘要】

國土範圍包含海域、陸域及海陸交接之近岸海域範圍，臺灣四周環海，海洋白皮書的公布，彰顯政府對海域國土的重視，近岸海域之國土規劃與資源開發及管理，更是國家海洋政策的重點。隨著政府單位積極展辦海域及近岸基本圖資測製建立，對於圖資管理及整合應用的需求也應運而生。因此，經濟活動、觀光旅遊與生態保育等目的使用最頻繁的近岸海域範圍，亟需針對已建置之近岸海域基本圖資予以整合研擬其 GIS 圖層項目與資料格式內容，作為後續近岸海域國土地形測繪工作之參據。

本局 93 年度起辦理「潮間帶地形測繪先導計畫」，94、95 年度續辦「彰雲地區潮間帶地形測繪計畫」與「潮間帶基本地形測量技術發展計畫」，進行近岸海域基本圖資測繪工作，上述測繪成果資料可提供相關單位業務管理與後續延伸應用。基此，為有效規劃研擬近岸海域 GIS 圖層項目與資料格式內容，本文以使用者的角度切入建構，草擬設計近岸海域圖資需求調查表，發送相關使用單位辦理需求調查及統計分析，據以規劃研擬近岸海域基本地形圖圖資規格，包含圖層分類、圖式設計與詮釋資料設計等。

關鍵詞：圖層；圖式；詮釋資料

ABSTRACT

The national territory scope contains the sea area, the land area and the near-shore area. Taiwan island is surrounded by sea water, the announcement of Ocean Policy White Paper reveals that the government values the sea national territory. The national land planning and resources development/management of near-shore area is the emphasis of the national ocean policy. Because of the increase of basic map data for sea area and near-shore area established by the government unit, the need of map data management and integrated application has become necessary. Therefore, the near-shore basic map data is very useful for many purposes, including economy activities, tourism and ecological conservation. It is an urgent demand to research and propose the applicable layers and data format of near-shore basic map data for GIS applications by which the foundation of the following near-shore terrain surveying projects will be settled.

Since 2004, LSB got up handles "Pilot Plan of Tidal Zone Terrain Surveying", and in 2005-2006, two tidal zone surveying plans are under implementation, including "Tidal Zone Topographic Surveying at Chang-hua and Yuun-lin" and "Technological Development Plan-- Tidal Zone Basic Topographic Surveying". The achievement of the above projects may supply extend applications to related business units. Accordingly, in

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order to plan the GIS layers and data format of near-shore area efficiently, this essay will design a near-shore area mapping demand examination table through the user ' s viewpoint and analyze the investigation replies from related organizations. Finally, the specifications of basic terrain map for near-shore area will be mapped out such as classification of layers, legends format, metadata design, and so on.

Keywords : Lay, Legend, Metadata