

# MALAWI CLIMATE CHANGE VULNERABILITY ASSESSMENT: ANNEX C. CLIMATE CHANGE PROJECTIONS

African and Latin American Resilience to Climate Change (ARCC)

SEPTEMBER 2013

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# INTRODUCTION

Please note that this annex is composed to two appendices to previous reports. Section 1.0 comprises “Appendix A: Historical Climate Summaries,” and Section 2.0 comprises “Appendix B: Future Projections.”

**Appendix A:**

**Historic Climate Summaries**

# Climate Summary Report for BOLERO



Figure A.1.1: Map showing location of BOLERO observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

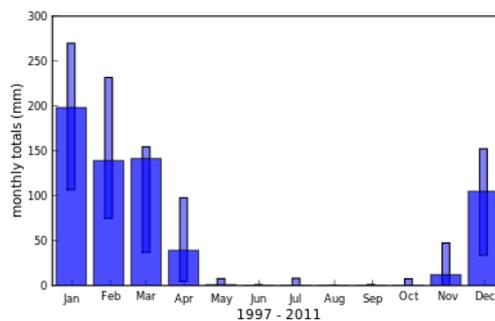


Figure A.1.2: Annual cycle of monthly rainfall (mm) for BOLERO station.

### Observed seasonal mean dry spell duration

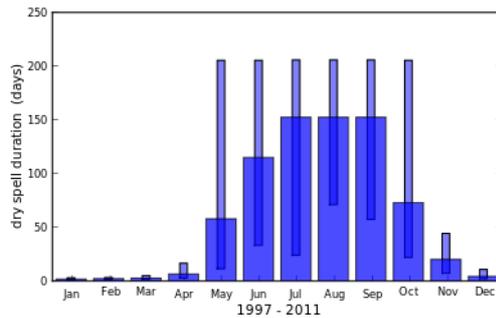


Figure A.1.3: Annual cycle of monthly mean dry spell duration for BOLERO station (> 0.3mm ).

### Observed seasonal mean dry spell duration

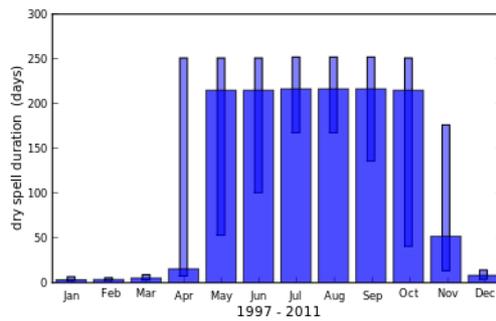


Figure A.1.4: Annual cycle of monthly mean dry spell duration for BOLERO station (> 5mm ).

### Observed monthly mean rain day frequency

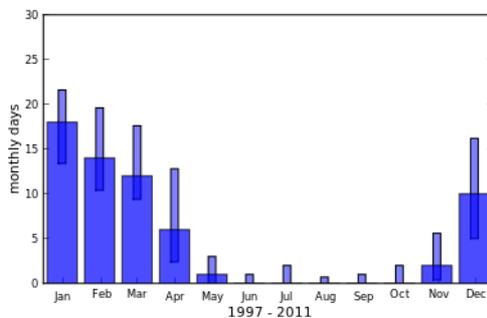


Figure A.1.5: Annual cycle of monthly rain days > 0.3 mm (days) for BOLERO station.

### Observed monthly mean rain day frequency

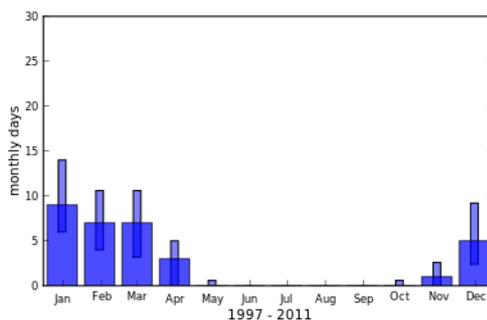


Figure A.1.6: Annual cycle of monthly rain days > 5 mm (days) for BOLERO station.

### Observed monthly mean rain day frequency

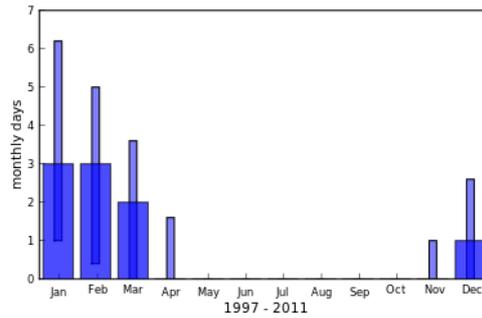


Figure A.1.7: Annual cycle of monthly rain days > 20 mm (days) for BOLERO station.

### Observed monthly mean extreme rain day frequency

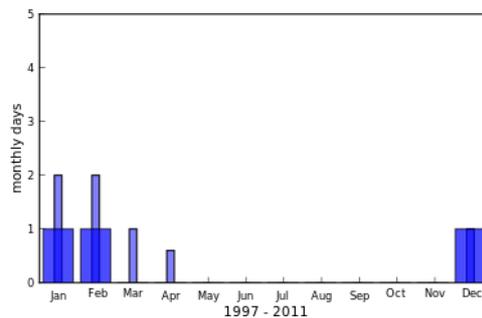


Figure A.1.8: Annual cycle of monthly rain days > 95th percentile (31.6 mm) (days) for BOLERO station.

### Observed seasonal daily maximum temperatures

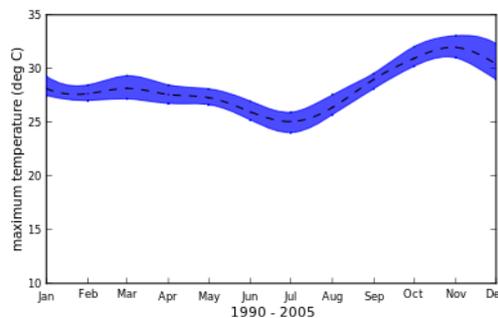


Figure A.1.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for BOLERO station.

### Observed seasonal days/month exceeding 36 deg C

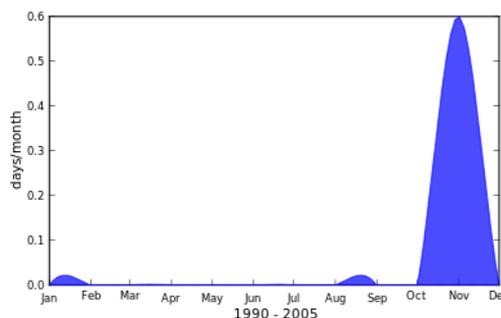


Figure A.1.10: Annual cycle days/month exceeding 36 deg C for BOLERO station.

### Observed seasonal days/month exceeding 95th percentile

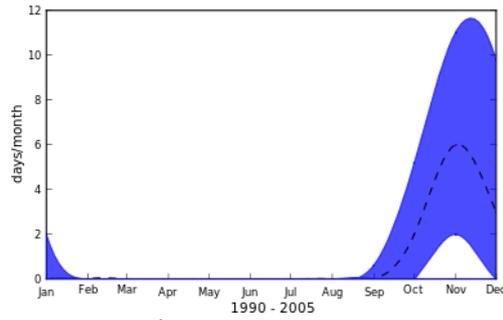


Figure A.1.11: Annual cycle days/month exceeding 33.5 deg C for BOLERO station.

### Observed seasonal heat spell length

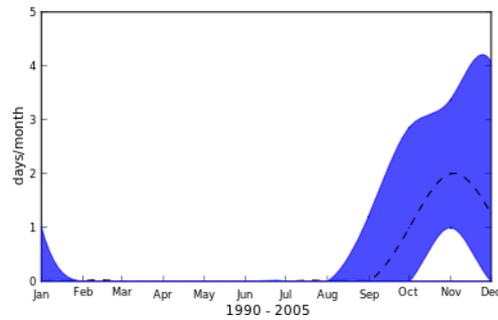


Figure A.1.12: Annual cycle of monthly mean heat spell duration (33.5 deg C) for BOLERO station.

### Observed seasonal daily minimum temperatures

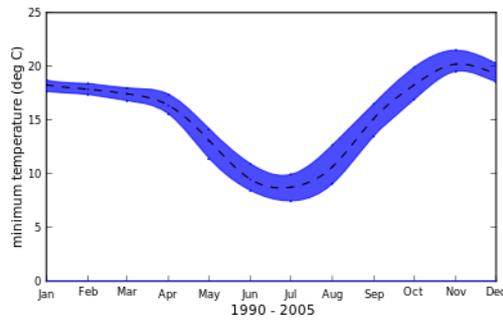


Figure A.1.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for BOLERO station.

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# Climate Summary Report for BVUMBWE

## BVUMBWE



Figure A.2.1: Map showing location of BVUMBWE observation station

## Observed climate

### Observed seasonal rainfall

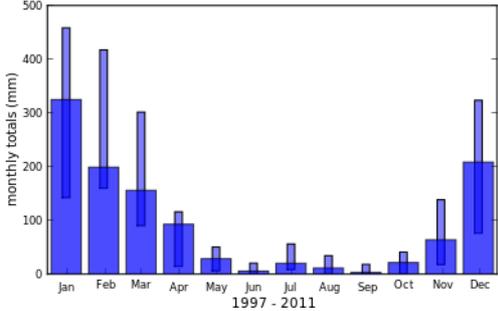


Figure A.2.2: Annual cycle of monthly rainfall (mm) for BVUMBWE station

### Observed seasonal mean dry spell duration

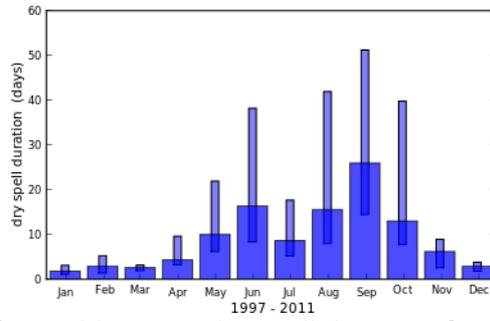


Figure A.2.3: Annual cycle of monthly mean dry spell duration for BVUMBWE station (> 0.3mm ).

