# Namibia Presentation

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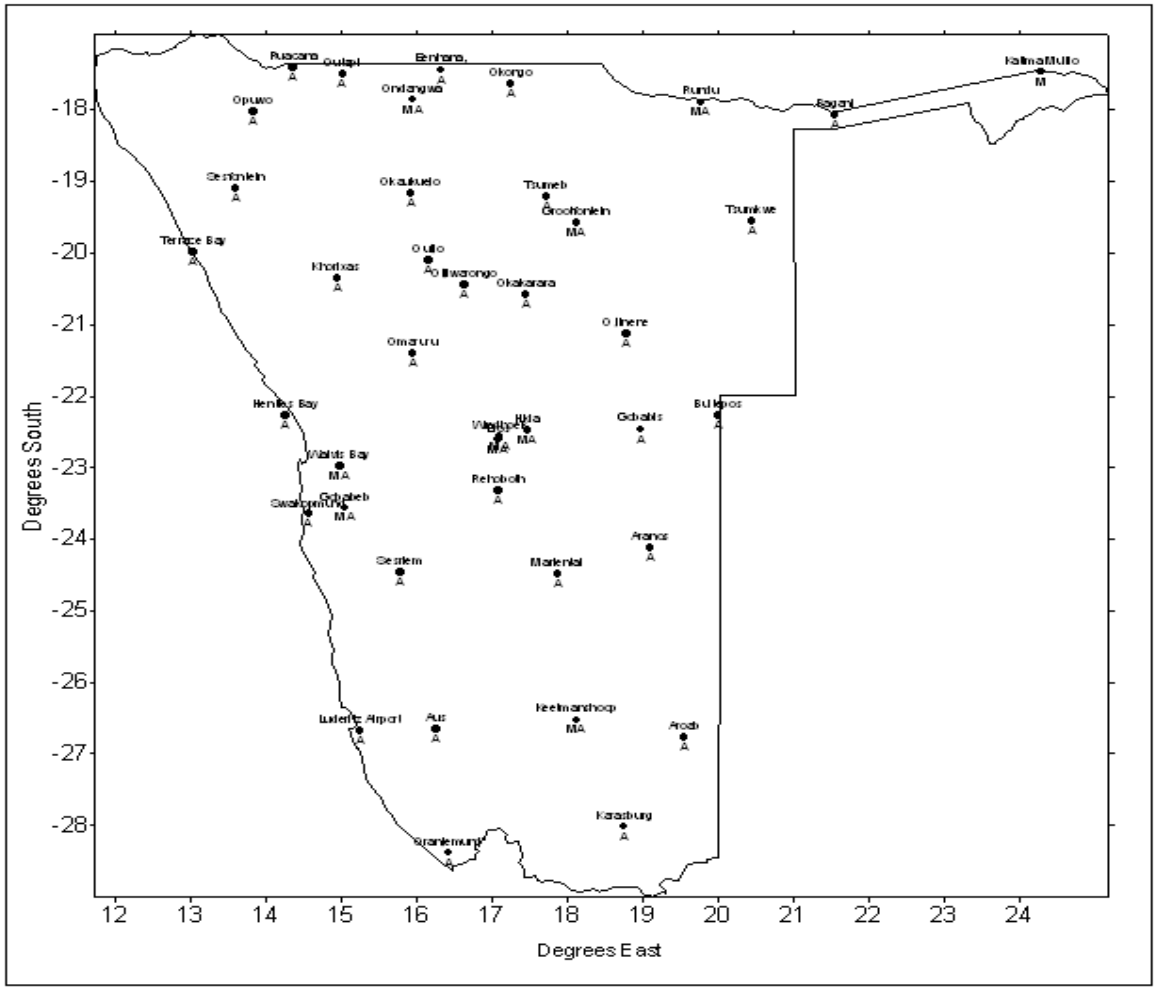
# Introduction

- ❖ Climate Data and Observations
- ❖ Climate Monitoring
- ❖ Users
- ❖ Climate Monitoring Products

