

經濟部依『災害防救法』第三條第二款規定為水災中央災害防救業務主管機關，負責指揮、督導及協調水災災害防救各級相關行政機關及公共事業執行及各項水災災害預防、緊急應變及災後復原重建工作。

經濟部水利署統合所有治水單位，針對全台各區域不同的水利需求，成立第一至第十河川局與水資源局、淡水河流域防洪指揮中心、濁水溪流域水情中心、台灣電力公司、自來水事業團隊、北中南區水資源局等單位，而『經濟部水利署緊急應變小組』，更強化災害之預防、災害發生時之緊急應變及災後之復原重建措施，有效執行防汛檢查等工作。

According to the "Disaster Prevention and Relief Law", Section 3.2, the Ministry of Economic Affairs is responsible for flood and disaster prevention and relief operations. It handles commanding, supervising and coordinating flood and disaster prevention and relief among all relevant administrative agencies and public enterprises, as well as all flood and disaster prevention, emergency response and post-disaster reconstruction.

Coordinating all water control agencies, the Ministry of Economic Affairs responding to the diverse water conservation needs of Taiwan's various regions has set up the 1st through 10th River Management Office and Water Resources Office, The Tamshui Flood Control Command Center, Chuoshui Stream Basin Water Flood Warning Center, Taiwan Power Company, Running Water Business Team, as well as North, Center and South Water Resource Offices. The Water Resources Agency's "Emergency Response Team" strengthens disaster prevention, emergency response when disaster strikes, and post-disaster reconstruction measures. These effectively implement flood prevention inspections and other jobs.



淡水河流域防洪指揮作業示意圖

Tamshui River Basin Flood Prevention Command Operations Chart

中央氣象局 Center Weather Bureau



提供颱風動態、即時雨量、各式氣象雲圖、雷達回波圖
Provides Typhoon Updates, Real-time Rainfall, Meteorological Cloud Charts, Radar Echo Charts

點對點 VPN 專線 Peer-to-Peer VPN Dedicated Line



水利署第十河川局 WRA Tenth River Bureau



提供淡水河流域即時雨量、水位及影像監控資訊
Provides Tamshui River Basin Rainfall, Water Levels and Video Monitor Data

無線電、微波、專線、撥接 Wireless, Microwave, Dedicated Line, Dial-up



員山子分洪管理中心 Yuanshantzu Flood Detention Center



提供員山子分洪道、攔河堰即時水位及影像監控資訊
Provides Yuanshantzu Diversion Channel, Dam, Real-time Water Level and Video Monitor Data

衛星、專線 Satellite, Dedicated Line



北區水資源局 Northern Water Resource Bureau

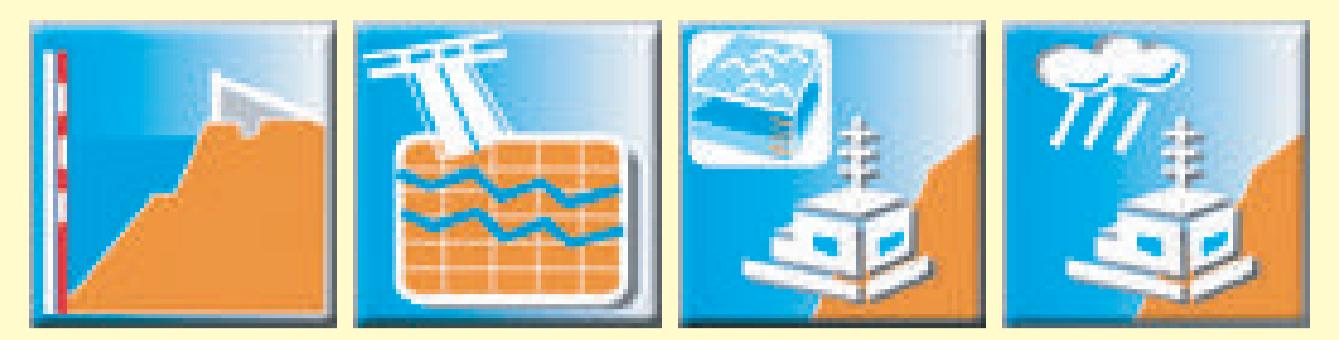


提供石門水庫運轉現況及上游集水區之雨量、水位與影像資訊
Provides Shihmen Reservoir Current Operations Conditions and Upstream Catchment Area Rain Levels, Water Levels and Video Monitor Data

微波、水利署VPN專線 Microwave, WRA VPN Dedicated Line



翡翠水庫管理局 Feitsui Reservoir Management Bureau



提供翡翠水庫運轉現況及上游集水區之雨量、水位與影像資訊
Provides Feitsui Reservoir Current Operations Conditions and Upstream Catchment Area Rain Levels, Water Levels and Video Monitor Data

微波、專線、撥接 Microwave, Dedicated Line, Dial-up



自動化即時水情資料收集與檢核系統

Automatic real-time water information collection and inspection system

通訊方式：無線電、衛星、微波、專線及多埠撥接系統，確保資訊通道暢通
Communication Method: Wireless, satellite, microwave, dedicated line and multi-port dial-up system.