**Observed seasonal mean dry spell duration**

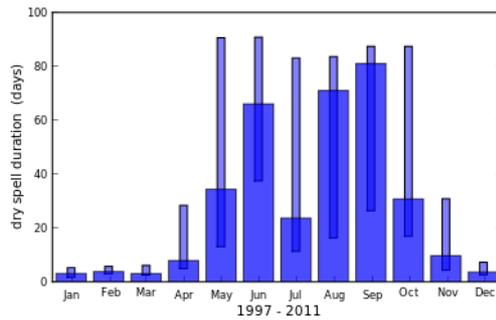


Figure A.2.4: Annual cycle of monthly mean dry spell duration for BVUMBWE station (> 5mm ).

**Observed monthly mean rain day frequency**

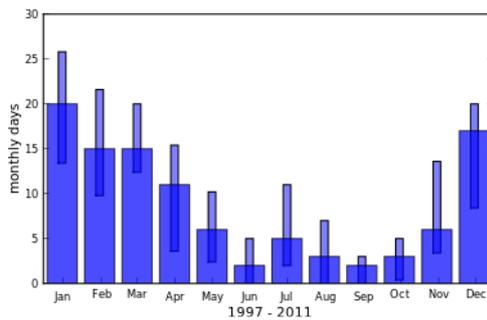


Figure A.2.5: Annual cycle of monthly rain days > 0.3 mm (days) for BVUMBWE station.

**Observed monthly mean rain day frequency**

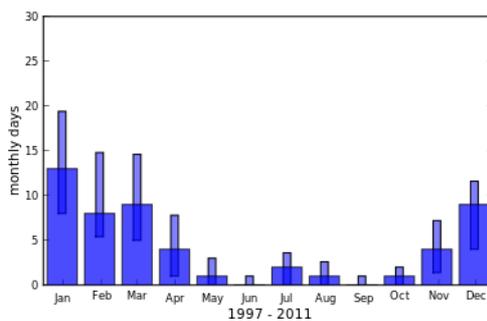


Figure A.2.6: Annual cycle of monthly rain days > 5 mm (days) for BVUMBWE station.

**Observed monthly mean rain day frequency**

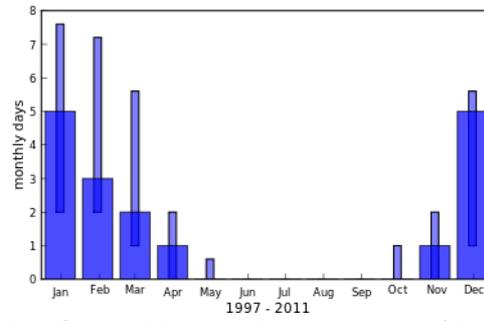


Figure A.2.7: Annual cycle of monthly rain days > 20 mm (days) for BVUMBWE station.

**Observed monthly mean extreme rain day frequency**

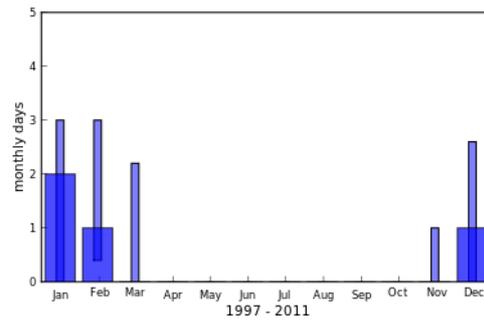


Figure A.2.8: Annual cycle of monthly rain days > 95th percentile (45 mm) (days) for BVUMBWE station.

**Observed seasonal daily maximum temperatures**

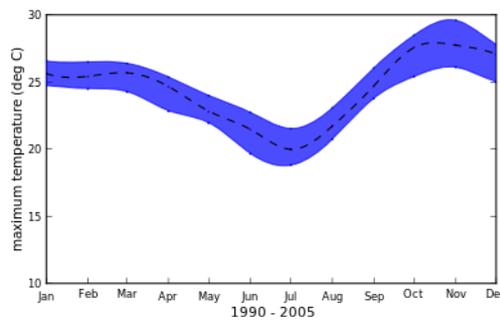


Figure A.2.9: Annual cycle of monthly mean maximum daily temperatures (degC) for BVUMBWE station.

**Observed seasonal days/month exceeding 36 degC**

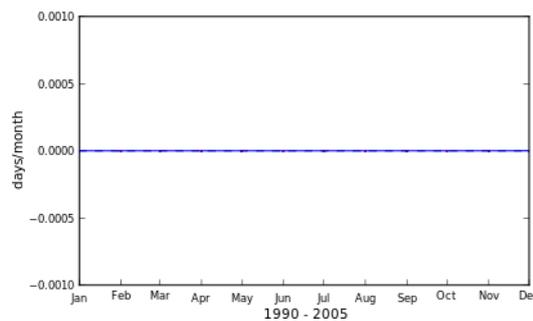


Figure A.2.10: Annual cycle days/month exceeding 36 deg C for BVUMBWE station.

**Observed seasonal days/month exceeding 95th percentile**

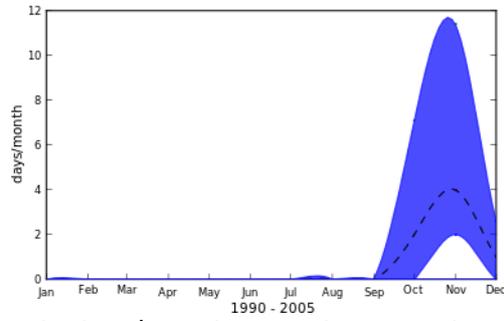


Figure A.2.11: Annual cycle days/month exceeding 31.2 deg C for BVUMBWE station.

### Observed seasonal heat spell length

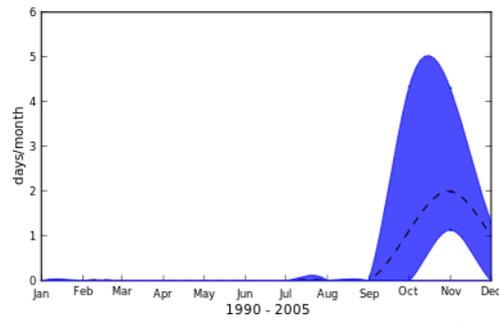


Figure A.2.12: Annual cycle of monthly mean heat spell duration (31.2 deg C) for BVUMBWE station.

### Observed seasonal daily minimum temperatures

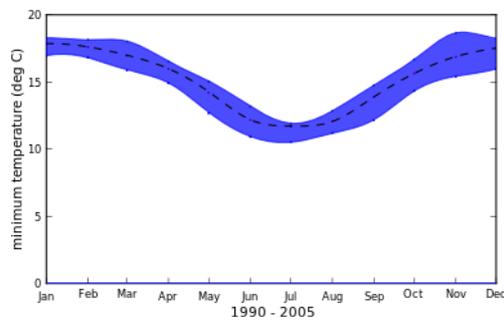


Figure A.2.13: Annual cycle of monthly mean minimum daily temperatures (degC) for BVUMBWE station.

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# Climate Summary Report for CHICHIRI

## CHICHIRI



Figure A.3.1: Map showing location of CHICHIRI observation station

## Observed climate

### Observed seasonal rainfall

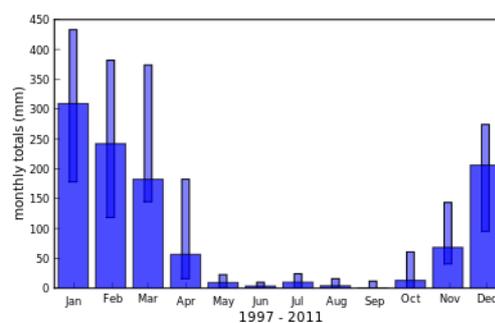


Figure A.3.2: Annual cycle of monthly rainfall (mm) for CHICHIRI station.

### Observed seasonal mean dry spell duration

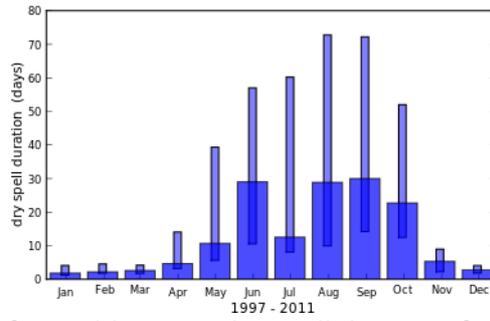


Figure A.3.3: Annual cycle of monthly mean dry spell duration for CHICHIRI station (> 0.3mm ).

**Observed seasonal mean dry spell duration**

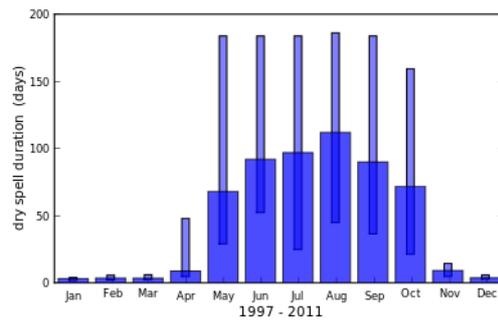


Figure A.3.4: Annual cycle of monthly mean dry spell duration for CHICHIRI station (> 5mm ).