# Climate Data and Observation

**Namibia Meteorological Service**

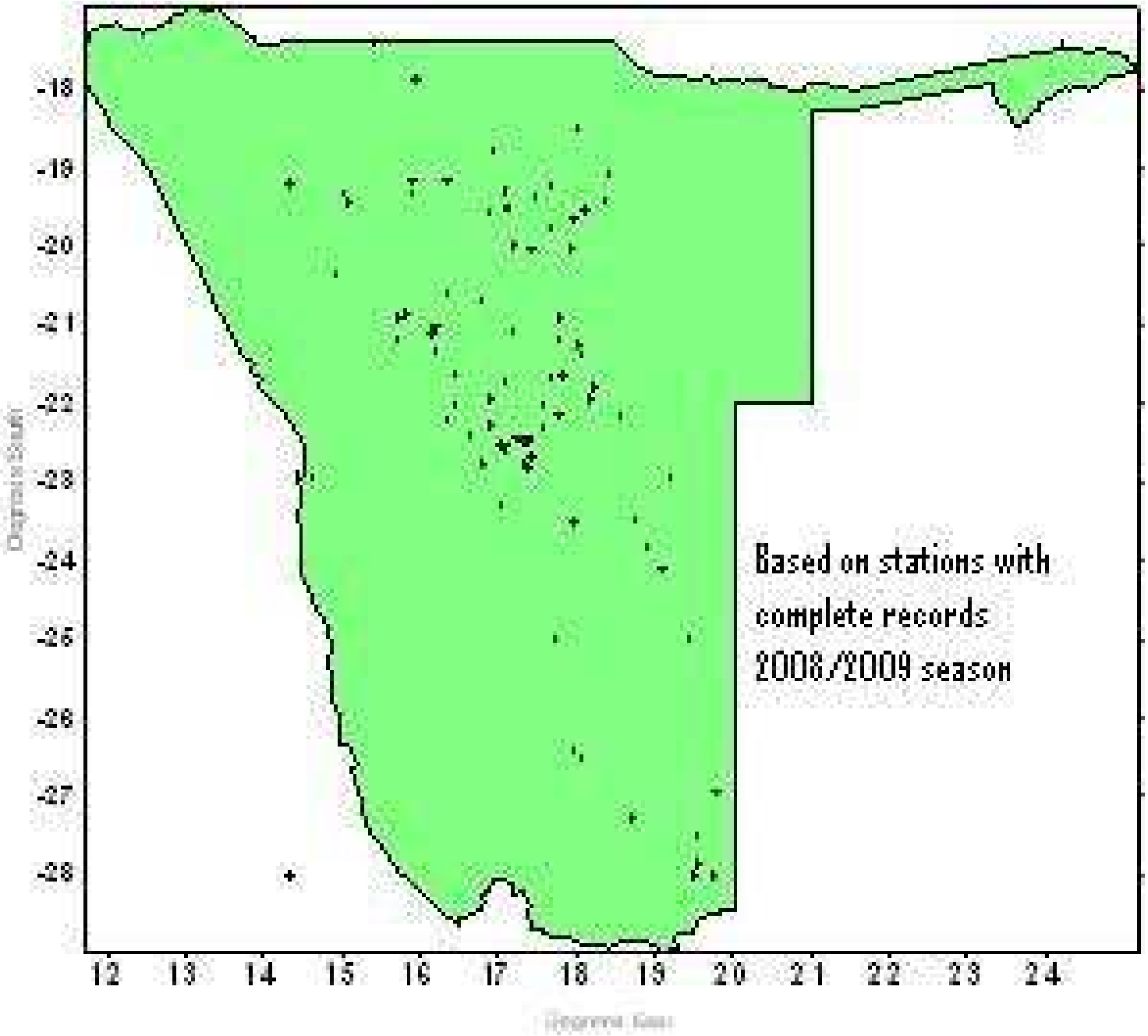
Network of Meteorological Offices (manned meteorological stations)
& Automatic Weather Stations (AWSs)