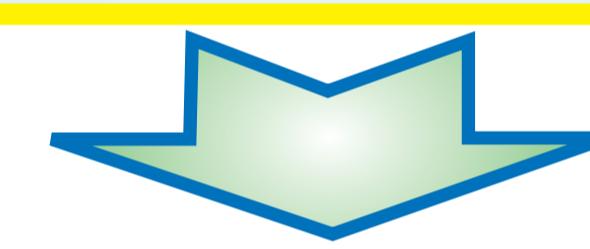
收集方式：定時傳送、主動轉入資料庫
Methods for ensuring smooth data collection: fixed-time transmission, automatic insertion in data bank.

工作流程導向：從收集、檢核、資料補遺以及資料儲存，至後續的洪水預報及決策支援展示一系列串接整合
Direction of Work Flow: The system is connected and integrated, from collection, inspection and data addendum and saving, to updated flood alert and decision support display.

檢核機制：自動監控，掌握資料進出狀態，提供各式維護報表，作為問題原因分析及改善追蹤
Inspection Mechanism: Automatic control, keeps abreast of data flow and provides all maintenance reports for troubleshooting and improvements.

Communication Method: Wireless, satellite, microwave, dedicated line and multi-port dial-up system.
Methods for ensuring smooth data collection: fixed-time transmission, automatic insertion in data bank.
Direction of Work Flow: The system is connected and integrated, from collection, inspection and data addendum and saving, to updated flood alert and decision support display.

Inspection Mechanism: Automatic control, keeps abreast of data flow and provides all maintenance reports for troubleshooting and improvements.



淡水河流域洪水預報系統

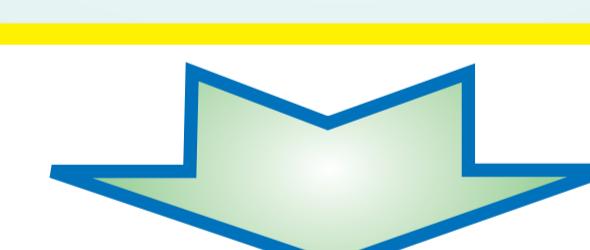
Tamshui River Flood Forecasting System

系統以淡水河流域16集水分區為基礎，預報淡水河流域各支流(大漢溪、新店溪、基隆河)1-6小時之水位及流量
The system is based on the Tamshui River Basin's 16 catchment zones, and issues an alert for the water level and volume during the next 1-6 hours for the main tributaries in the Tamshui River Basin (Tahan Stream, Hsintien Stream, Keelung River), plus automatically starts and engages the Tamshui River Basin alert system.

自動化驅動並執行淡水河流域預報系統，達成全天候水情預報能力
This achieves round-the-clock water condition alert capabilities and inflow volume alerts for the Shihmen and Feitsui Reservoir catchment areas.

系統正進行石門水庫、翡翠水庫集水區入流量預報，以及員山子分洪分洪量預測
Plus the flood diversion alert system for the Yuanshantzu diversion can save the results for the typhoon or torrential rain event for prediction analysis or reference adjustment.

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淡水河流域防洪資訊暨展示系統

Tamshui River Basin Flood Warning System

氣象展示：颱風軌跡圖、衛星雲圖、累積雨量圖、分區/全區雷達回波圖等
Meteorological Display: Typhoon Trajectory Chart, Satellite Cloud Chart, Accumulated Rainfall Chart, Partial/Full District Radar Echo Chart

水情展示：雨量/水位/抽水站分布圖、雨量組織圖、水位/抽水站歷史線圖、逐時雨量/水位表、抽水站即時影像
Water Condition Display: Distribution of Rainfall/Water Level/Water Pump Station, Rainfall Organization Chart, Water Level/Water Pump Historical Chart, Rainfall/Water Level Chart Over Time, Water Pump Station Real-time Video

水庫展示：大壩現況圖、水庫歷史線圖、水庫運轉規線圖、水庫逐時水位/流量表
Reservoir Display: Dam Conditions, Reservoir Historical Charts, Reservoir Water Level/Volume Chart

洪水預報展示：水位歷史線計算與實測比較圖、水位流量率定曲線圖、全流域水位/流量縱波圖、16分區平均雨量圖表、河口天文潮位預測圖、橫段面及水位流量圖
Flood Alert Display: Comparison of Water Level Historical Calculations and Actual Results, Water Level Volume Rate Fixed Flow Chart, Complete Basin Water Level Volume Longitudinal Wave Chart, 16 District Average Rainfall Chart, Estuary Astronomical Tide Alert Chart, Cross Section and Water Level Volume Chart Operation Chart, Reservoir Water Level/Volume Chart Over Time