**Observed monthly mean rain day frequency**

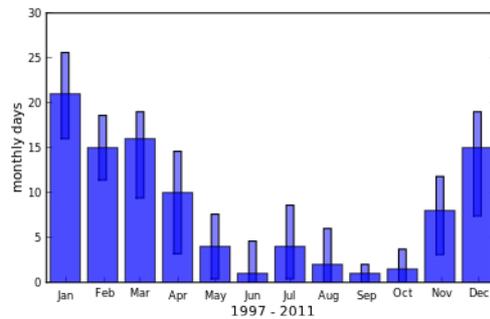


Figure A.3.5: Annual cycle of monthly rain days > 0.3 mm (days) for CHICHIRI station.

**Observed monthly mean rain day frequency**

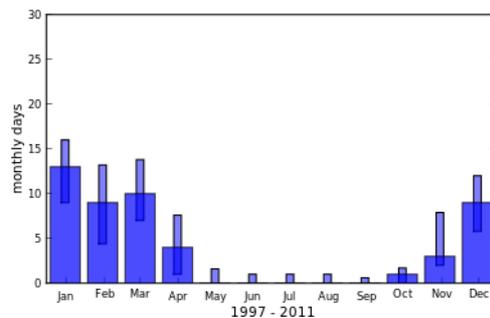


Figure A.3.6: Annual cycle of monthly rain days > 5 mm (days) for CHICHIRI station.

**Observed monthly mean rain day frequency**

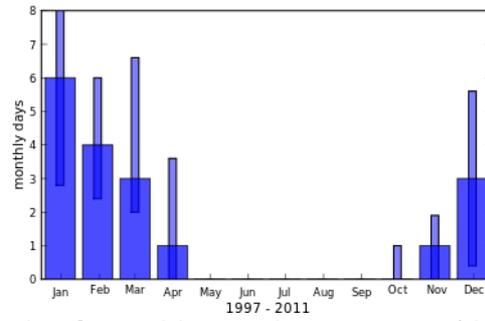


Figure A.3.7: Annual cycle of monthly rain days > 20 mm (days) for CHICHIRI station.

**Observed monthly mean extreme rain day frequency**

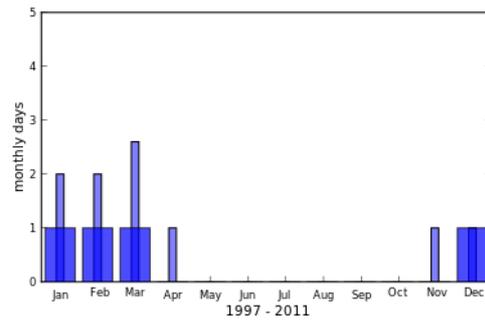


Figure A.3.8: Annual cycle of monthly rain days > 95th percentile (46 mm) (days) for CHICHIRI station.

**Observed seasonal daily maximum temperatures**

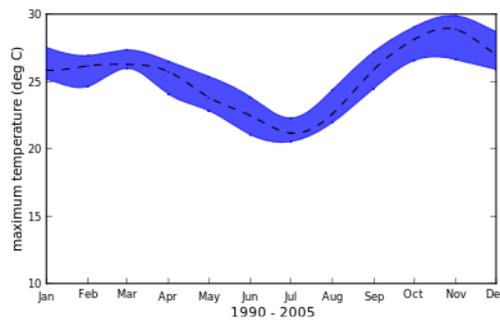


Figure A.3.9: Annual cycle of monthly mean maximum daily temperatures (degC) for CHICHIRI station.

**Observed seasonal days/month exceeding 36 degC**

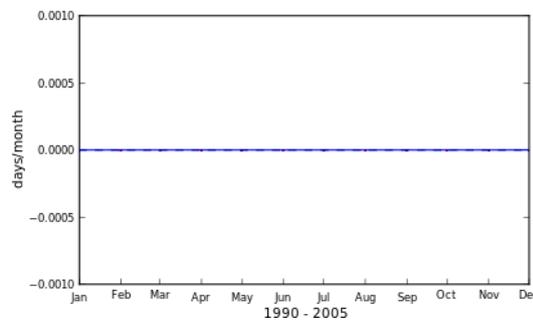


Figure A.3.10: Annual cycle days/month exceeding 36 deg C for CHICHIRI station.

**Observed seasonal days/month exceeding 95th percentile**

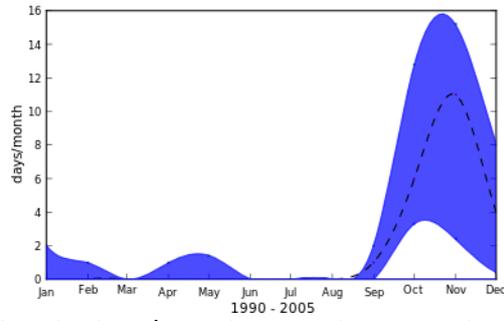


Figure A.3.11: Annual cycle days/month exceeding 30.5 deg C for CHICHIRI station.

### Observed seasonal heat spell length

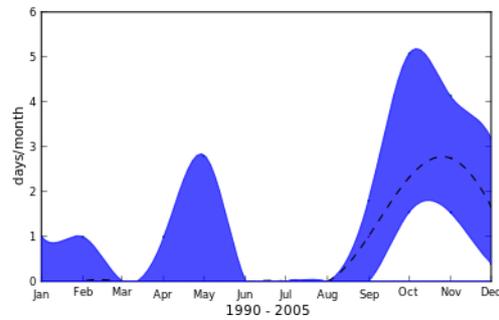


Figure A.3.12: Annual cycle of monthly mean heat spell duration (30.5 deg C) for CHICHIRI station.

### Observed seasonal daily minimum temperatures

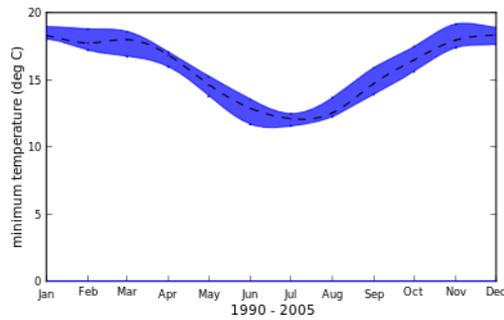


Figure A.3.13: Annual cycle of monthly mean minimum daily temperatures (degC) for CHICHIRI station.

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# Climate Summary Report for CHILEKA

## CHILEKA



Figure A.4.1: Map showing location of CHILEKA observation station

## Observed climate

### Observed seasonal rainfall

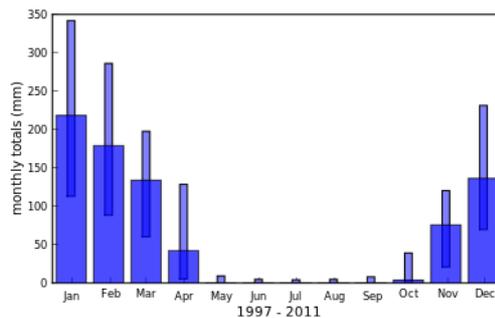


Figure A.4.2: Annual cycle of monthly rainfall (mm) for CHILEKA station.

### Observed seasonal mean dry spell duration

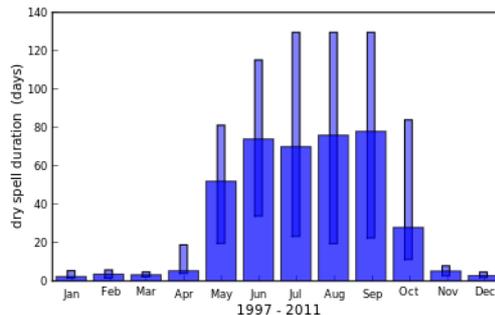


Figure A.4.3: Annual cycle of monthly mean dry spell duration for CHILEKA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

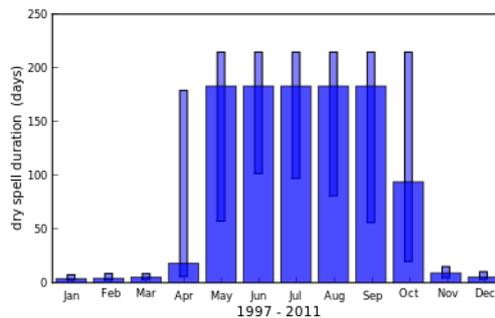


Figure A.4.4: Annual cycle of monthly mean dry spell duration for CHILEKA station (> 5mm ).

### Observed monthly mean rain day frequency

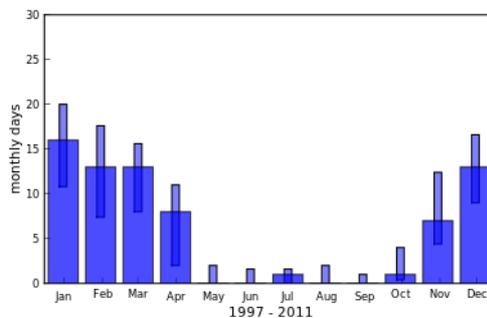


Figure A.4.5: Annual cycle of monthly rain days > 0.3 mm (days) for CHILEKA station.

