

# eLocust2



a tool for locust officers  
to record & transmit data  
from the field to LCU

# eLocust2 – how RAMSES get its data



Wescor

# eLocust2 – how RAMSES get its data



1. Enter field data
2. Get GPS position
3. Send data via satellite
4. Process data
5. Send data by email into RAMSES



1



Locust  
officer

Wescor

# eLocust2 – how RAMSES get its data

GPS satellites



2



1

Locust  
officer

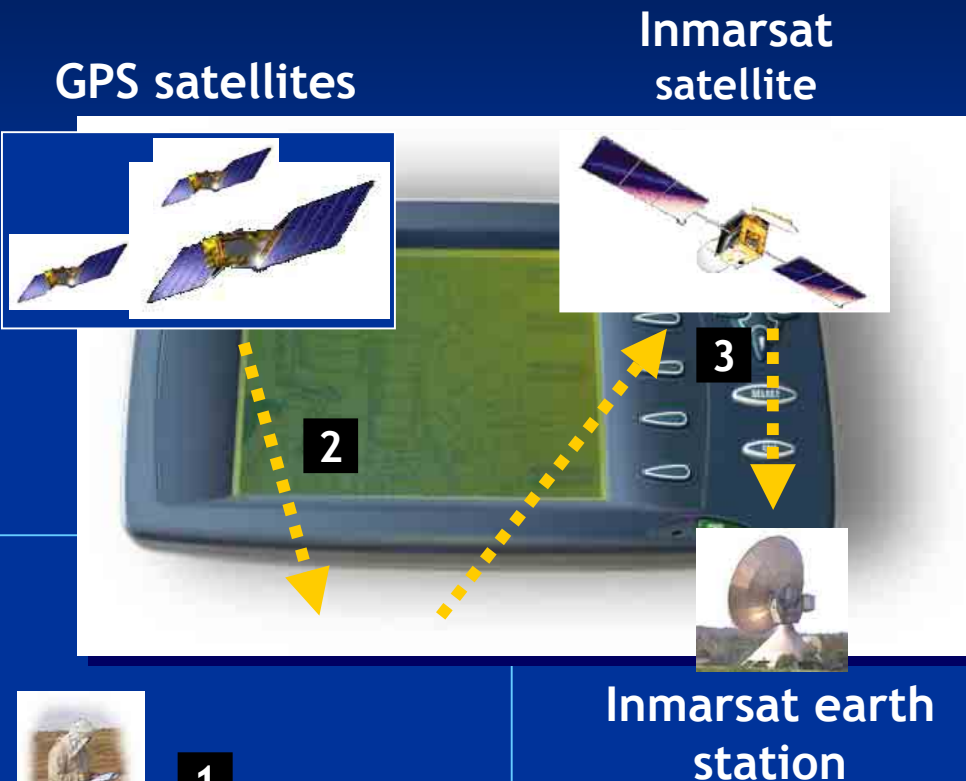
Wescor

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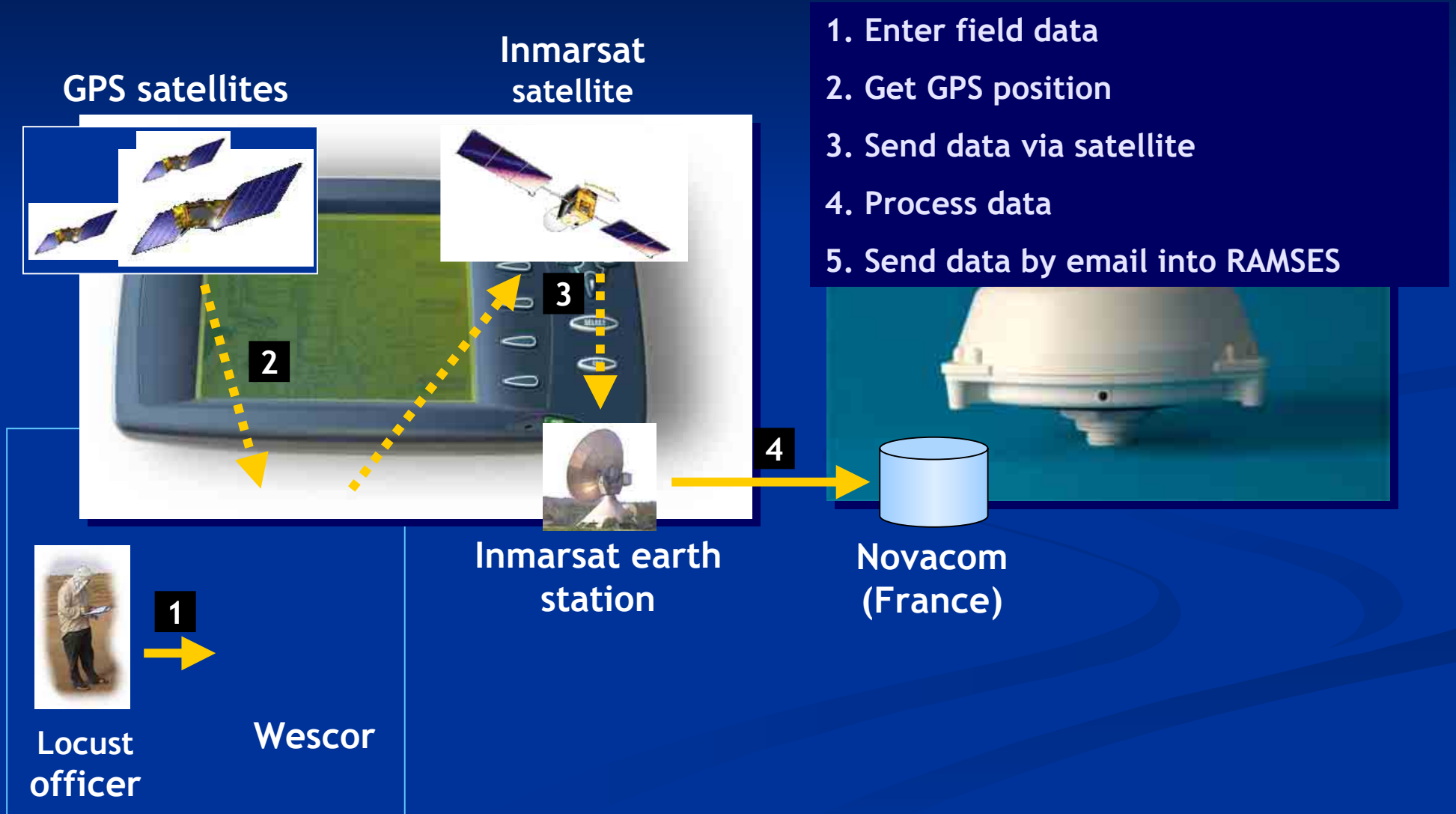
Locust officer