Legend:

| | | |
|---|---|---|
| M | = | Manned Stations |
| A | = | Automatic Weather Stations |
| MA | = | Manned Stations with AWSs as supplements |

# Climate Data and Observations – Rainfall Network



# Climate Data and Observations

- Climate data is collected from about 100 stations;
- 8 of these stations are synoptic stations, the rest are ‘rainfall-only’ stations;
- Climate data managed through Oracle based Clidata DBMS with Clicom in the background and used mainly for data-entry both at head office and in the regions.

# Climate Monitoring

- GCOS climate monitoring principles are applied to an extent possible within the limitation imposed by staffing and other constraints

- In particular, data management systems that facilitate access, use and interpretation of data products are included as essential elements of climate monitoring systems

## Regular Climate Monitoring Products and Reports

- Dekadal (i.e. 10-daily) Rainfall Bulletins (January to April)
- Monthly Rainfall Bulletins (October to April)
- Winter Temperature Bulletins (May to September)

# Users of Climate Information

- Climate data and information is disseminated to individuals and sectoral users that include:

a. Print and Electronic Media;
b. Agricultural users;
c. Water Resources;
d. Environment;
e. Education and Research;
f. Construction Industry
g. Health Authorities;
h. Legal and Insurance users and
i. Directorate of Disaster and Risk Management.

# Users of Climate Information ….. continued

**Sample Sectoral Distribution of Requests for Climate Information**

(Excludes the more numerous requests received and entirely transacted via telephone calls from users)

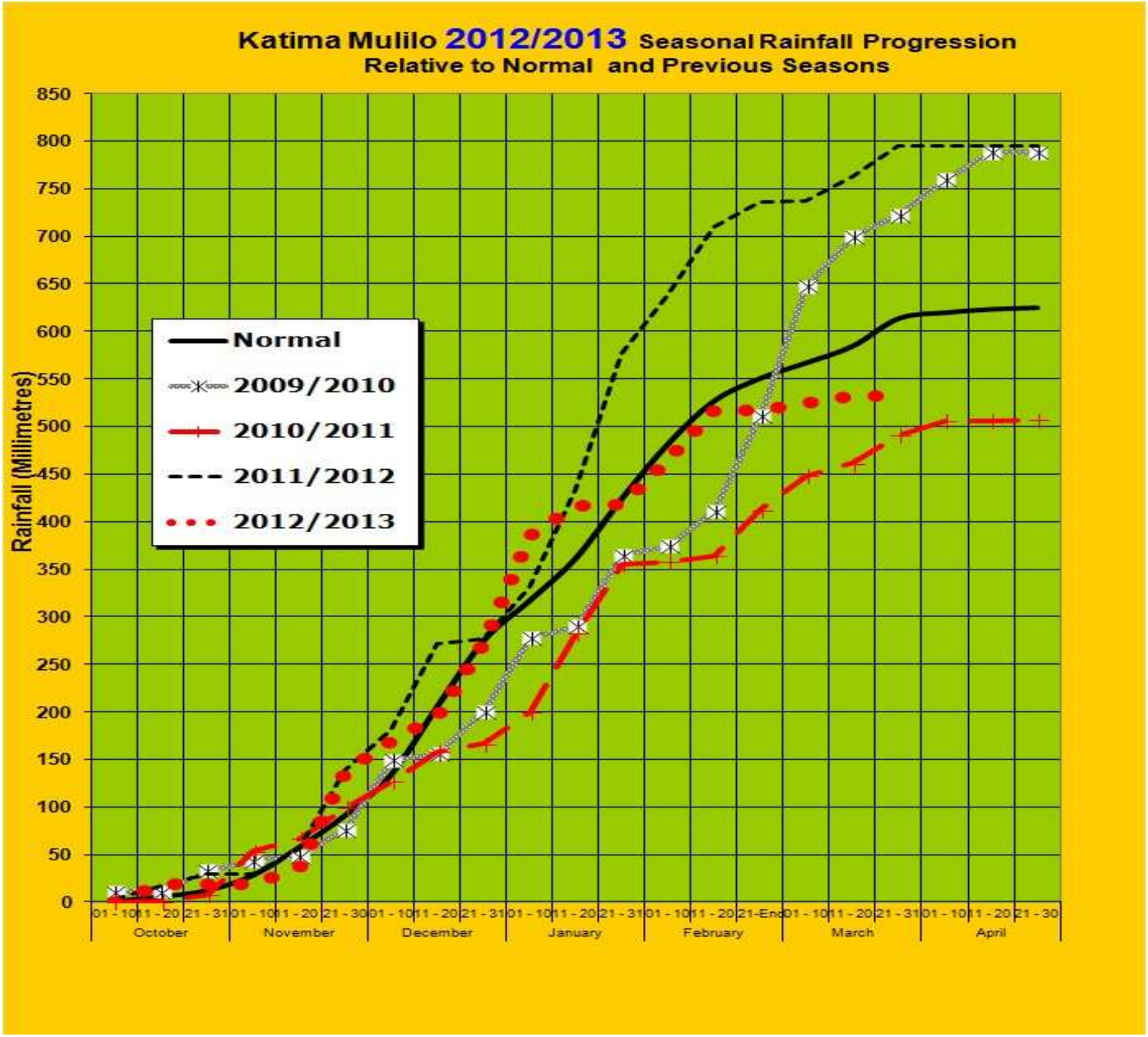
| User Sector | % of Total Requests |
|---|---|
| Agric & Water Resources | 31.3 |
| Education & Research | 25.4 |
| Tourism | 9.9 |
| Energy | 7.9 |
| Environment & Natural Resources | 7.6 |
| Transport (excluding aviation) | 5.3 |
| Building & Construction | 5.0 |
| Other | 7.6 |