### Observed monthly mean rain day frequency

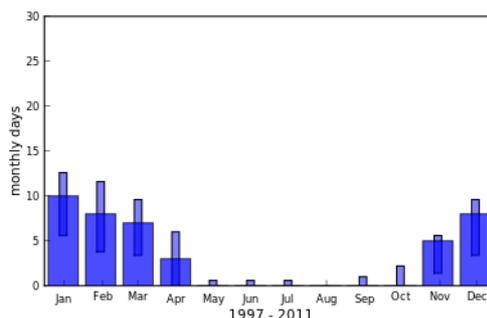


Figure A.4.6: Annual cycle of monthly rain days > 5 mm (days) for CHILEKA station.

### Observed monthly mean rain day frequency

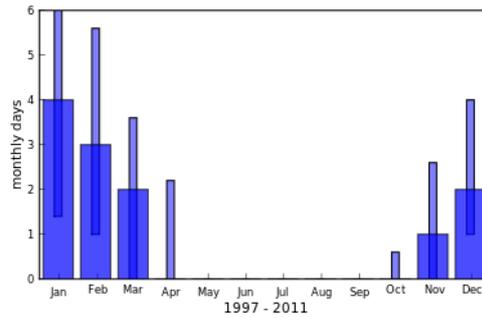


Figure A.4.7: Annual cycle of monthly rain days > 20 mm (days) for CHILEKA station.

### Observed monthly mean extreme rain day frequency

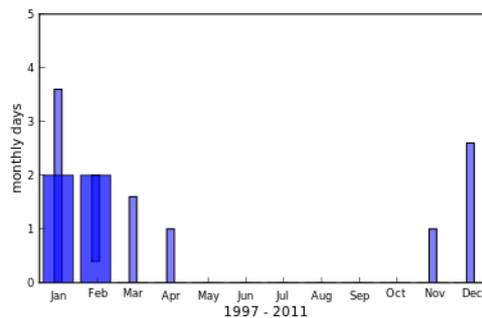


Figure A.4.8: Annual cycle of monthly rain days > 95th percentile (36.8 mm) (days) for CHILEKA station.

### Observed seasonal daily maximum temperatures

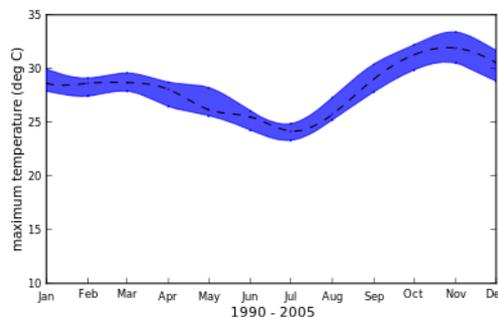


Figure A.4.9: Annual cycle of monthly mean maximum daily temperatures (degC) for CHILEKA station.

### Observed seasonal days/month exceeding 36 degC

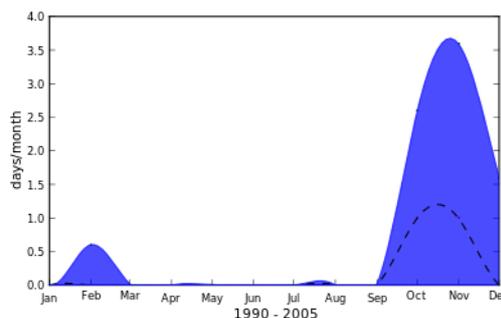


Figure A.4.10: Annual cycle days/month exceeding 36 deg C for CHILEKA station.

### Observed seasonal days/month exceeding 95th percentile

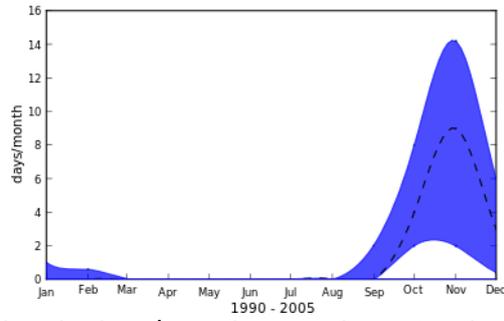


Figure A.4.11: Annual cycle days/month exceeding 34.2 deg C for CHILEKA station.

### Observed seasonal heat spell length

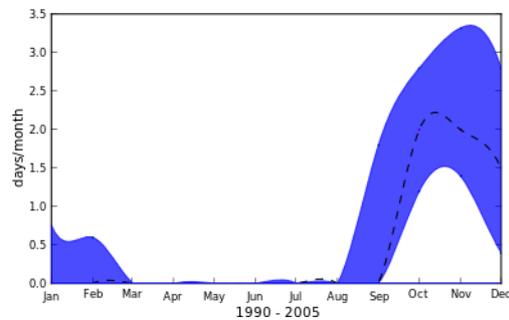


Figure A.4.12: Annual cycle of monthly mean heat spell duration (34.2 deg C) for CHILEKA station.

### Observed seasonal daily minimum temperatures

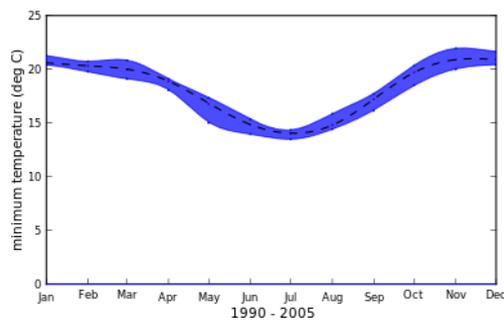


Figure A.4.13: Annual cycle of monthly mean minimum daily temperatures (degC) for CHILEKA station.

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# Climate Summary Report for CHITEDZE

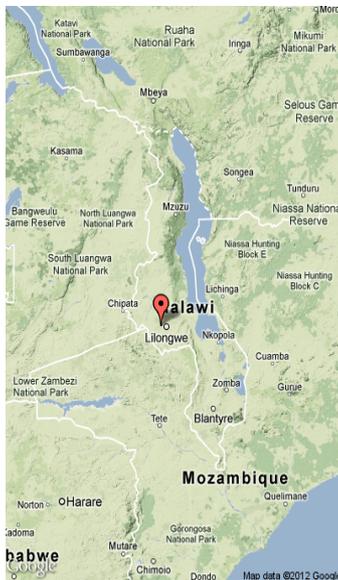


Figure A.5.1: Map showing location of CHITEDZE observation station

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## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

## Observed seasonal rainfall

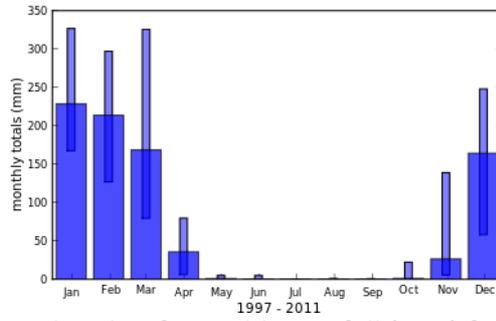


Figure A.5.2: Annual cycle of monthly rainfall (mm) for CHITEDZE station.

**Observed seasonal mean dry spell duration**

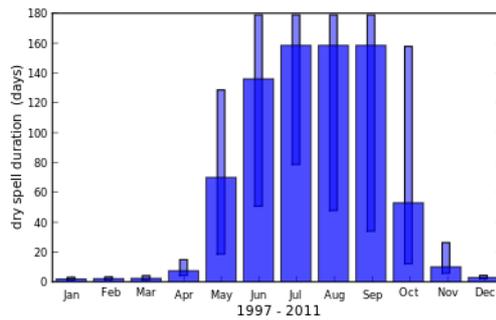


Figure A.5.3: Annual cycle of monthly mean dry spell duration for CHITEDZE station (> 0.3mm).

**Observed seasonal mean dry spell duration**

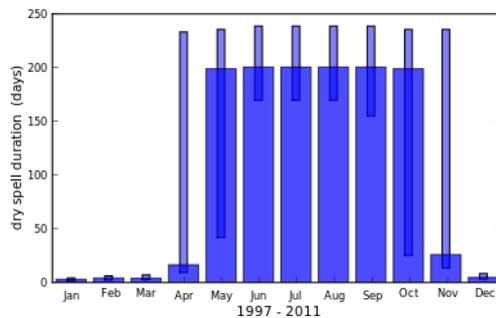


Figure A.5.4: Annual cycle of monthly mean dry spell duration for CHITEDZE station (> 5mm).

**Observed monthly mean rain day frequency**

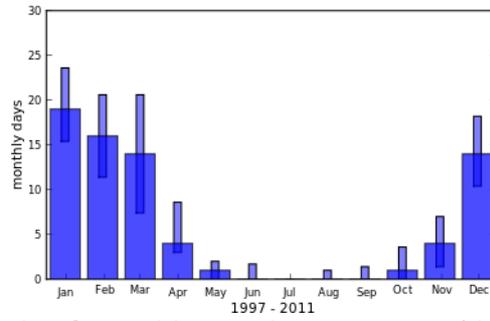


Figure A.5.5: Annual cycle of monthly rain days > 0.3 mm (days) for CHITEDZE station.

**Observed monthly mean rain day frequency**

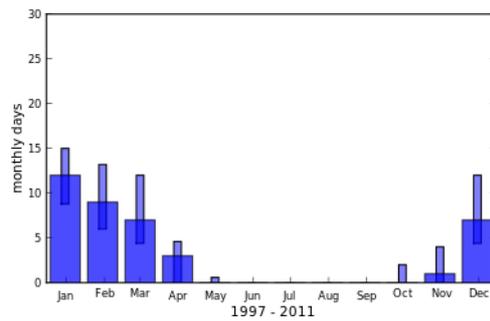


Figure A.5.6: Annual cycle of monthly rain days > 5 mm (days) for CHITEDZE station.

