

# Z02

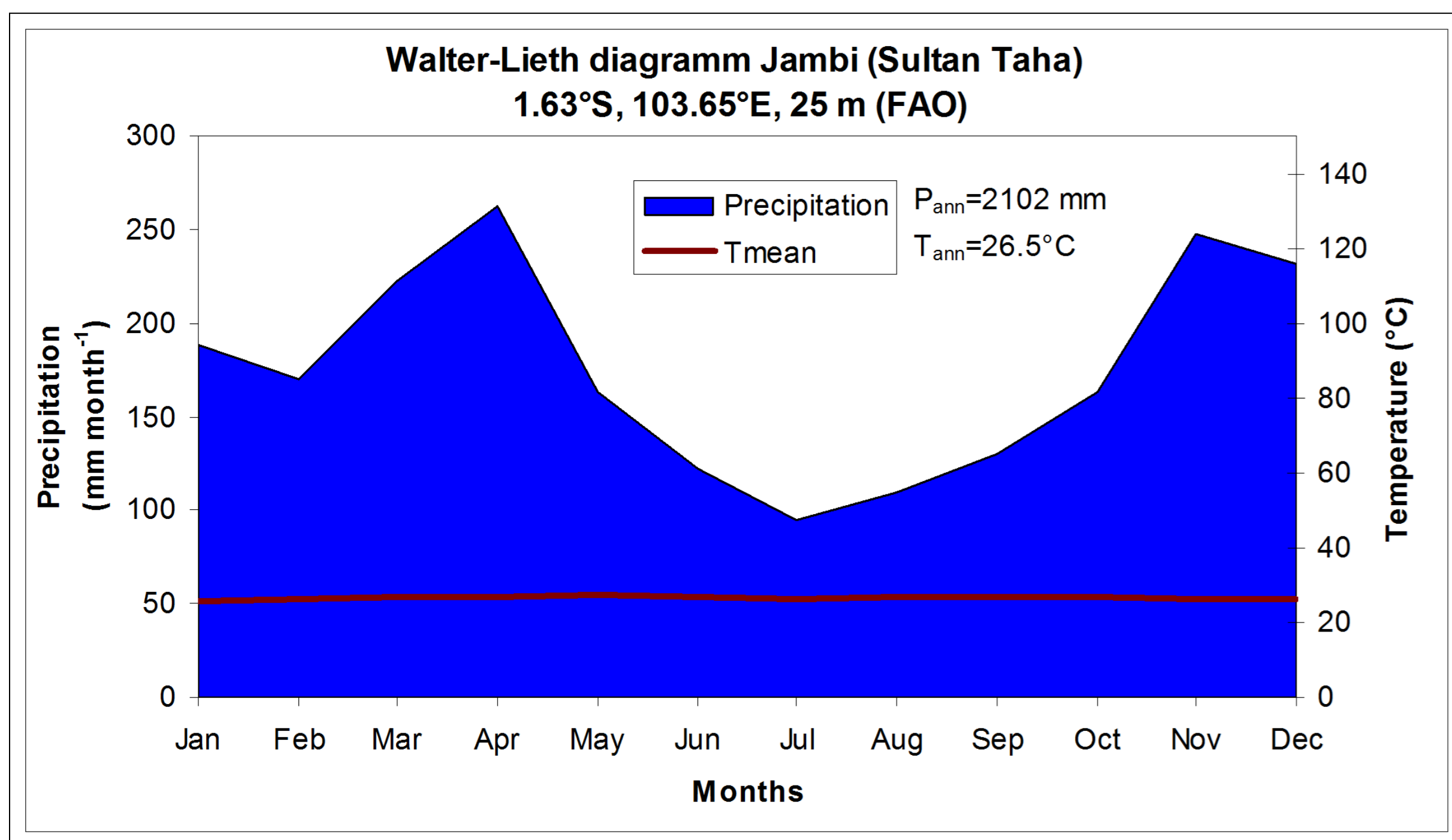
### Central Scientific Support – Meteorological Data