Meteorological Display: Typhoon Trajectory Chart, Satellite Cloud Chart, Flood Alert Display: Comparison of Water Level Historical Calculations and Actual Results, Water Level Volume Rate Fixed Flow Chart, Complete Basin Water Level Volume Longitudinal Wave Chart, 16 District Average Rainfall Chart, Estuary Astronomical Tide Alert Chart, Cross Section and Water Level Volume Chart Operation Chart, Reservoir Water Level/Volume Chart Over Time

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
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淡水河流域水文氣象通信網路


Tamshui River Basin Hydrology and Meteorology Communications Network





淡水河自動化洪水預警系統


Automatic Flood Early Warning System For Tamsui River





淡水河流域洪水預測模式流程圖

Flow Chart for Tamshui River Basin Flood Alert Model





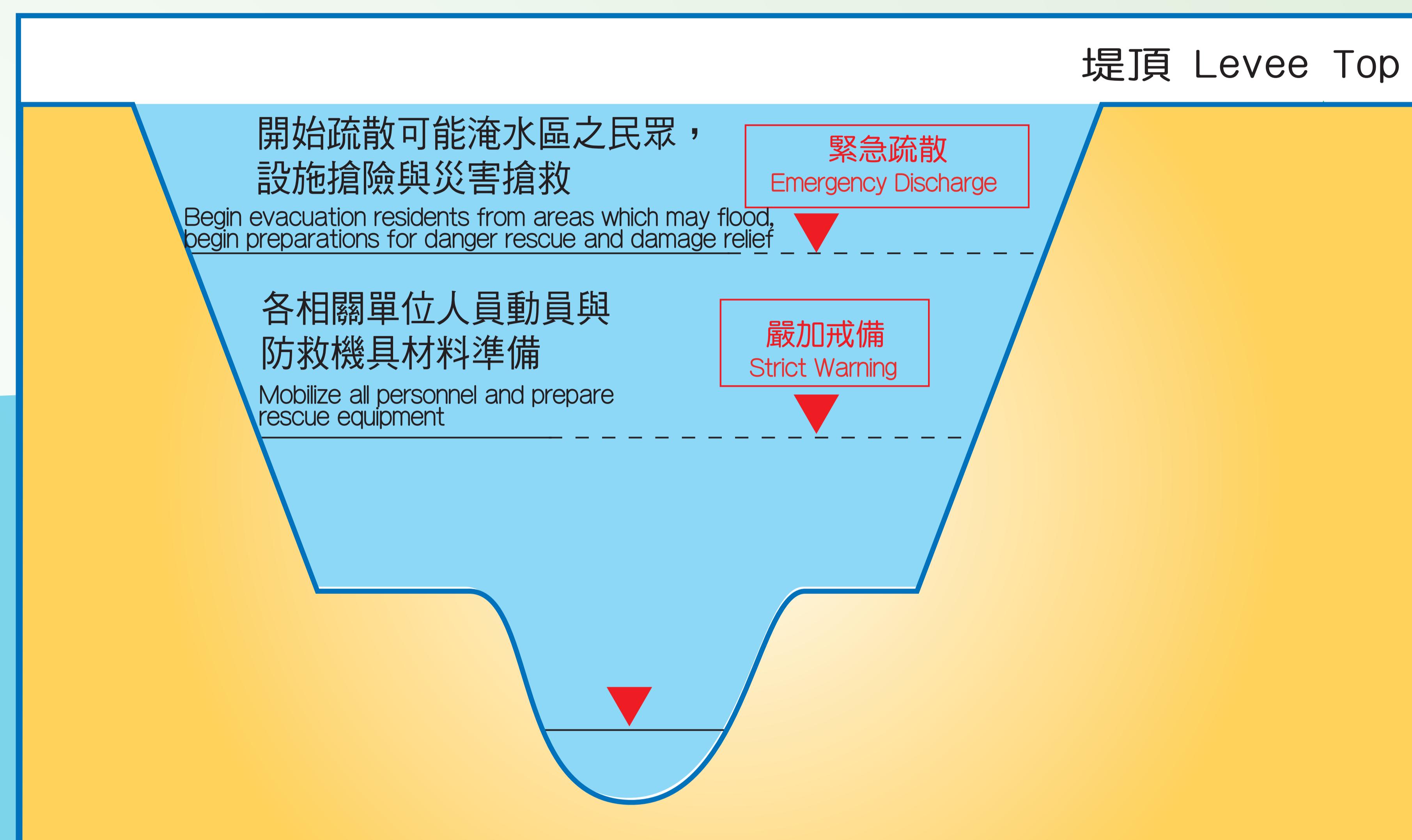
洪水預報系統的警戒分級機制

Flood Alert System Warning Level Mechanism

警戒水位與河道斷面關係示意圖
Alert Water Level and River Cross-Section Chart

洪水預警系統三級警戒水位定義
(以淡水河為例)