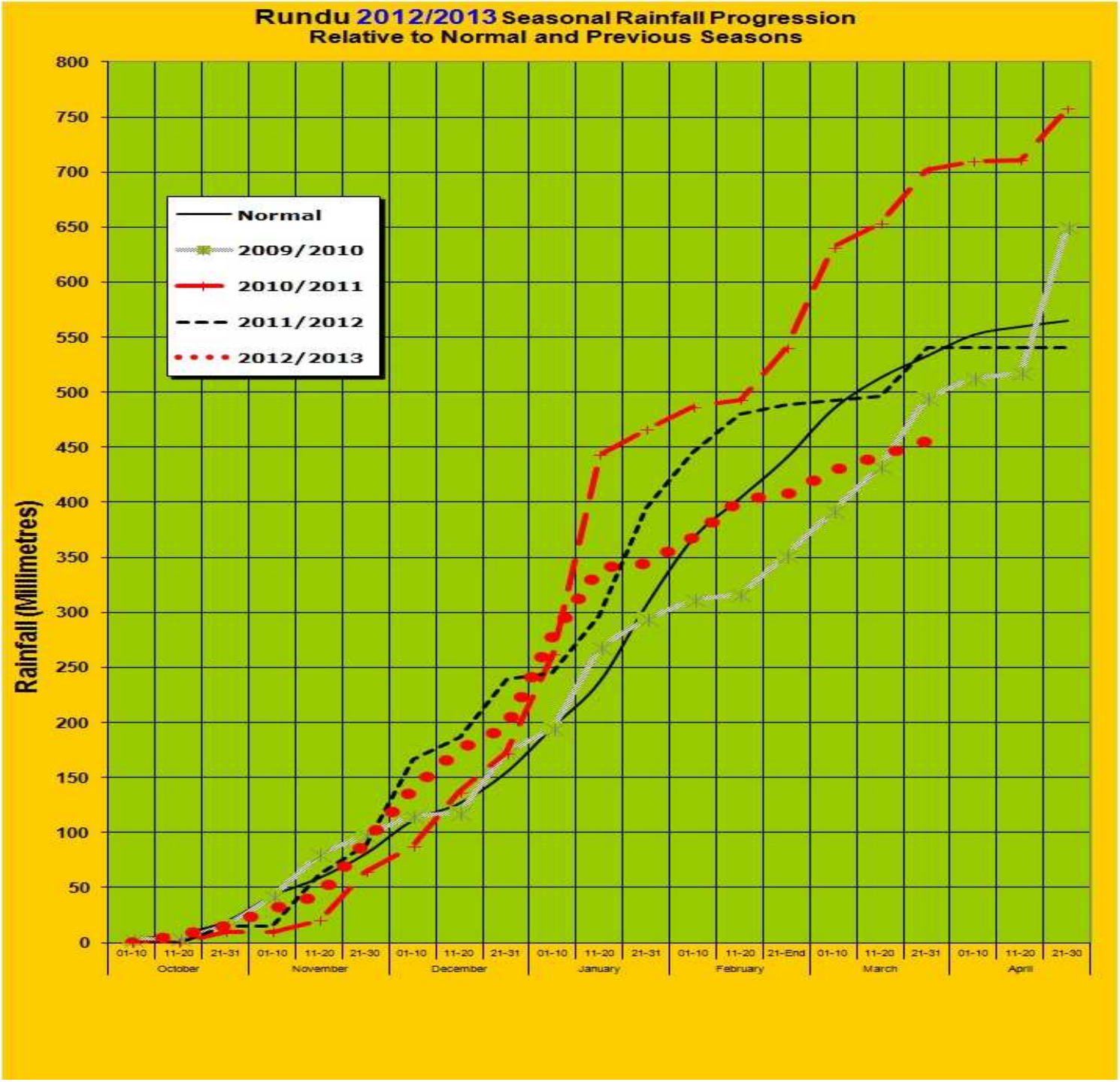
# Users of Climate Information … continued

