

## **Project profile**

Forecasting Food Security under El Nino in Asia and the Pacific (ELNINO SEA)

### **In Brief:**

Under the support of the Government of Japan, the project aims to support policy formulation based on forecasts of the effect of climate change on agriculture and food production in Asia and the Pacific.

### **Overview**

Climate change associated with *El Niño* and *La Niña* episodes exert a dominant influence on agricultural production and food security. There is a growing concern about how global warming will affect the world's food production. Natural disasters have increased in frequency and many developing countries in Asia and the Pacific have experienced crop failures due to the unstable weather conditions. What will be the pattern of food production in the future? Under climate change conditions, how can food security be improved? These are some questions this project will try to answer.

### **Objectives**

This research project aims to develop an integrated system for policy planning to minimize the negative impacts of climate changes on agriculture and food production.

### **Methodology**

The project's approach entails data collection (rainfall, temperature, sunshine, soil texture, fertilizer application, etc.) in selected countries, modeling, prediction of crop production and policy formulation to mitigate negative impacts of climate changes.

### **Outputs**

The output of this project will be: adequate policy formulation for improvement of food security; agricultural diversification; and powerful tools to minimize the negative impacts of climate change on food security. They will be relevant not only the participating countries but also the other countries in the region which will be affected by the same climate changes.