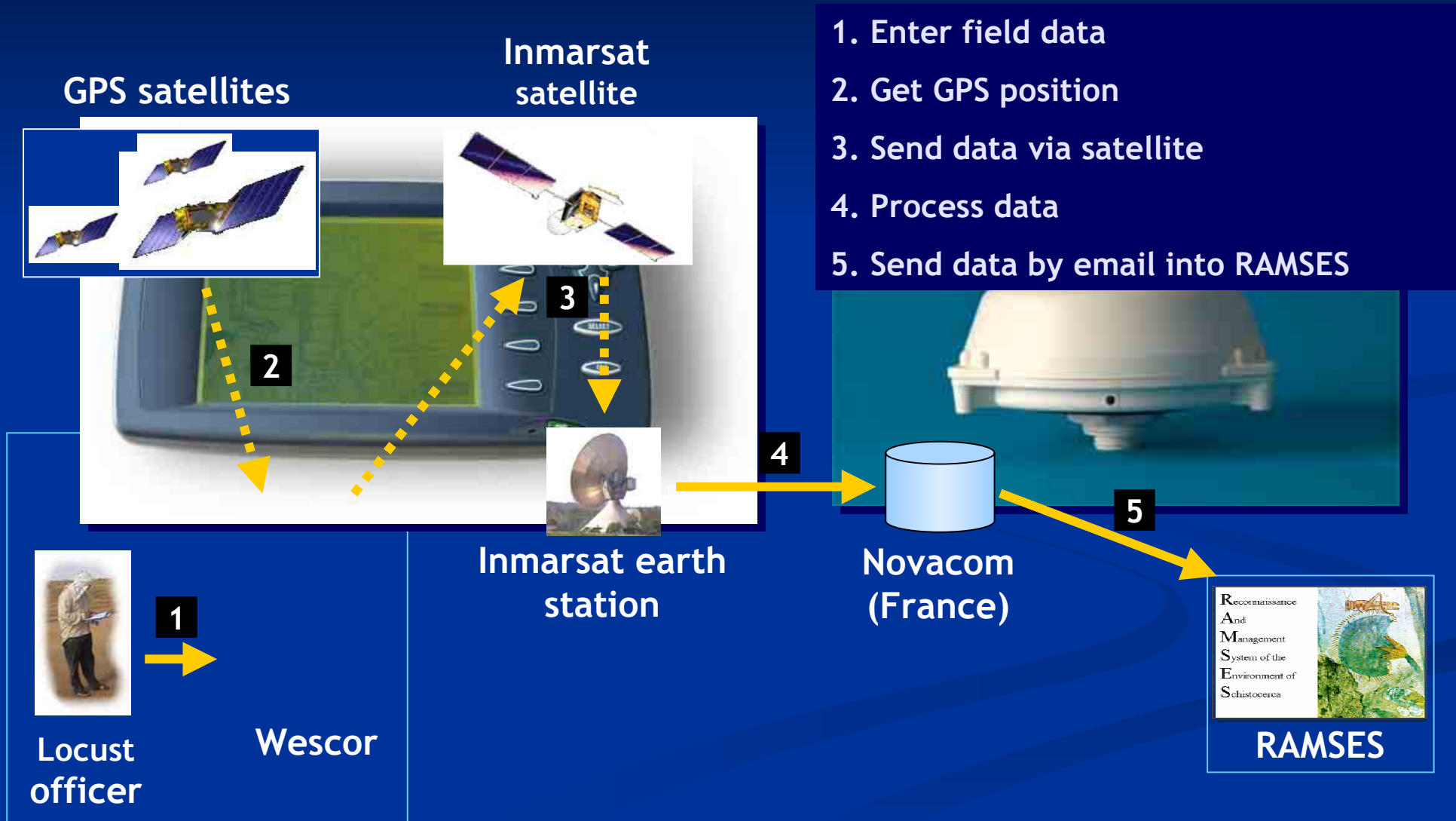
Wescor



# eLocust2 – how RAMSES get its data

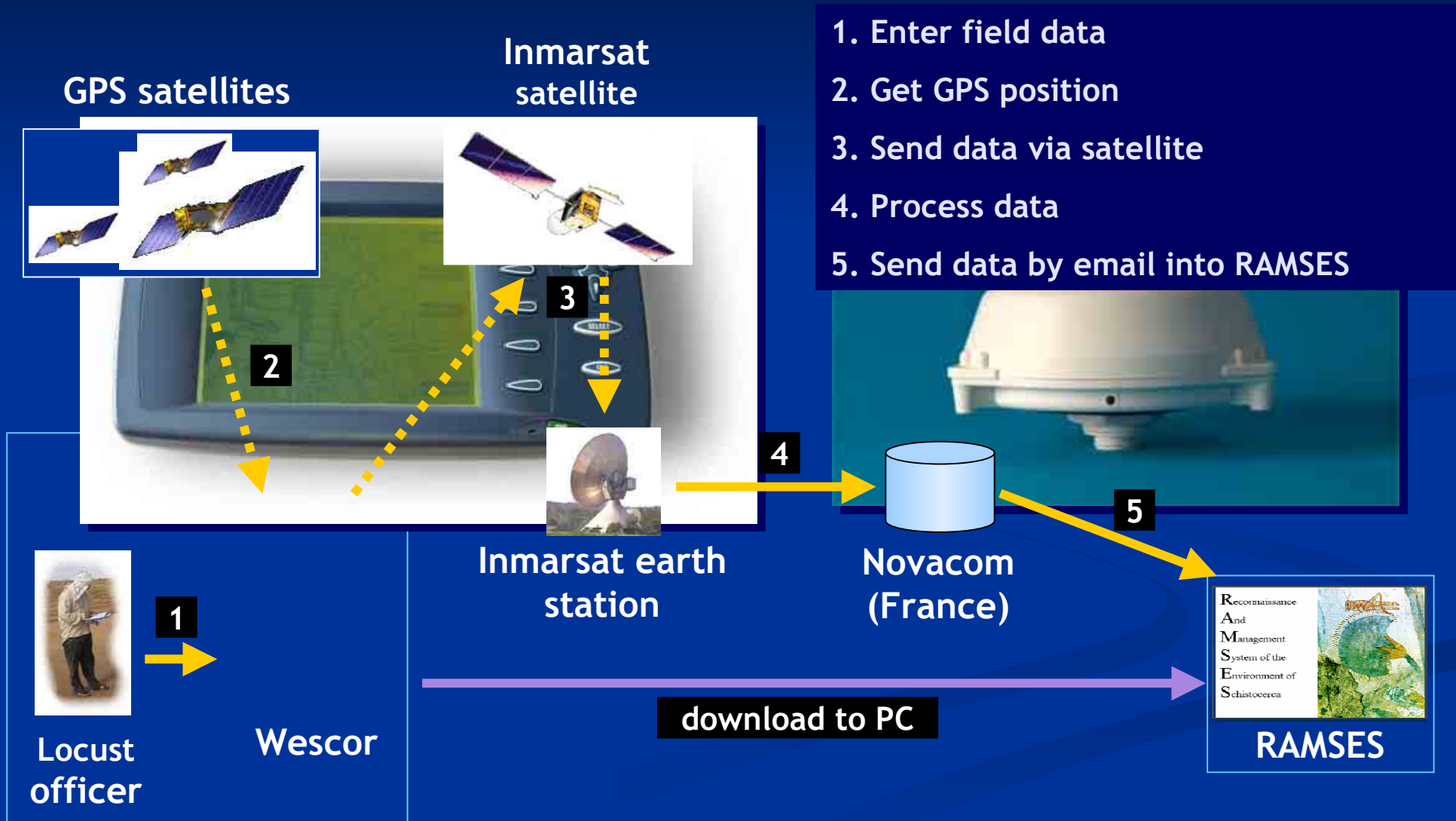


# eLocust2 – how RAMSES get its data





# eLocust2 – how RAMSES get its data





# Viewing eLocust2 data on the Internet

Customers area

Username :

Password :

Language :

English

Time zone :

GMT

OK

<http://platform.novacom-services.com>

# Viewing eLocust2 data on the Internet

novacom services

Date : 24/06/2005  
Heure : 17:29:31  
Fréquences (KHz) : 2.085

100 1000 10000  
1 10 0 100 1000 10000

novacom services

novacom services

Data consultation

Help Print Logout

Assets Time period

2 messages found

FAO

Consultation

Mapping

Current alarms

Send commands

Analysis

Latest values

Data

Configuration

Management

Supervision

Display

<input type="checkbox"/>	Date / Time	Asset	FAO Report	% kill	Adult behaviour	Adult breeding	Adult maturity	Adult phase	Adults seen	Area info
<input checked="" type="checkbox"/>	20/02/2006 14:56:12	LOCUST TEST	25	100	Groups	Laying	Maturing Mature	Gregarious	999	999
<input checked="" type="checkbox"/>	02/02/2006 10:30:32	FAO 02	3		Isolated		Immature	Solitary		12

2 messages found

Date and time are displayed with respect to the GMT time zone.