**Observed monthly mean rain day frequency**

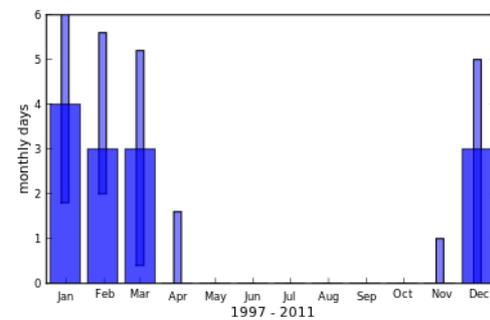


Figure A.5.7: Annual cycle of monthly rain days > 20 mm (days) for CHITEDZE station.

**Observed monthly mean extreme rain day frequency**

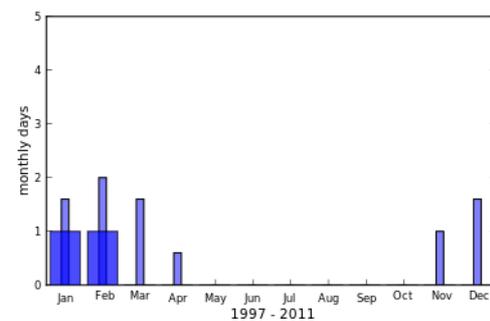


Figure A.5.8: Annual cycle of monthly rain days > 95th percentile (45.5 mm) (days) for CHITEDZE station.

### Observed seasonal daily maximum temperatures

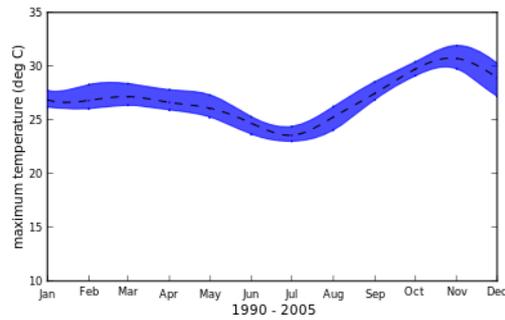


Figure A.5.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for CHITEDZE station.

### Observed seasonal days/month exceeding 36 deg C

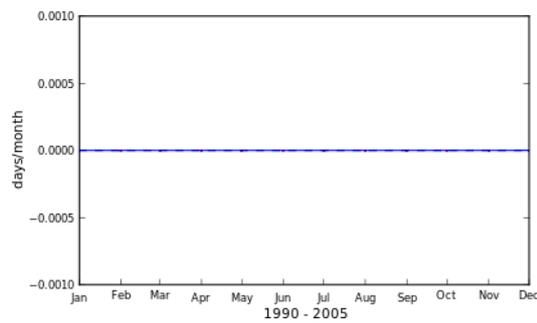


Figure A.5.10: Annual cycle days/month exceeding 36 deg C for CHITEDZE station.

### Observed seasonal days/month exceeding 95th percentile

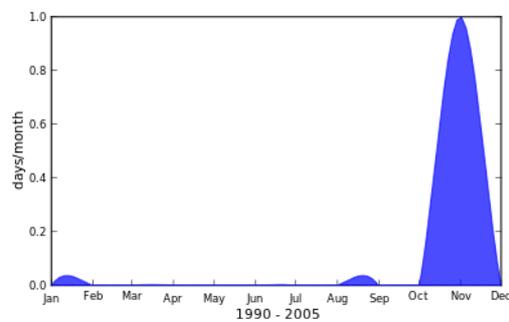


Figure A.5.11: Annual cycle days/month exceeding 34.3 deg C for CHITEDZE station.

### Observed seasonal heat spell length

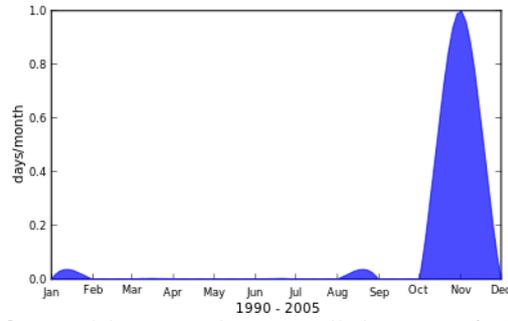


Figure A.5.12: Annual cycle of monthly mean heat spell duration (34.3 deg C) for CHITEDZE station.

### Observed seasonal daily minimum temperatures

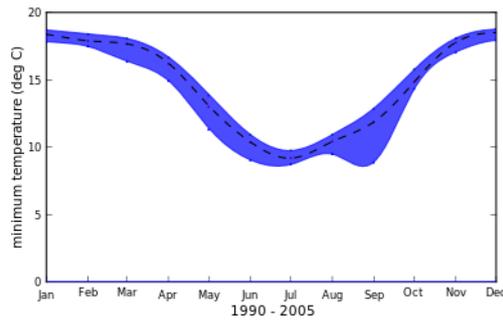


Figure A.5.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for CHITEDZE station.

## Climate Summary Report for CHITIPA



Figure A.6.1: Map showing location of CHITIPA observation station

### Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

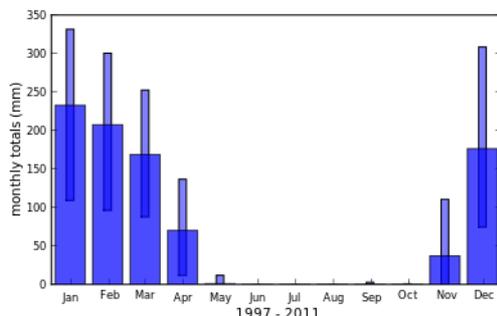


Figure A.6.2: Annual cycle of monthly rainfall (mm) for CHITIPA station.

### Observed seasonal mean dry spell duration

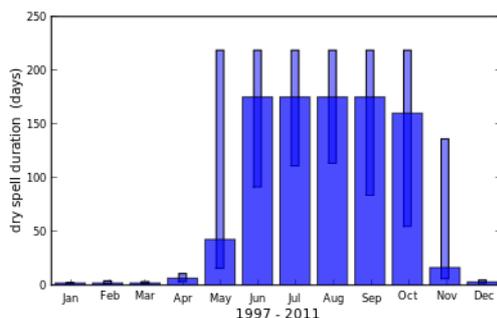


Figure A.6.3: Annual cycle of monthly mean dry spell duration for CHITIPA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

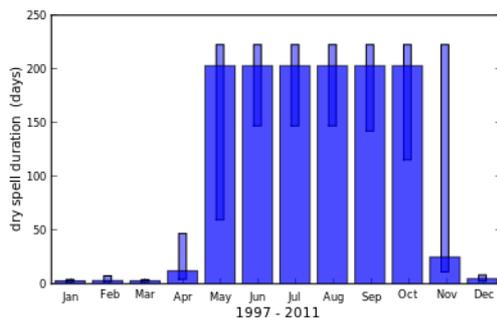


Figure A.6.4: Annual cycle of monthly mean dry spell duration for CHITIPA station (> 5mm ).

### Observed monthly mean rain day frequency

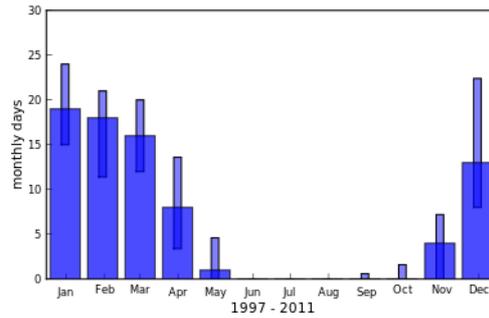


Figure A.6.5: Annual cycle of monthly rain days > 0.3 mm (days) for CHITIPA station.

### Observed monthly mean rain day frequency

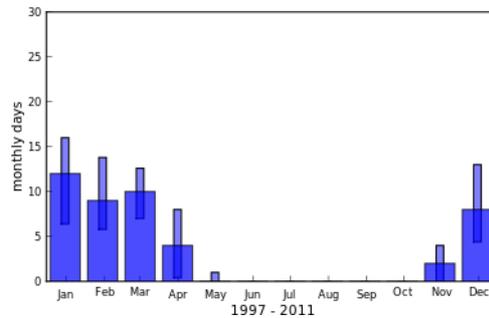


Figure A.6.6: Annual cycle of monthly rain days > 5 mm (days) for CHITIPA station.

### Observed monthly mean rain day frequency

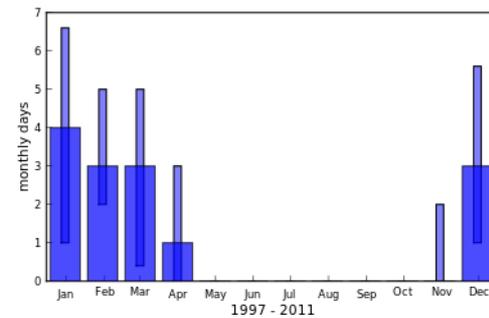


Figure A.6.7: Annual cycle of monthly rain days > 20 mm (days) for CHITIPA station.

### Observed monthly mean extreme rain day frequency

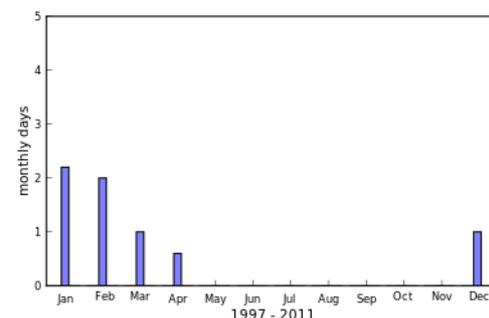


Figure A.6.8: Annual cycle of monthly rain days > 95th percentile (43.4 mm) (days) for CHITIPA station.