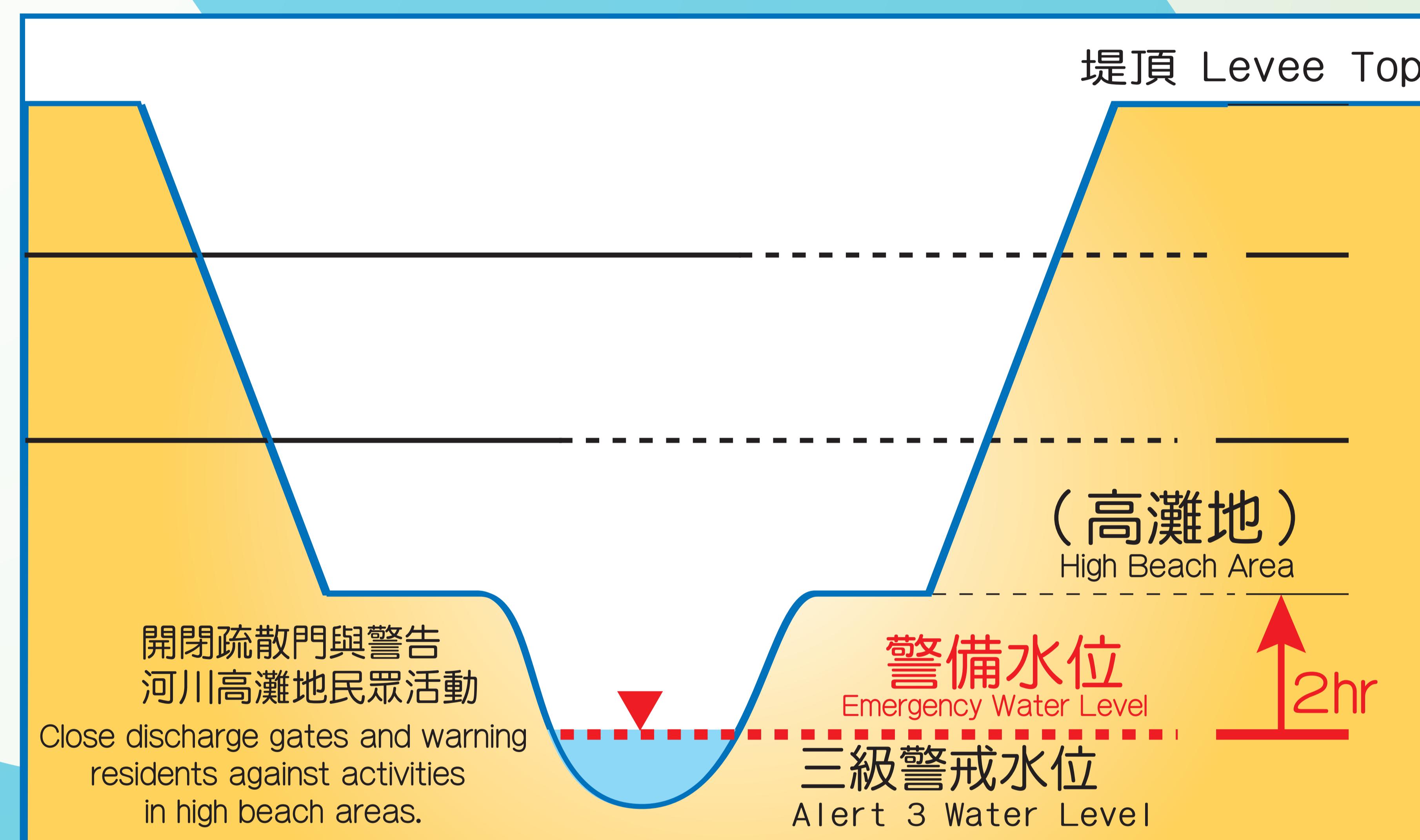
Definitions of Flood Prediction
Systems Three Levels of Alerts
(ex : Tanshui River)



