

MARINE FORECAST

The third generation (WAM) model run in Thailand for determining sea condition and computing the waves in the Gulf of Thailand, Andaman Sea ($0^{\circ} - 25^{\circ} \text{ N}$, $90^{\circ} - 100^{\circ} \text{ E}$) and South China Sea ($0^{\circ} - 25^{\circ} \text{ N}$, $104^{\circ} - 114^{\circ} \text{ E}$).

Data assimilation, objective analysis and initialisation

Assimilation data	:	wave spectrum
Method of analysis	:	Optimal interpolation
Analyse variable	:	u and v components of surface wind
First guest	:	continuous 10 min.
Coverage	:	Gulf of Thailand, Andaman Sea, South China Sea

Model

Basic equation	:	wave energy equation
Forecast variable	:	$E(\varphi, \lambda, f, \theta, t)$
Boundary	:	NRLMRY winds at 10 m.
Initial data time	:	00 UTC
Forecast range	:	72 hr.
Time step	:	10 min.
Resolution	:	25 km.
Model output	:	significant wave height, wind direction

Wave and Wind Output