### Observed seasonal daily maximum temperatures

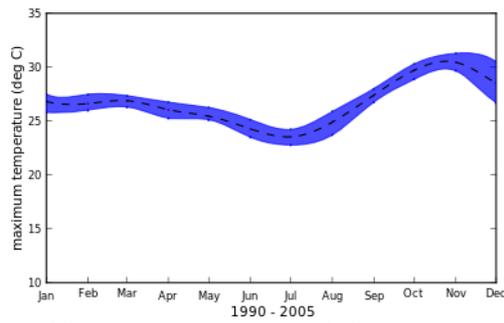


Figure A.6.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for CHITIPA station.

### Observed seasonal days/month exceeding 36 deg C

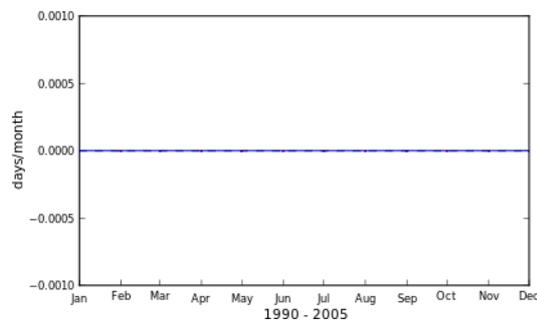


Figure A.6.10: Annual cycle days/month exceeding 36 deg C for CHITIPA station.

### Observed seasonal days/month exceeding 95th percentile

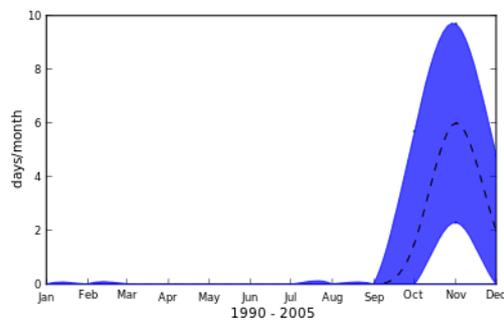


Figure A.6.11: Annual cycle days/month exceeding 31.9 deg C for CHITIPA station.

### Observed seasonal heat spell length

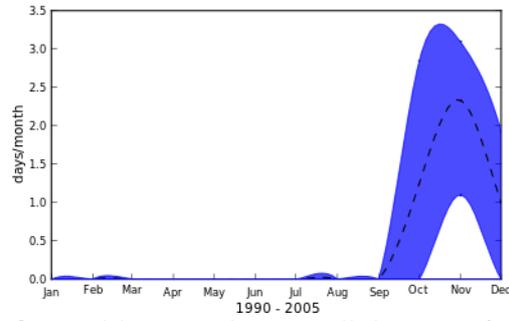


Figure A.6.12: Annual cycle of monthly mean heat spell duration (31.9 deg C) for CHITIPA station.

### Observed seasonal daily minimum temperatures

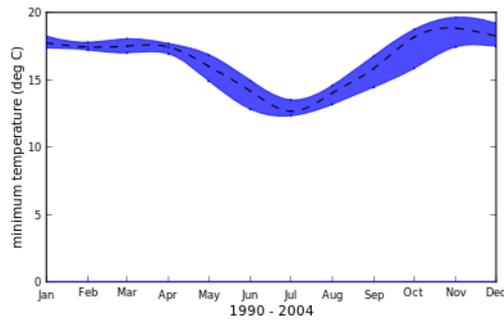


Figure A.6.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for CHITIPA station.

# Climate Summary Report for DEDZA

DEDZA



Figure A.7.1: Map showing location of DEDZA observation station

## Observed climate

### Observed seasonal rainfall

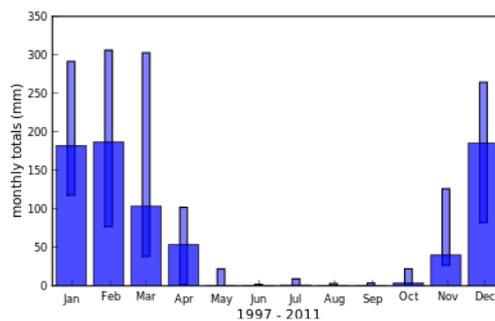


Figure A.7.2: Annual cycle of monthly rainfall (mm) for DEDZA station.

### Observed seasonal mean dry spell duration

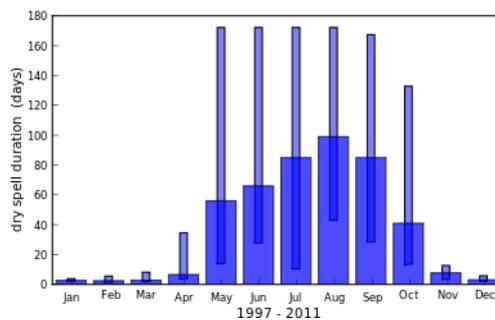


Figure A.7.3: Annual cycle of monthly mean dry spell duration for DEDZA station ( $> 0.3\text{mm}$ ).

### Observed seasonal mean dry spell duration

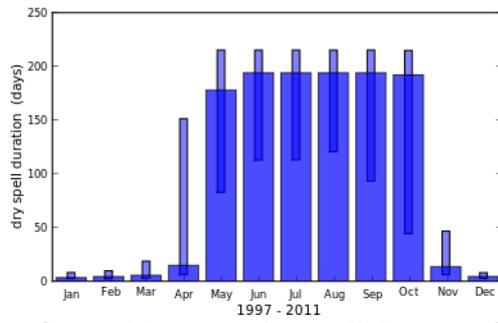


Figure A.7.4: Annual cycle of monthly mean dry spell duration for DEDZA station (> 5mm ).

### Observed monthly mean rain day frequency

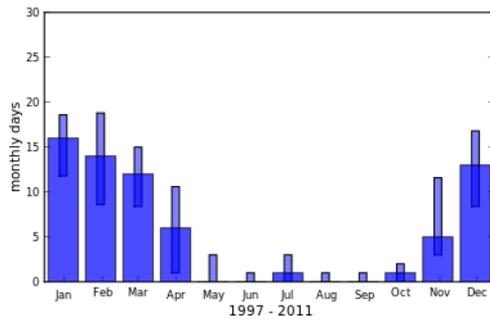


Figure A.7.5: Annual cycle of monthly rain days > 0.3 mm (days) for DEDZA station.

### Observed monthly mean rain day frequency

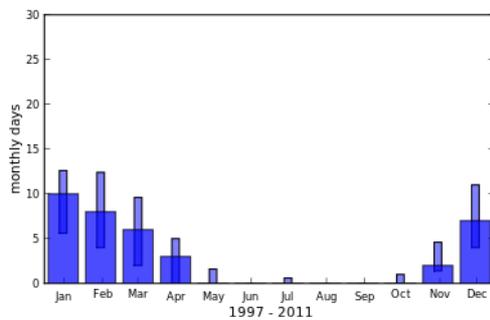


Figure A.7.6: Annual cycle of monthly rain days > 5 mm (days) for DEDZA station.

### Observed monthly mean rain day frequency

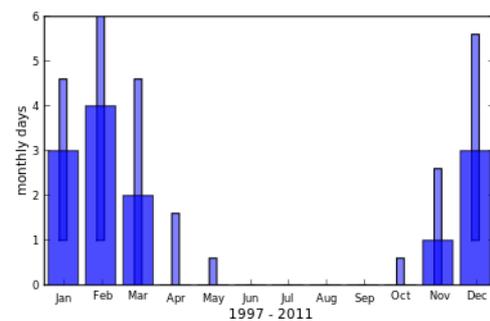


Figure A.7.7: Annual cycle of monthly rain days > 20 mm (days) for DEDZA station.

### Observed monthly mean extreme rain day frequency

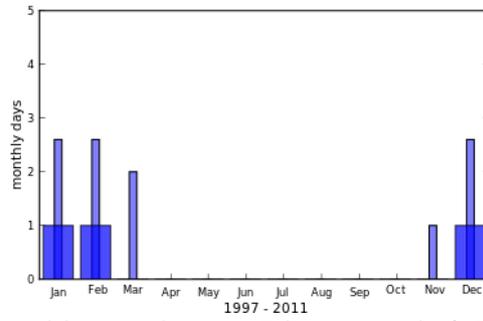


Figure A.7.8: Annual cycle of monthly rain days > 95th percentile (37.7 mm) (days) for DEDZA station.

**Observed seasonal daily maximum temperatures**

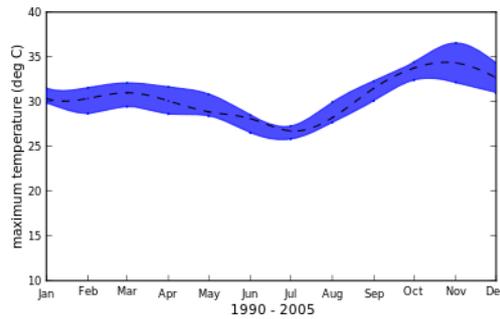


Figure A.7.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for DEDZA station.

**Observed seasonal days/month exceeding 36 deg C**

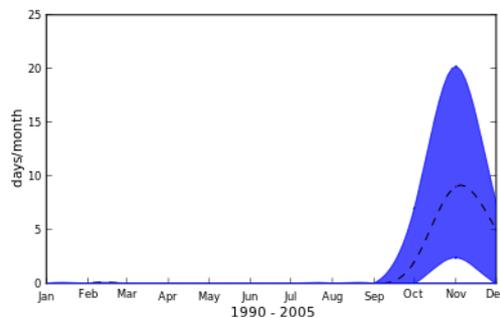


Figure A.7.10: Annual cycle days/month exceeding 36 deg C for DEDZA station.