三級警戒水位：係為水防準備

當河川水位未來二小時內可能超過高灘地高程
立即通知縣市政府關閉水門、疏散門及抽水站
準備防汛工作，民眾應離開行水區。

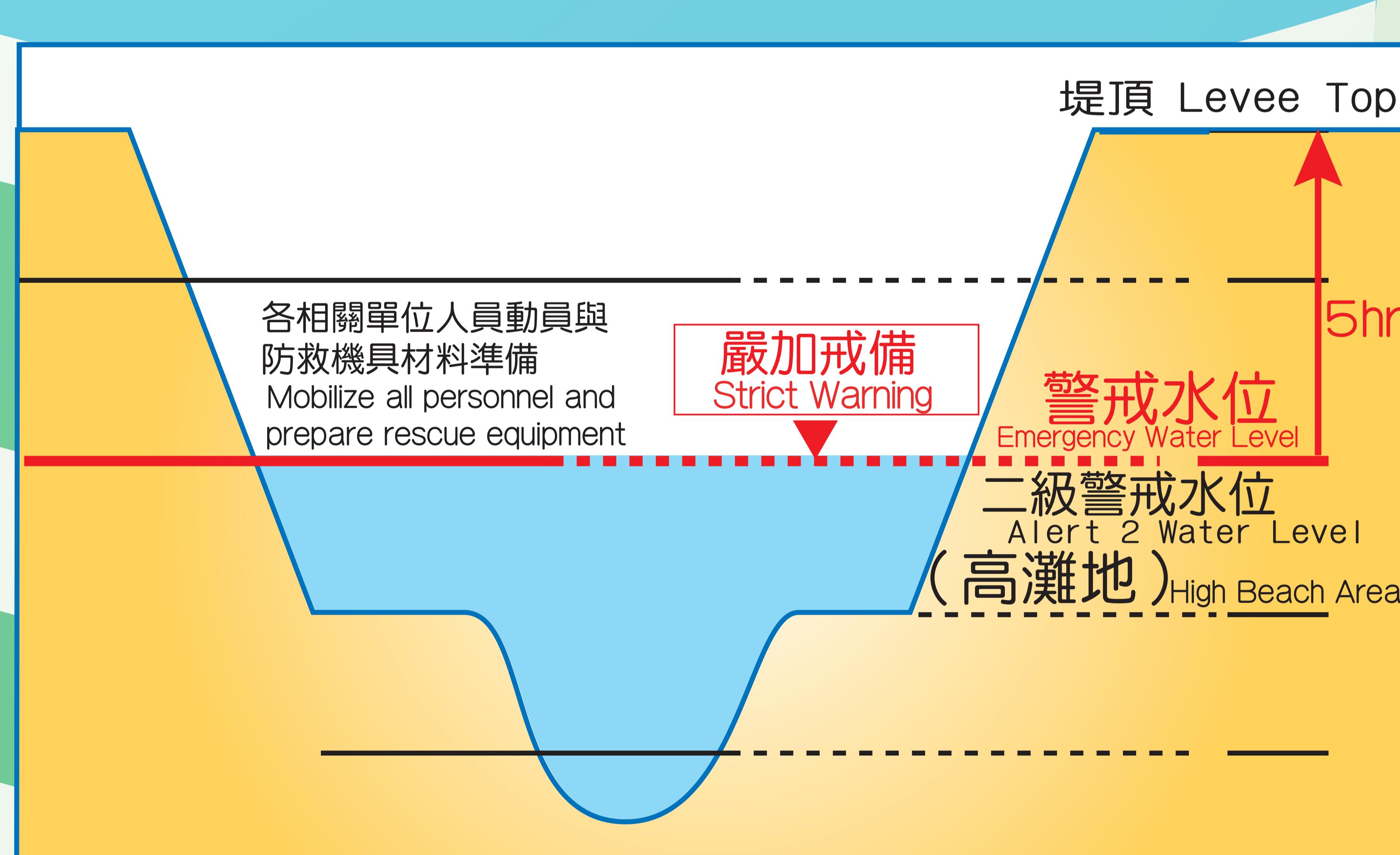
Alert Level 3 Water Level: Refers to preparation level for possible flooding.
Indicates that within the next two hours the water levels may surpass the highest level along the riverbank, and local government must be notified to close water gates and discharge gates, and that pumping stations should prepare for flood waters. Residents should leave water flow areas.