Ana Meijide, Oleg Panferov, Alexander Knohl

Dodo Gunawan

**Aim: To provide CRC 990 with meteorological data from core and reference sites**

#### Climatology of Jambi (1960-1990):



#### Meteorological stations at core plots

- 1 meteo station in each core plot

#### Plot distribution / core sites

- **2 Landscapes:**

- 1) Harapan
- 2) Bukit Duabelas

- **4 Transformation systems**

*F = forest*

*O = oil palm*

*R = rubber plantation*

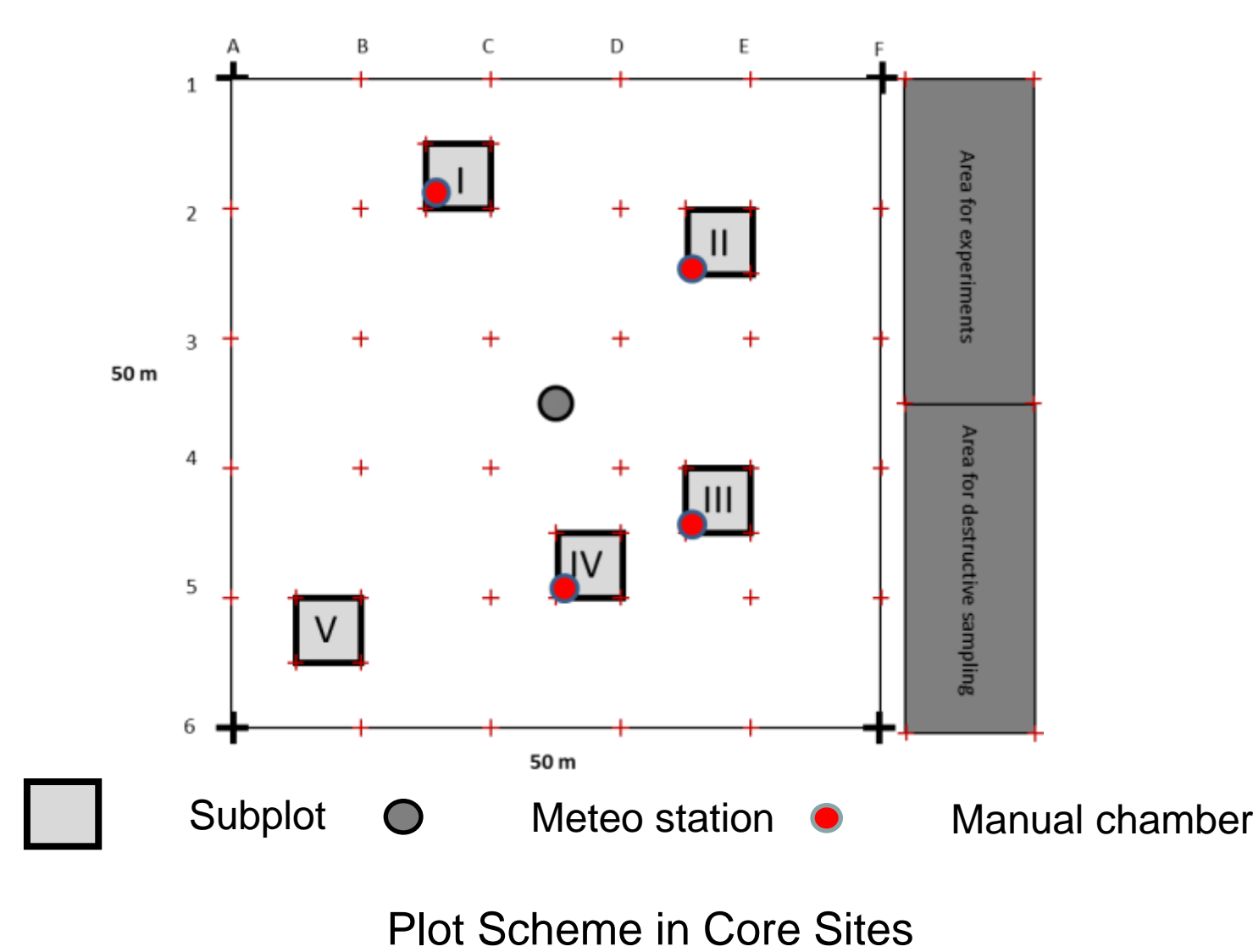
*J = jungle rubber*

- **4 replicates for each landscape and transformation system**

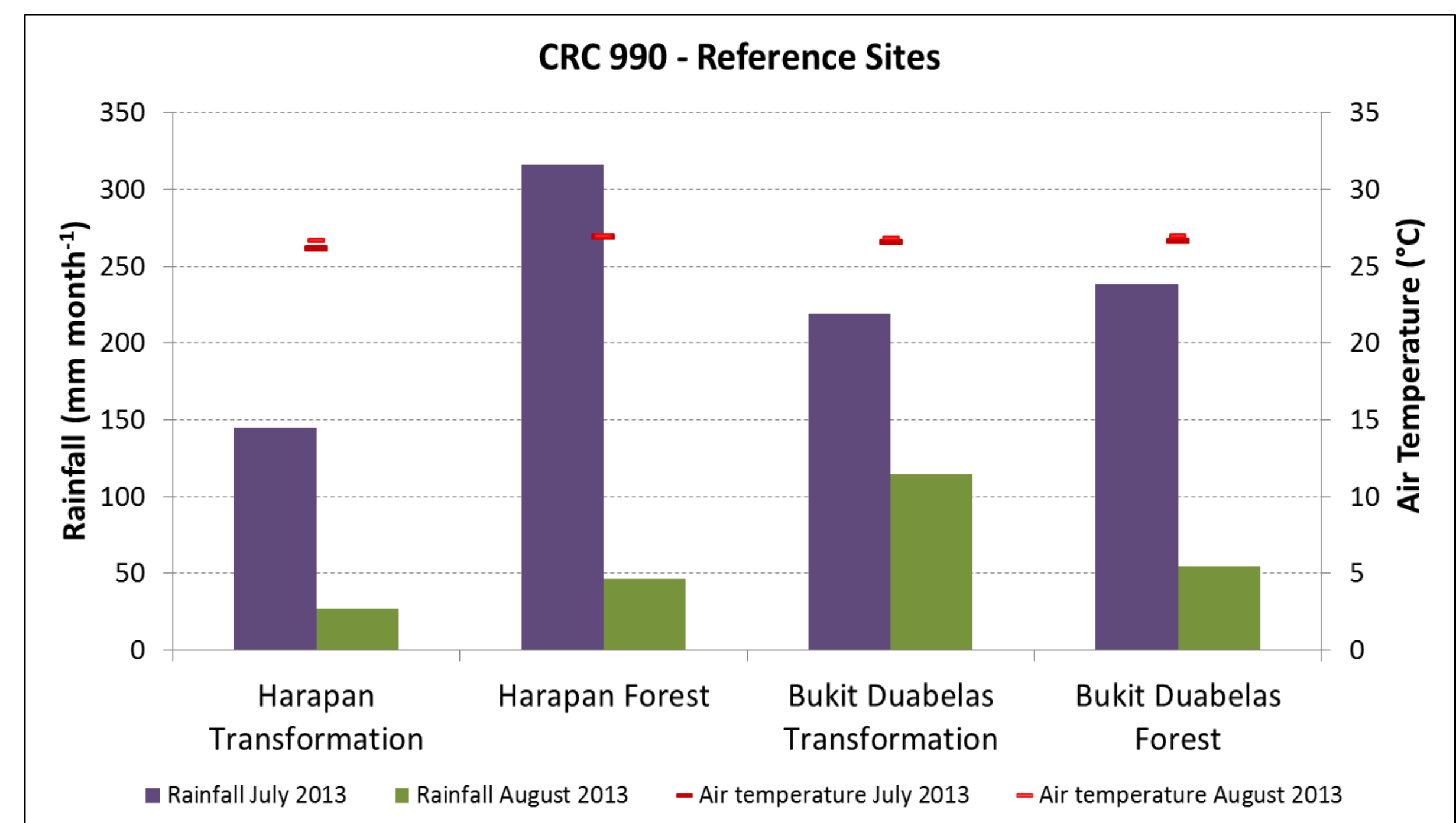
➔ **16 core sites per landscape ➔ 32 core sites in total**

- Variables measured (1 Hz, Average: hourly data):

- Air Temperature
- Relative humidity
- Soil temperature
- Soil moisture



#### Rainfall and Air Temperature in Jambi (July-August 2013):



#### Meteorological stations at reference sites

- 5 reference meteo stations :

- Harapan landscape:

- Forest: Reki
- Transformation Systems: Pompa Air (temporary location)

- Bukit Duabelas landscape:

- Forest: Permatang Kabau Ranger Station
- Transformation Systems: Lubuk Kepayang

- UNJA



Variables measured (1Hz, Average: 10 min. data):

- Wind speed, direction (3.5 m)
- Net radiation (3m)
- PAR (3m)
- Short wave radiation (3m)
- Air Temperature (0.5 and 2 m)
- Relative Humidity (0.5 and 2 m)
- Soil Moisture (x3 – 0.3m)
- Soil Temperature (x3 – 0.3m)
- Rainfall (x2)
- Air Pressure
- Soil Heat Flux

**All measurements available from June/July 2013**