<http://platform.novacom-services.com>



<http://platform.novacom-services.com>



# RAMSES

**RAMSES**

Reconnaissance  
And  
Management  
System of the  
Environment of  
Schistocerca

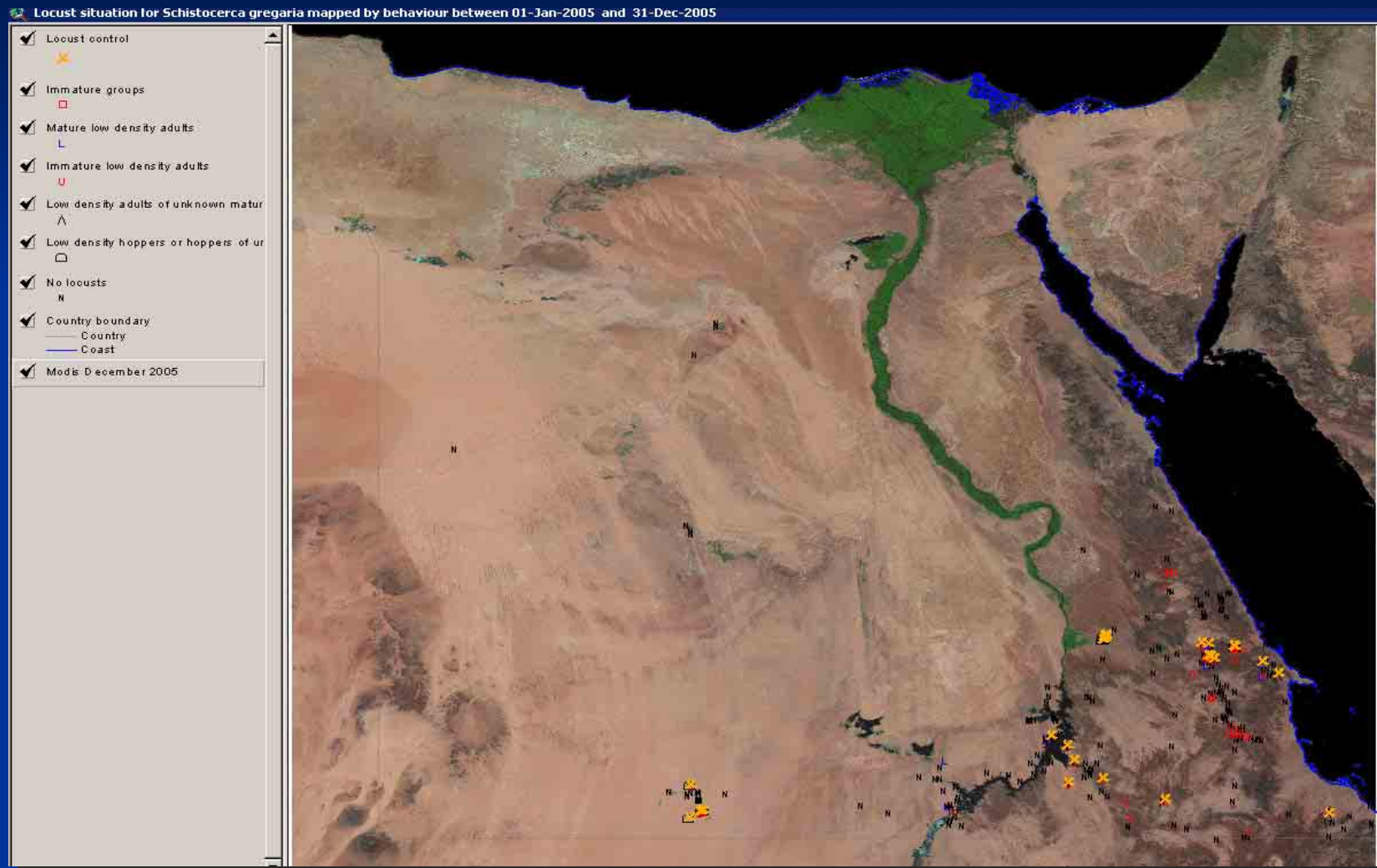


**Funding Agencies**  
Belgian Administration for Development Co-operation (BADC)  
United Kingdom Department For International Development (DFID)  
Food and Agriculture Organisation Emergency Prevention System (EMPRES)  
Food and Agriculture Organisation South-West Asia Desert Locust Commission

**Implementing agencies**  
Food and Agriculture Organisation of the United Nations (FAO)  
Natural Resources Institute, University of Greenwich (NRI)

a custom **geographic information system** used by NLCUs  
to manage and analyze locust and environmental data

# GIS functionality



display and analysis of data in a database

# 4 ways to enter weather data

RAMSES Database V3.1.8

## RAMSES Data Management

<b>LOCUST Observations</b>	<b>CONTROL Operations</b>
<b>RAIN STATION data</b>	<b>PHOTOGRAPHS</b>
<b>SURVEYS &amp; CONTROL AREAS Explorer</b>	
<b>EXPORT Data</b>	<b>IMPORT Data</b>
<b>Customised lists</b> <input type="text"/>	<b>Summaries</b> <input type="text"/>