二級警戒水位：

即表示未來五小時河川水位可能超過現堤岸高程時，
疏散低窪地區居民，各防汛單位動員準備防救災機具材料
及嚴加戒備。並管制橋樑、封堵涵洞及啟動防汛應變措施。

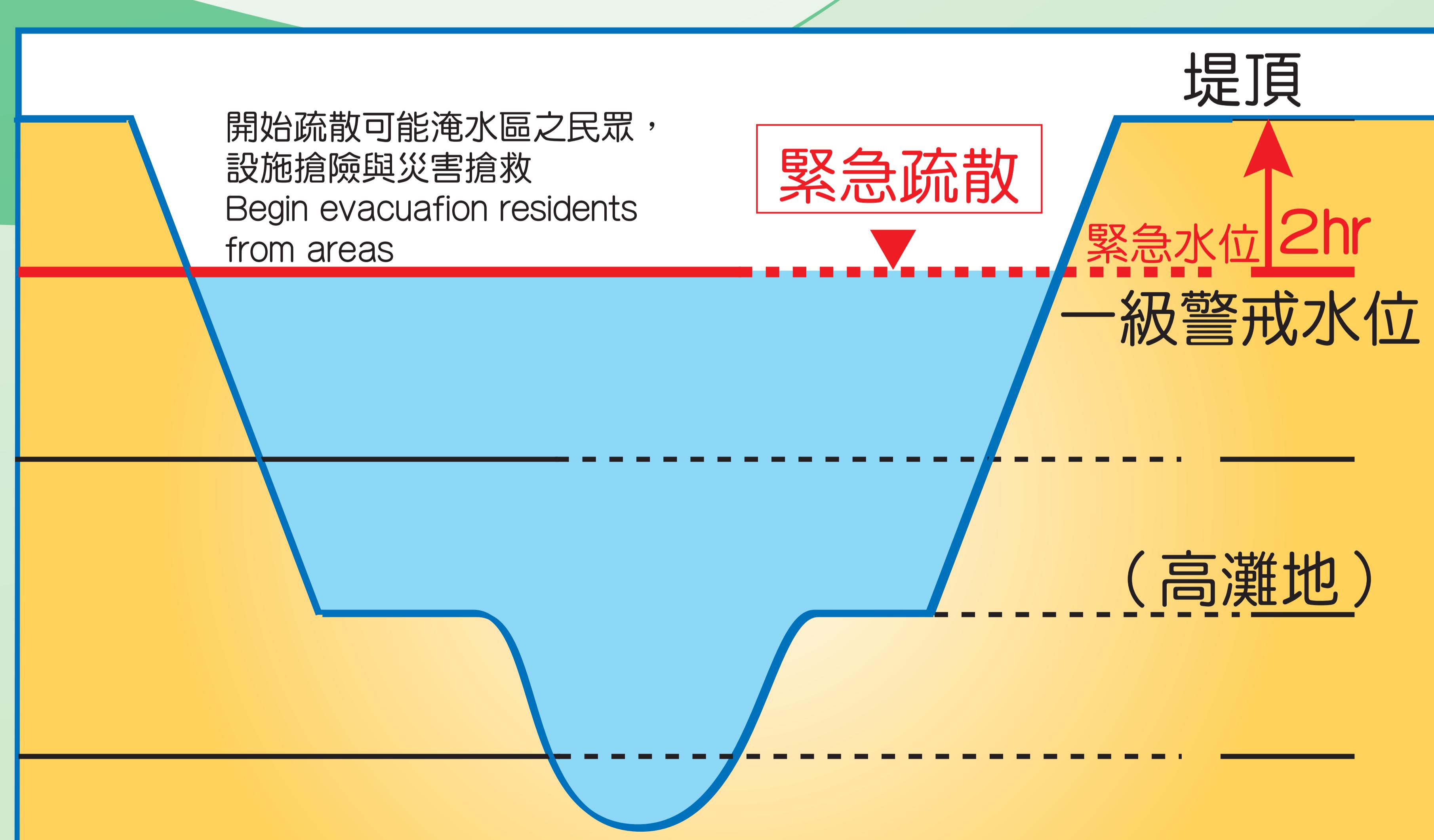
Alert Level 2 Water Level: Indicates the river's water level may surpass the dike levels within five hours. Low-lying residents should be evacuated, all flood control agencies should mobilize flood prevention equipment and be sternly prepared. Plus, restrictions should be imposed on bridges, tunnels shut and flood control response system initiated.



一級警戒水位：

即河川水位已達到計畫洪水位，或未來二小時可能超過現有堤岸高程之緊急水位時，決定疏散低窪地區居民時機及開始疏散可能淹水民眾，設施搶險，災害搶救，做緊急疏散措施。

Alert Level 1: The river's water level has already reached the predetermined flood level, or within 2 hours the water level may reach the emergency level and possibly exceed existing dikes. The time for evacuating low-lying areas and residents must be decided. In areas that may flood, plans must be made to evacuate residents, begin relief and rescue operations and commence emergency evacuations.