**Observed seasonal days/month exceeding 95th percentile**

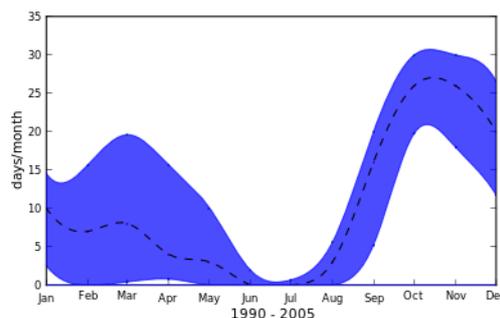


Figure A.7.11: Annual cycle days/month exceeding 31.6 deg C for DEDZA station.

### Observed seasonal heat spell length

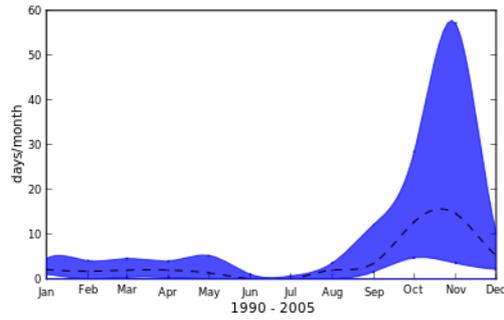


Figure A.7.12: Annual cycle of monthly mean heat spell duration (31.6 deg C) for DEDZA station.

### Observed seasonal daily minimum temperatures

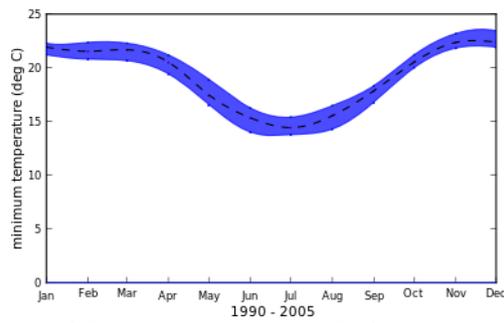


Figure A.7.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for DEDZA station.

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# Climate Summary Report for KARONGA



Figure A.8.1: Map showing location of KARONGA observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

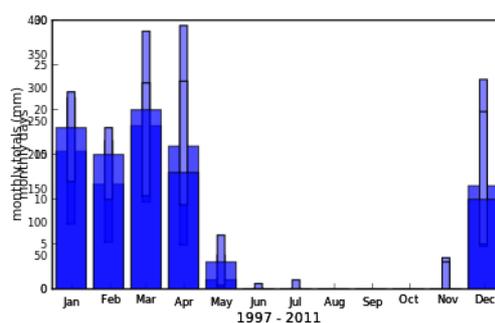


Figure A.8.2: Annual cycle of monthly rainfall (mm) for KARONGA station.

### Observed seasonal mean dry spell duration

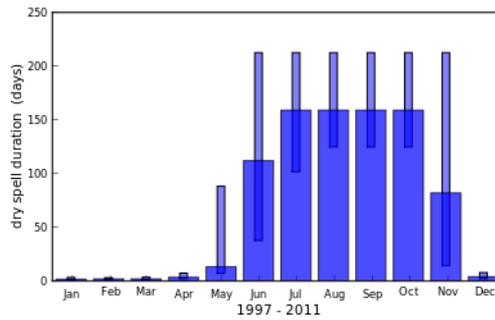


Figure A.8.3: Annual cycle of monthly mean dry spell duration for KARONGA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

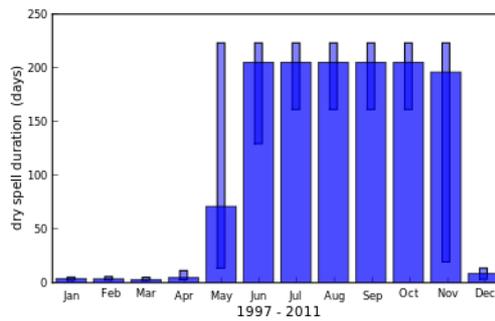


Figure A.8.4: Annual cycle of monthly mean dry spell duration for KARONGA station (> 5mm ).

### Observed monthly mean rain day frequency

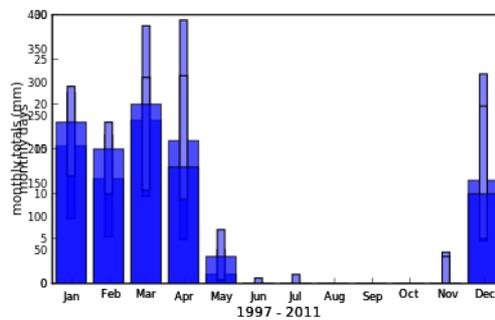


Figure A.8.5: Annual cycle of monthly rain days > 0.3 mm (days) for KARONGA station.

### Observed monthly mean rain day frequency

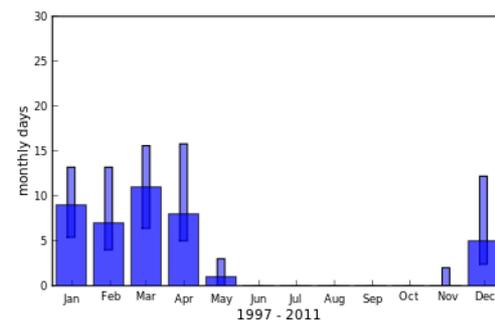


Figure A.8.6: Annual cycle of monthly rain days > 5 mm (days) for KARONGA station.

### Observed monthly mean rain day frequency

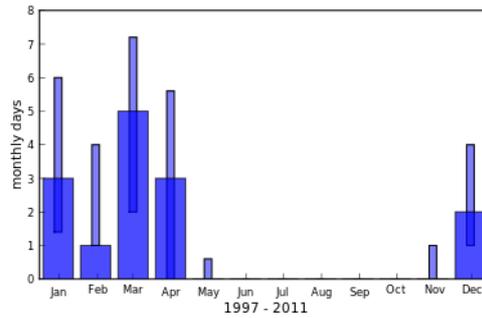


Figure A.8.7: Annual cycle of monthly rain days > 20 mm (days) for KARONGA station.

### Observed monthly mean extreme rain day frequency

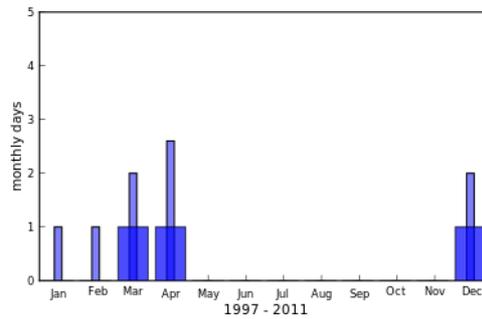


Figure A.8.8: Annual cycle of monthly rain days > 95th percentile (46 mm) (days) for KARONGA station.

### Observed seasonal daily maximum temperatures

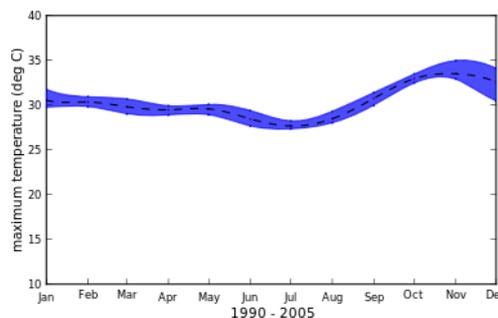


Figure A.8.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for KARONGA station.

### Observed seasonal days/month exceeding 36 deg C

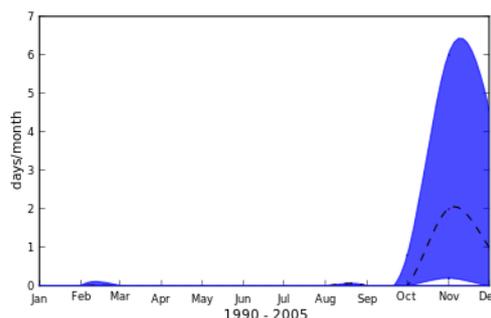


Figure A.8.10: Annual cycle days/month exceeding 36 deg C for KARONGA station.

### Observed seasonal days/month exceeding 95th percentile

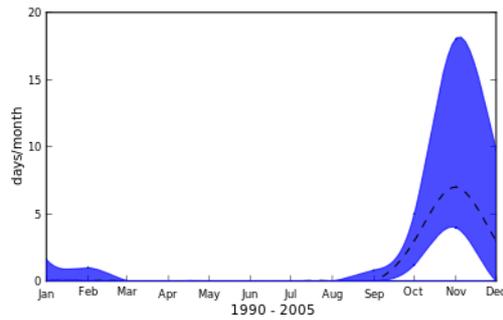


Figure A.8.11: Annual cycle days/month exceeding 34.8 deg C for KARONGA station.

### Observed seasonal heat spell length

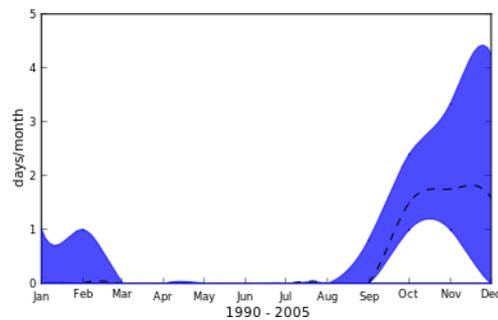


Figure A.8.12: Annual cycle of monthly mean heat spell duration (34.8 deg C) for KARONGA station.

