Field Observations and Analyses

The following research activities will be undertaken:

Field observations and analyses of land-atmosphere interactions in the Loess Plateau

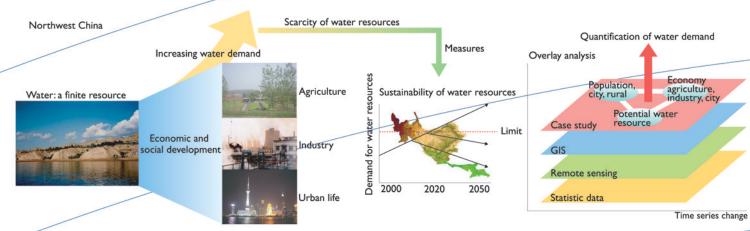
2 Development of a socio-economical model for sustainable developments

3 Field observations and analyses of interactions between river water, groundwater, and seawater in the Yellow River delta

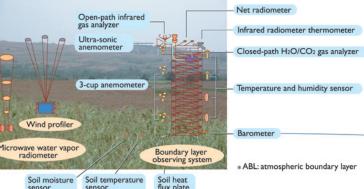
4 Development of an ecological model of the Bo-Hai Sea

Schematic diagram of flux observation tower (ABL* tower) and ABL observation systems

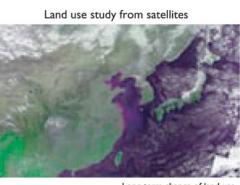
2 Socio-economical model for sustainable development



Interaction between atmosphere and land



G Clouds, precipitation, radiation and land use analyses



Long-term change of land use

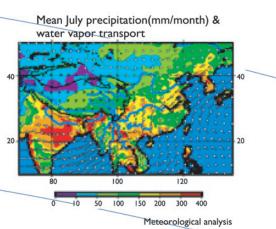
■ Human activities

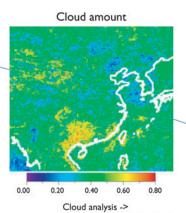
Model Development with 0.1° Grid Data

The following models with 0.1° grid data will be developed in the Yellow-River domain

6 Clouds, precipitation, radiation and land use model

6 Land and water management model





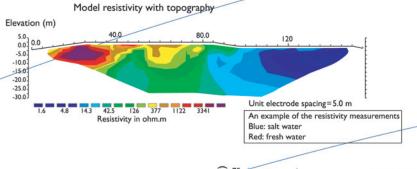
Radiation budget calculation

Effects of climate changes

Hydrological Cycle and Water Resources System

Integrated Model for Hydrology and Water Resources

Mountain **3** Interaction between groundwater, seawater and river water





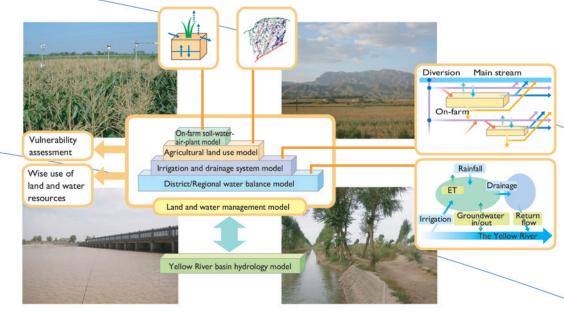


The Yellow River

River network

Land covers and land uses

6 Development of land and water management model



Effects of human activities

4 Ecological model of the Bo-Hai Sea

Seepage rates measured by an automated seepage meter