**Close and Return to GIS Main Menu**

Funding Agencies

- Belgian Administration for Development Co-operation (BADC)
- United Kingdom Department For International Development (DFID)
- Food and Agriculture Organisation Emergency Prevention System (EMPRES)
- Food and Agriculture Organisation South-West Asia Desert Locust Commission (SWAC)

Implementing Agencies

- Food and Agriculture Organization of the United Nations
- Food and Agriculture Organisation Desert Locust Information System (DLIS)
- Natural Resources Institute, University of Greenwich, UK - to 2001
- Pender & Ritchie - from 2001

# 4 ways to enter weather data

1



RAMSES Database V3.1.8

## RAMSES Data Management

**LOCUST Observations**

CONTROL Operations

RAIN STATION data

PHOTOGRAPHS

SURVEYS & CONTROL AREAS Explorer

EXPORT Data

IMPORT Data

Customised lists

Summaries

Close and Return to GIS Main Menu

Funding Agencies

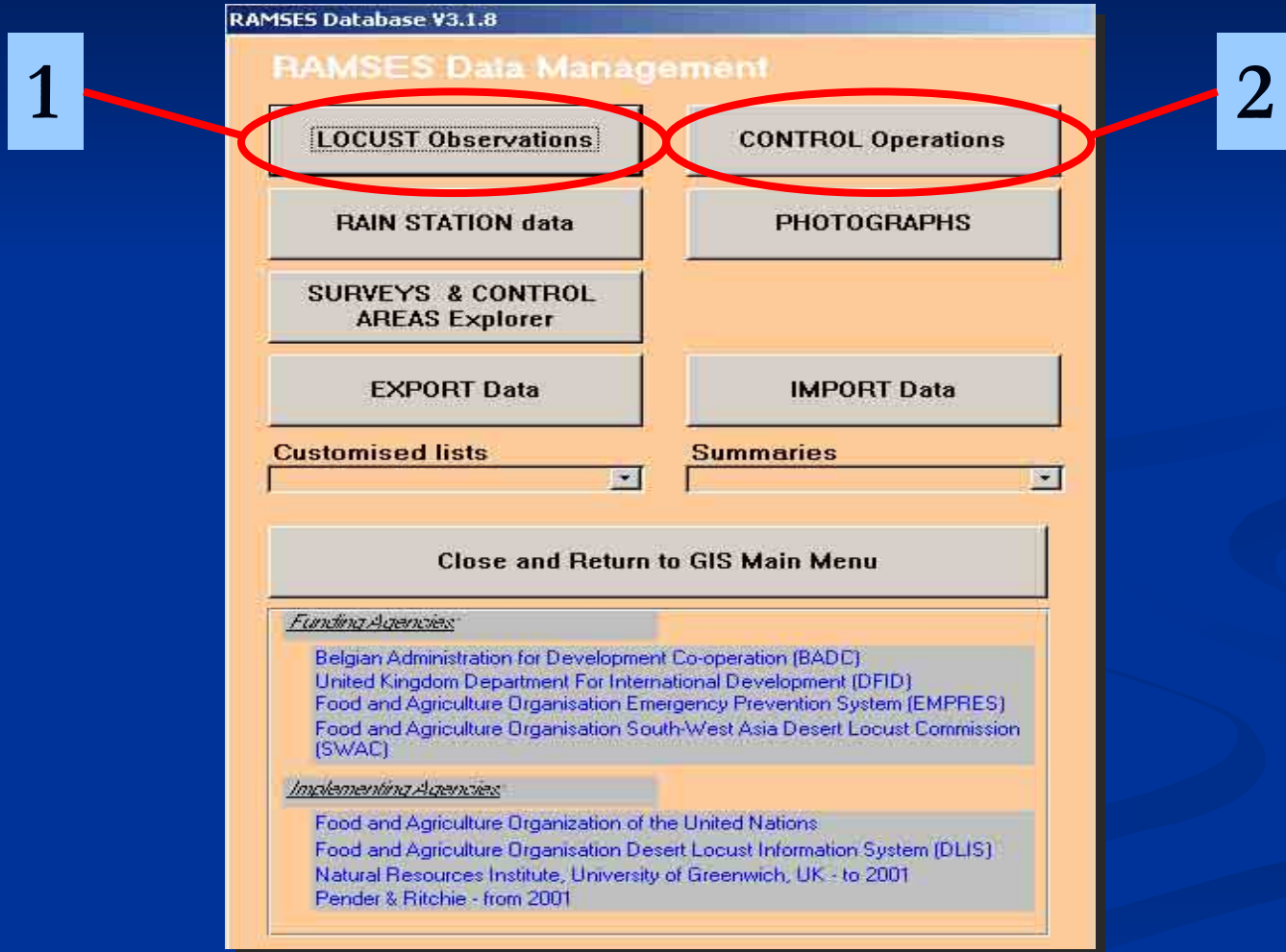
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Implementing Agencies