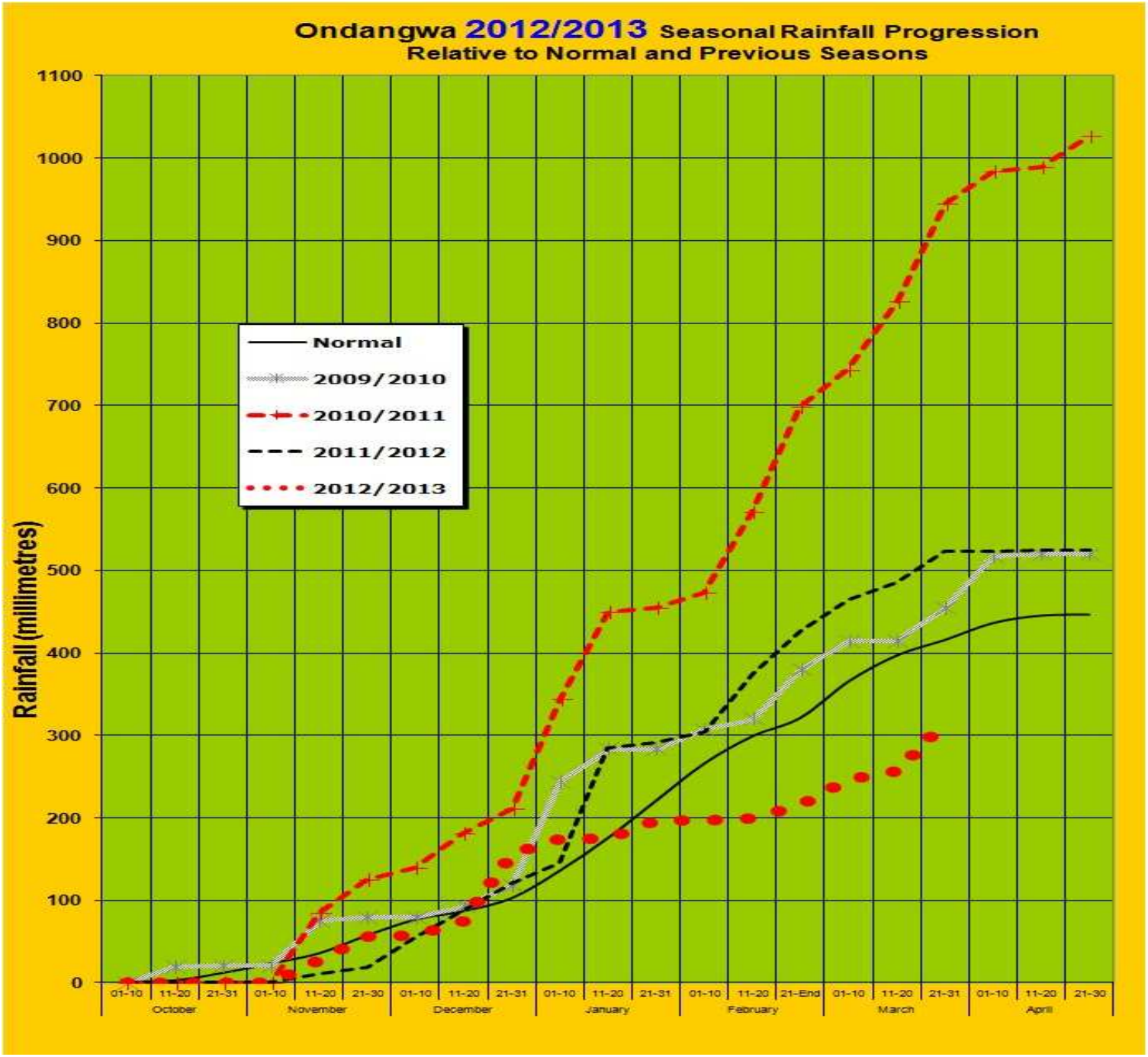
Analysis of requests for climate data and information documented recently shows that climate data and information is used in many socio-economic sectors for:

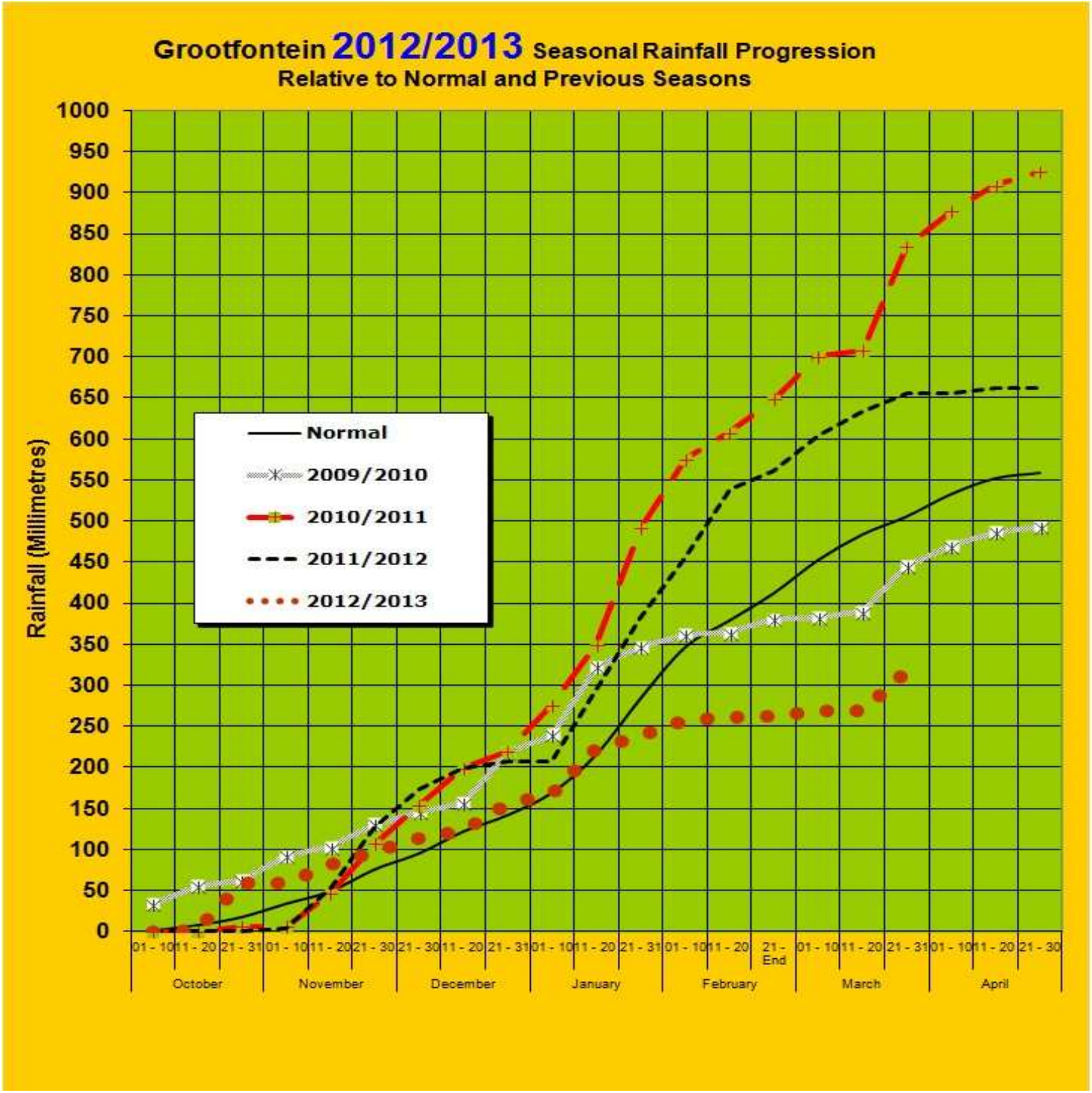
- Planning purposes, and
- Enterprise monitoring purposes