基隆河流域淹水警戒系統

Keelung River Basin Flood Warning System



台北縣、基隆市淹水警戒站分布

Distribution of Taipei County, Keelung City Flood Warning Stations



設置目的：
配合基隆河洪水預報系統及淹水預警系統之建置，將各警戒站目前淹水狀況回傳至淡水河防洪指揮系統，以適時提供決策者整合之資訊。

預期成果：
整合水文監測系統、洪水預報系統、淹水偵測及淹水潛勢資料成果。

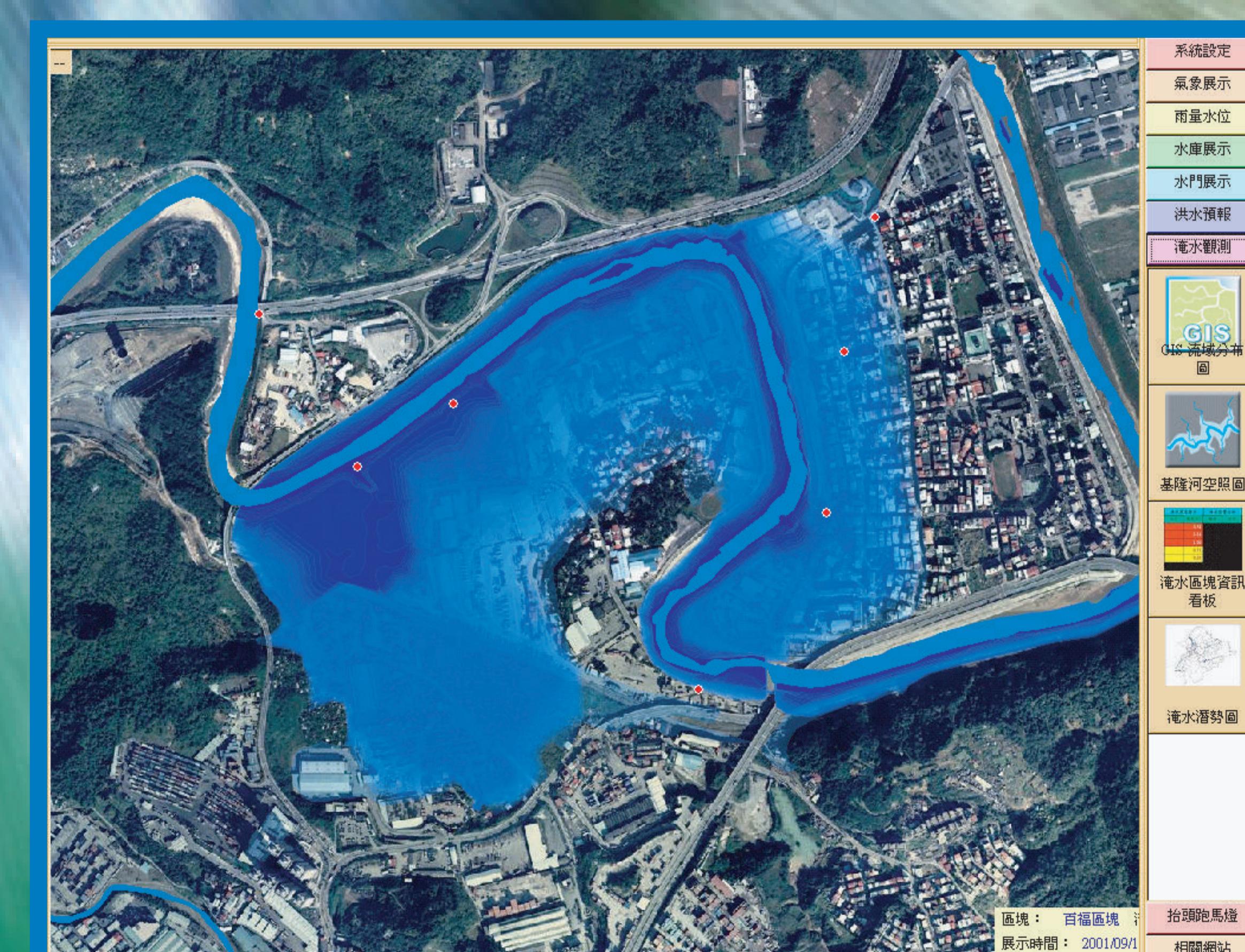
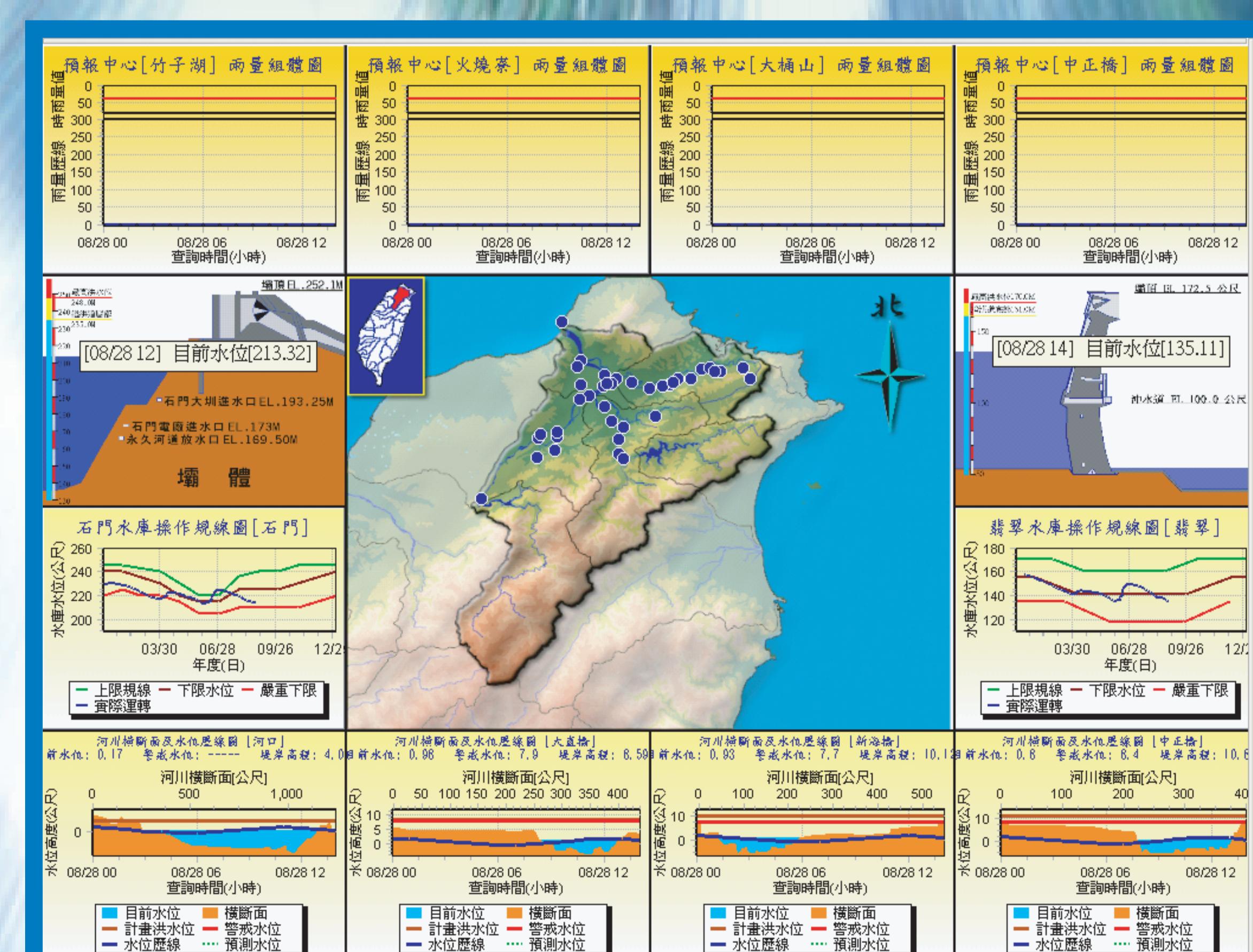
Construction Goal:
Working in tandem with the completion of the Keelung River Flood Alert System and On-land Flood Alert System, it reports the current status of each warning station to the Tanshui River Flood Command System to provide timely and integrated data to the decision makers.