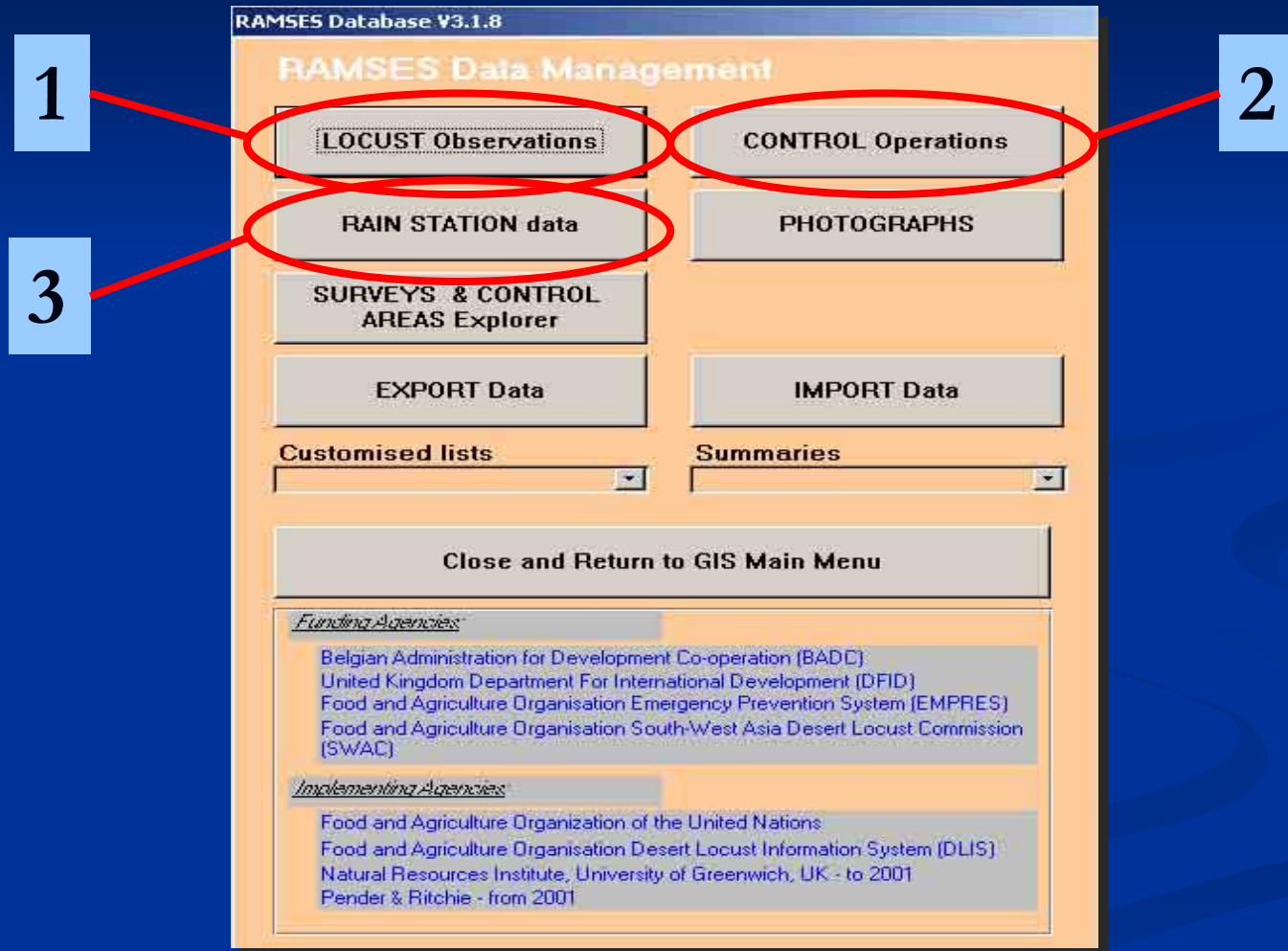
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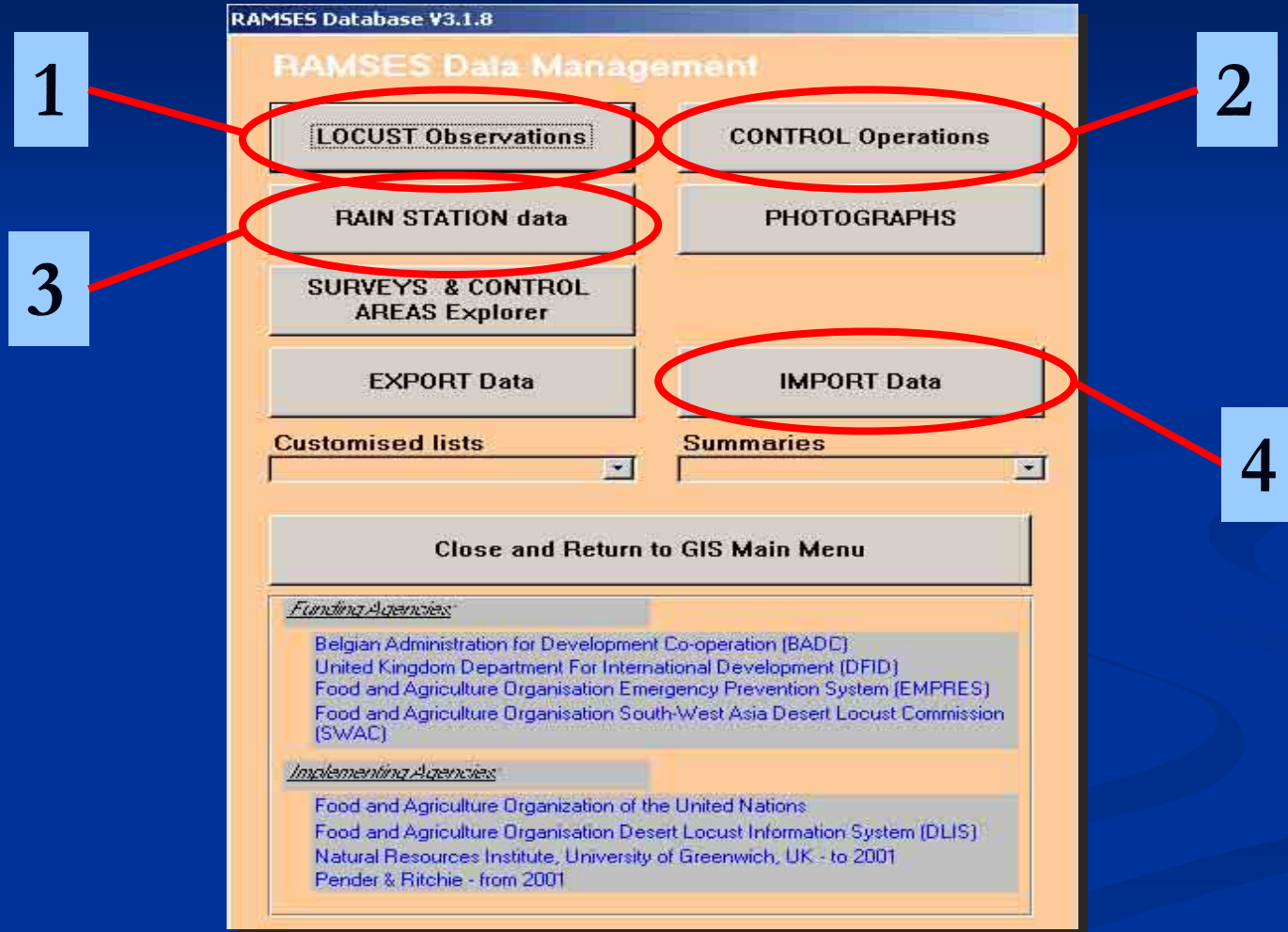
# 4 ways to enter weather data



