

## Water Saving in the Tropical Agriculture

~~~SATREPS Egypt Project for the Nile Delta~~~

**March 15, 2015**

Kasuga Hall, University of Tsukuba

In developing countries especially in the tropics, the increase in the water demand will continue because of continuing population growth; water for newly irrigated agricultural land as well as drinking and industrial water. The water resources for those purposes cannot be easily found. Egypt, as well as other countries, needs to get the new water resource by saving water in the traditional agriculture such as in the Nile Delta. The SATREPS Egypt Project aimed to develop methods for water saving and sustainable agriculture based on scientific analyses of the present situation of the agriculture in the Delta. We would like to share and discuss our results of the 6-year project with researchers, policy makers and practitioners who are facing the same challenges.

**【Chairmen: Hany El-Shemy (Cairo University), Haruyuki Fujimaki (Tottori University)】**

| Time                      | Topic                                                                                                                | Presenter                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10:30<br>-11:00           | Opening address                                                                                                      | Prof. Hiroaki Inoue (President of JSTA)<br>Prof. Yasuo Miake (Vice president, Univ. of Tsukuba)<br>Embassy of Egypt<br>JST<br>Prof. Hany El-Shemy (Dean, Fac. of Agriculture, Cairo Univ.) |
| 11:00<br>-11:30           | Problems and challenge of agricultural development in Africa                                                         | Hironobu Shiwachi (Tokyo Univ. of Agriculture, Vice president of JSTA)                                                                                                                     |
| 11:30<br>-12:00           | Introduction to the project:<br>I. Water, soil and agriculture in Egypt<br>II. Aims of the project                   | Samir Aboulroos (Cairo University)<br>Masayoshi Satoh (University of Tsukuba)                                                                                                              |
| <b><i>Lunch Break</i></b> |                                                                                                                      |                                                                                                                                                                                            |
| 13:00<br>-13:40           | Field water consumption in the Nile Delta – Water saving irrigation and windbreak tree                               | Michiaki Sugita (Univ. of Tsukuba )                                                                                                                                                        |
| 13:40<br>-14:20           | I. Soil problems in the Nile Delta<br>II. Rice cultivation as a method of controlling salt accumulation in the Delta | Teruo Higashi (University of Tsukuba)<br>Bassiouni Zayed (Field Crop Res. Inst., ARC*)                                                                                                     |
| 14:20<br>-15:00           | I. Challenges of crop production<br>II. Water saving methods and crop responses                                      | Mohamed Soliman (Field Crop Res. Inst., ARC)<br>Sachio Maruyama (University of Tsukuba)                                                                                                    |
| <b><i>Tea Break</i></b>   |                                                                                                                      |                                                                                                                                                                                            |
| 15:10<br>-15:50           | I. Water resource in Egypt<br>II. Problems in irrigation and drainage management in the Nile Delta                   | Hisham Mustafa (Water Mgt. Res. Inst, NWRC**)<br>Talaat El Gamal (Water Mgt. Res. Inst, NWRC)                                                                                              |
| 15:50<br>-16:20           | Recommendations from the project                                                                                     | Masayoshi Satoh (University of Tsukuba)<br>Aki Kubota (University of Tsukuba)                                                                                                              |
| 16:20<br>-17:00           | Overall discussion                                                                                                   | Hany El-Shemy (Cairo University)<br>Masayoshi Satoh (University of Tsukuba)                                                                                                                |
| 17:00<br>-17:15           | Closing remark                                                                                                       | JICA                                                                                                                                                                                       |

\*ARC: Agriculture Research Center, Egypt. \*\*NWRC: National Water Research Center, Egypt.