Prediction Results:
Integrates the results from the Hydrological Monitoring System, Flood Alert System, Flood Detection and Flooding Potential.



架構說明：
1.由台北縣政府、基隆市政府分別在容易淹水地區架設淹水警戒站
2.當颱風豪雨事件發生，各淹水警戒站透過專用網路即時傳回目前各地區淹水深度
3.執勤人員使用淡水河流域防洪資訊暨展示系統，整合各地區雨量、水位、淹水資料快速掌握水情現況並可提供各縣市政府應變參考

Framework Explanation:
1. Taipei County and Keelung City governments each install flood-warning stations in areas prone to flooding.
2. During typhoons or torrential rainfalls, each flood warning station provides updates on floodwater depths via a dedicated network.
3. Personnel use the Tamshui River Basin Flood Data and Display system to collate rainfall, water level and flood data from each area and keep abreast of the current situation, and then provide this to the county and city governments for their reference and response.





創新思維・再造水利新願景

Innovative Thinking - Rebuilding a New Future for Water Resources



Objective

展望未來，水利署已提出流域整合治水、生態治河、水源開發水政管理一元化、多元化水資源管理等方案，作為工作指南。以「提供量足質優水資源」及「保障人民免於洪澇威脅」，為水利署責無旁貸的責任，和全體人民共同攜手，再造台灣水利新願景。

Looking to the Future, the Water Resources Administration has already proposed numerous solutions that serve as a guide for our work, including river basin integrated water conservation, ecological river control, unified water resource development and management and diversified water resource management. WRA's duty bound responsibilities are "Providing Sufficient Superior Water Resources" and "Protecting the Public from the Threat of Floods". We work together with the people to build a new future for Taiwan's water resources.

計畫架構 Framework of Plan

水資源與綠化工程 Water and Green Construction