# 4 ways to enter weather data



# 4 ways to enter weather data



# Weather observations at the survey site

1

The screenshot displays the 'Locust Management Tool - Egypt' software interface. The main window is titled 'Locust Observations' and contains a form for recording weather data. The form is organized into several sections:

- Header Section:** Includes fields for '1', '1', '29-Mar-2006 12:00', and 'Lat: 22, Long: 22'. Buttons for 'Add a new Record', 'Return to calling form', 'Return to Main Menu', and 'Return to GIS' are present.
- Navigation Tabs:** 'Time & Place', 'Quick Entry', 'Weather', 'Vegetation', 'Soils', 'Hoppers', 'Bands', 'Adults', 'Swarms', and 'Control'.
- Weather Data Section:**
  - Date of last rain or start of rainy period:** Fields for Day, Portion of month, Month, Year, Full date, and Approximate Date.
  - End of rainy period:** Fields for Day, Portion of month, Month, Year, Full date, and Approximate Date.
  - Approximate last rain period:** A text input field.
  - Rain amount (mm):** A text input field with the value '-9.0'.
  - Estimation of rain amount:** A dropdown menu.
  - Temperature (Celsius):** A text input field.
  - Wet bulb temperature (Celsius):** A text input field.
  - Relative humidity:** A text input field followed by a '%' symbol.
  - Cloud cover (oktas):** A dropdown menu.
  - Wind speed (m/sec):** A text input field.
  - Wind speed (Beaufort):** A text input field.
  - Wind Direction - From:** A dropdown menu.
  - Sand storm:** A checkbox.
  - Visibility:** A text input field followed by a unit dropdown menu (currently set to 'm').
- Navigation Buttons:** 'Next Page ....', 'Previous Page ....', and 'Clear'.
- Footer:** 'Record: 1 of 1' and 'Form View'.

data collected in the field by the locust survey team

# Meteo conditions at the control site

2

The screenshot displays the 'Locust Management Tool - Egypt' software interface. The main window is titled 'Control & Spray Monitoring' and contains several sections for data entry:

- VEGETATION:** Includes fields for 'Vegetation Type' (a dropdown menu), 'Vegetation Height' (a text field with a unit 'm'), and a table for recording damage.
- WEATHER CONDITIONS:** A table with columns for 'Start', 'End', and 'Duration' for various weather parameters: Time (hh:mm), Temperature (°C), Relative humidity (%), Wind speed (m/s), Wind direction (° from N), and Spray direction (° from N).
- INSECTICIDE:** Includes fields for 'Trade name' (dropdown), 'Common name' (dropdown), 'Concentration' (text field with a '%' dropdown), 'Formulation' (dropdown), 'Expiry Date' (text field), 'Is Insecticide Mixed with water or solvent?' (checkbox), 'Solvent Name' (text field), and 'Mixing Ratio' (text field).