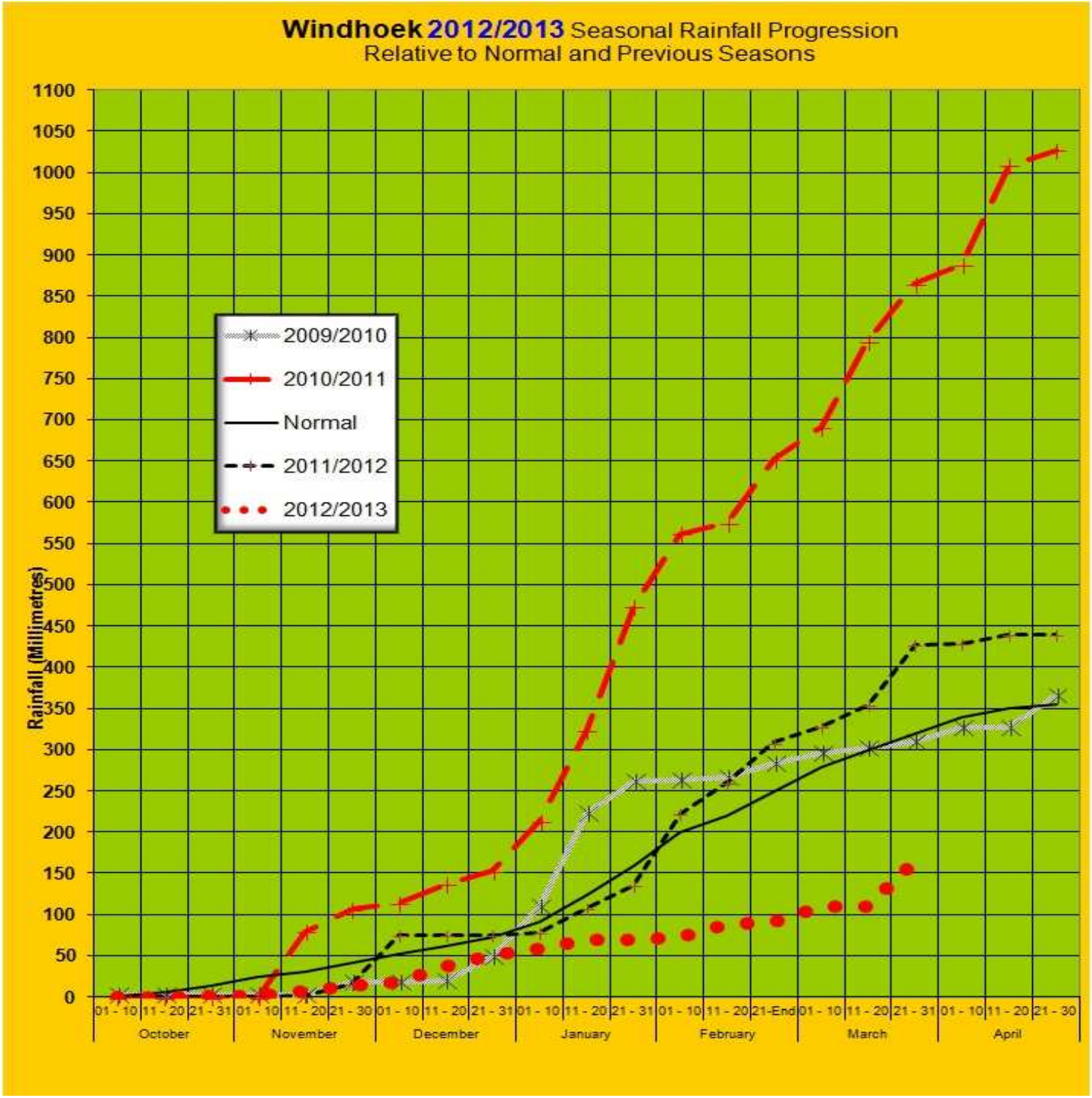
# Examples of Regular Climate System Monitoring Products
## -Seasonal Rainfall Progression Charts-




