

## CLIMAGRI – Climate Change and Agriculture

### FAO/UCEA CLIMAGRI*med* PROTOCOL FOR COLLABORATION

#### Development of a network in the Mediterranean region on climate change and agriculture

##### Technical component (iii)

Quality and homogeneity of meteorological data for construction of climate change scenarios

#### International Consultant on Climatological Data Analysis

##### Report of the First Mission to Cyprus

**Duration:** 14 – 16 January 2004

**International consultant:** Maurizio Maugeri

**Counterpart:** Cyprus Meteorological Service (MSCy) – 1418 Lefkosia, Cyprus.

**Principal researchers:** Theophilou Kyriakos (Director of the Meteorological Service), Stelios Pashiardis (Meteorological Officer A – phone: 00357 22 802911; Fax: 00357 22 305500; e-mail: [roc-mete@cytanet.com.cy](mailto:roc-mete@cytanet.com.cy)) Loizos Hadjioannou (Head of the Climatology Section), Sofia Louka (Meteorological Officer).

**Evaluation of the existing situation of the meteorological sector in terms of data availability, methodologies for analysis, logistic infrastructures and identification of a suitable counterpart for an effective transfer of methodologies:** MSCy seems to be a suitable counterpart as it is Cyprus National Office for Meteorology and Climate. It has good data availability with digitalised rainfall records for 80/90 years and longer records on paper. The availability of temperature data is lower, however there are 40/50 years of daily data and longer records of monthly ones. MSCy has an internal research team, good facilities for data analysis and good logistic infrastructures. It has performed interesting researches concerning both the characterisation of Cyprus Climate, and climate change and variability over the island.

**Factors which could hamper implementation of activities:** I didn't identify any particularly critical factor. As for all international projects it will be necessary to define the conditions under which the other participants can use the Cyprus data.

## **Work plan and schedule of activities:**

### **Preparation of data and metadata (first 6 months)**

- Separation of observed data from estimated ones
- Upgrading of precipitation records (i.e. digitisation of data before 1916)
- Verification of missing periods
- Presentation of data availability evolution on a yearly format
- Selection of the stations to use for data homogenisation (temperature and precipitation)

### **Quality control and homogenisation (months 3 to 9)**

Detailed work plan will be prepared in the second meeting

### **Data analysis (months 9 to 15).**

Detailed work plan will be prepared in the second meeting

**Identification of datasets to be collected:** a first proposal of stations was performed. In the next weeks MSCy scientists will study more in detail the problem of missing data then they will make the final proposal.

**Activities to be completed before the first mission of the counterpart:** before the first mission of the counterpart it is necessary to finish the preparation of data and metadata.