At the bottom of the window, there is a status bar showing 'Record: 2 of 2 (Filtered)' and buttons for 'Next Page', 'Previous Page', and 'Clear'. The interface also features a menu bar (File, Edit, View, Insert, Format, Records, Tools, Window, Help, Adobe PDF) and a toolbar with various icons.

data collected in the field by the locust control team

# Daily rain station totals

3

Locust Management Tool - Egypt

File Edit View Insert Format Records Tools Window Help Adobe PDF

Type a question for help

MS Sans Serif 8 B I U

### Rainfall records from Rain Stations

Station Name: [icon] Year: 2006 Total for Year: 0 mm

Buttons: Add a New Yearly Rainfall Record, Save Yearly Rainfall Record, Amend/Add Station Details, Close Form and return to menu, Close Form and return to GIS

NAME	WMD_NO	Lat	Long	HEIGHT	Daily Rainfall (mm)											Overall Dekad Totals (mm)	Overall Month Total (mm)	Add a New Monthly Record
					Month	(Use -9 for no data, -1 for Trace, -999 means not used)												
						1	2	3	4	5	6	7	8	9	10	31		
	Dekad 1	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
	Dekad 2	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
	Dekad 3	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9

Record: 1 of 1

Record: 1 of 1

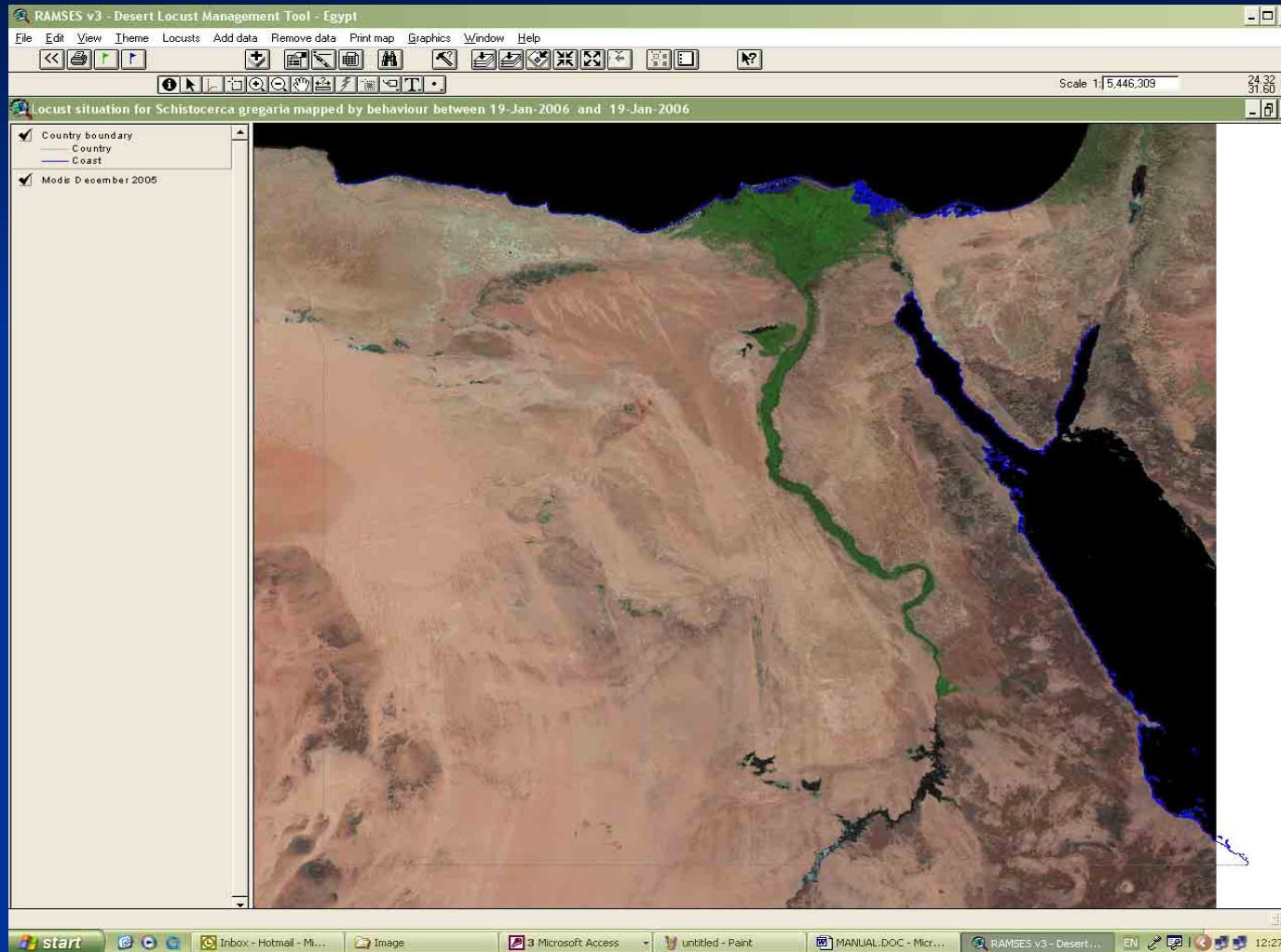
Form View NUM

completed in the office – allows for data import



# Weather data

4



map products received from NMHSs



# RAMSES can manage different meteo data

- field observations by survey/control teams
- daily rainfall station totals
- satellite and model-based rainfall estimates
- all types of map-based products

What can NMHSs provide ?