Rundu 2012/2013 Seasonal Rainfall Progression
Relative to Normal and Previous Seasons
Rainfall (Millimetres)
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
Normal
2009/2010
2010/2011
2011/2012
2012/2013
01-10
11-20
21-31
01-10
11-20
21-30
01-10
11-20
21-31
01-10
11-20
21-31
01-10
11-20
21-End
01-10
11-20
21-31
01-10
11-20
21-30
October
November
December
January
February
March
April


Ondangwa 2012/2013 Seasonal Rainfall Progression
Relative to Normal and Previous Seasons
Rainfall (millimetres)
1100
1000
900
800
700
600
500
400
300
200
100
0
Normal
2009/2010
2010/2011
2011/2012
2012/2013
01-10
11-20
21-31
01-10
11-20
21-30
01-10
11-20
21-31
01-10
11-20
21-31
01-10
11-20
21-End
01-10
11-20
21-31
01-10
11-20
21-30
October
November
December
January
February
March
April


Grootfontein 2012/2013 Seasonal Rainfall Progression
Relative to Normal and Previous Seasons
Rainfall (Millimetres)
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
Normal
2009/2010
2010/2011
2011/2012
2012/2013
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - 30
21 - 30
11 - 20
21 - 31
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - End
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - 30
October
November
December
January
February
March
April


Windhoek 2012/2013 Seasonal Rainfall Progression
Relative to Normal and Previous Seasons
Rainfall (Millimetres)
1100
1050
1000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
2009/2010
2010/2011
Normal
2011/2012
2012/2013
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - 30
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21-End
01 - 10
11 - 20
21 - 31
01 - 10
11 - 20
21 - 30
October
November
December
January
February
March
April

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THANK YOU

END