### Observed seasonal daily minimum temperatures

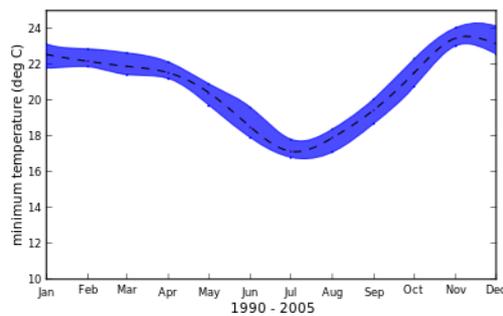


Figure A.8.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for KARONGA station.

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# Climate Summary Report for KASUNGU



Figure A.9.1: Map showing location of KASUNGU observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

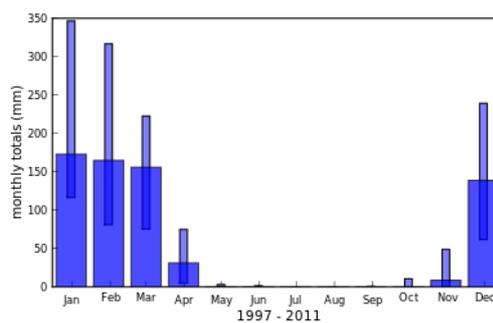


Figure A.9.2: Annual cycle of monthly rainfall (mm) for KASUNGU station.

### Observed seasonal mean dry spell duration

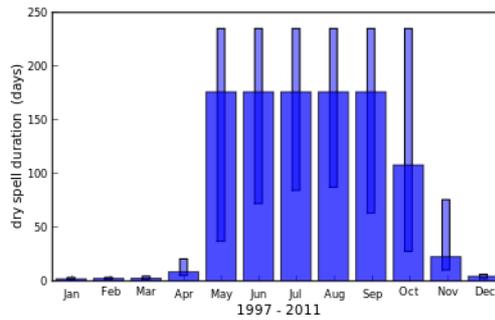


Figure A.9.3: Annual cycle of monthly mean dry spell duration for KASUNGU station (> 0.3mm ).

### Observed seasonal mean dry spell duration

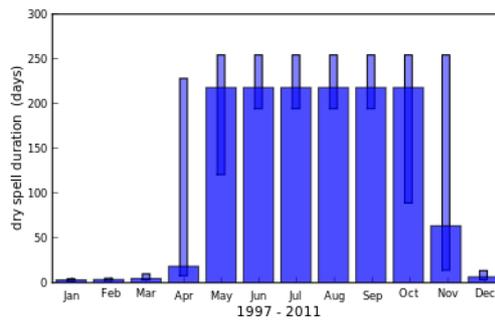


Figure A.9.4: Annual cycle of monthly mean dry spell duration for KASUNGU station (> 5mm ).

### Observed monthly mean rain day frequency

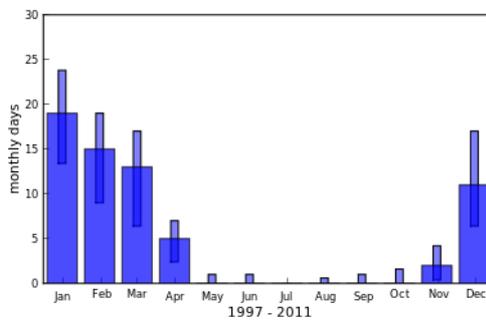


Figure A.9.5: Annual cycle of monthly rain days > 0.3 mm (days) for KASUNGU station.

### Observed monthly mean rain day frequency

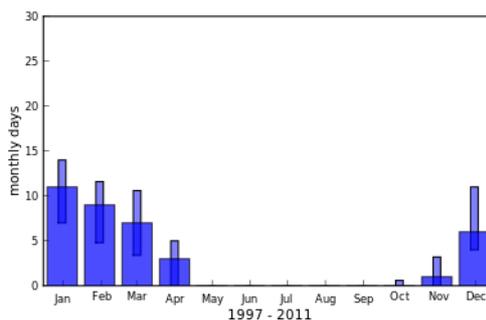


Figure A.9.6: Annual cycle of monthly rain days > 5 mm (days) for KASUNGU station.

### Observed monthly mean rain day frequency

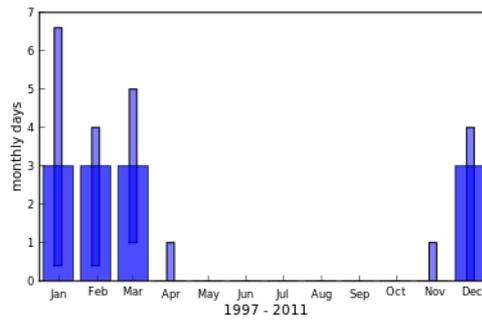


Figure A.9.7: Annual cycle of monthly rain days > 20 mm (days) for KASUNGU station.

### Observed monthly mean extreme rain day frequency

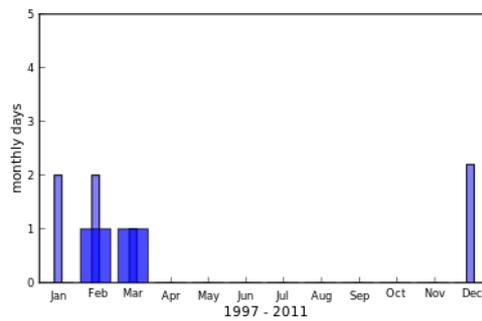


Figure A.9.8: Annual cycle of monthly rain days > 95th percentile (40 mm) (days) for KASUNGU station.

### Observed seasonal daily maximum temperatures

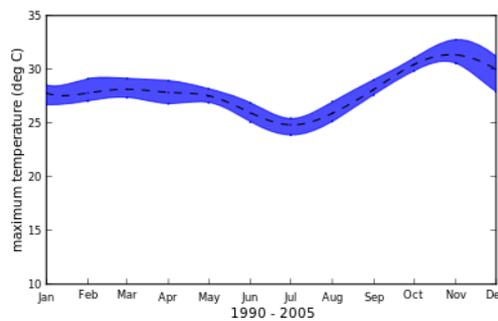


Figure A.9.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for KASUNGU station.

### Observed seasonal days/month exceeding 36 deg C

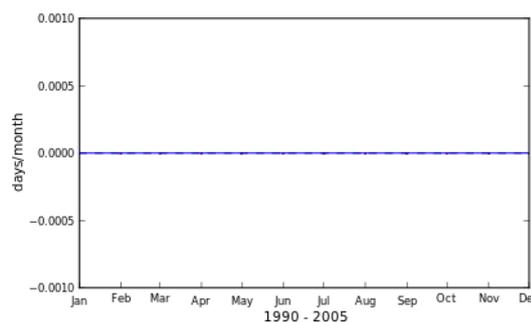


Figure A.9.10: Annual cycle days/month exceeding 36 deg C for KASUNGU station.

### Observed seasonal days/month exceeding 95th percentile

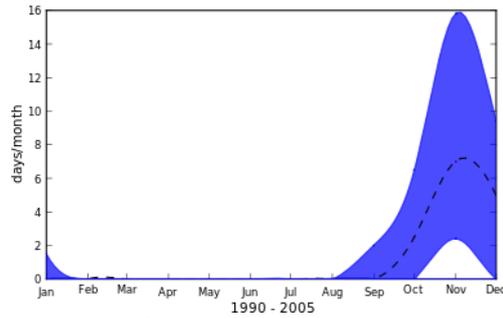


Figure A.9.11: Annual cycle days/month exceeding 32.6 deg C for KASUNGU station.

### Observed seasonal heat spell length

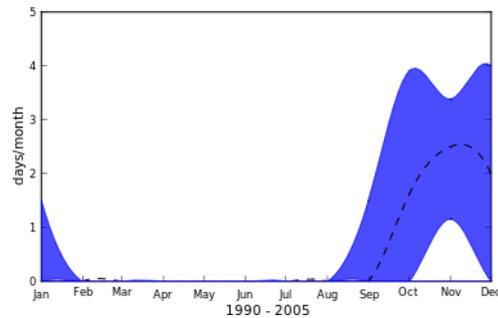


Figure A.9.12: Annual cycle of monthly mean heat spell duration (32.6 deg C) for KASUNGU station.

### Observed seasonal daily minimum temperatures

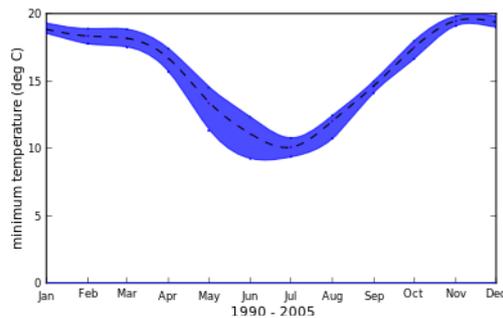


Figure A.9.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for KASUNGU station.

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# Climate Summary Report for KIA

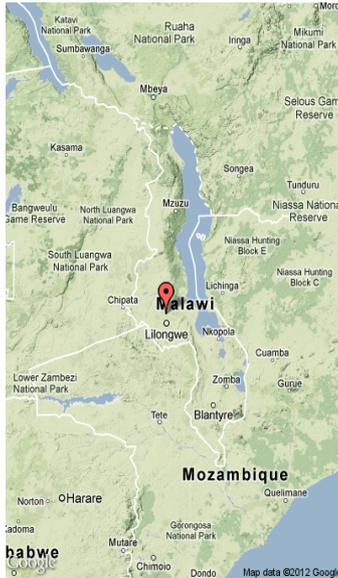


Figure A.10.1: Map showing location of KIA observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

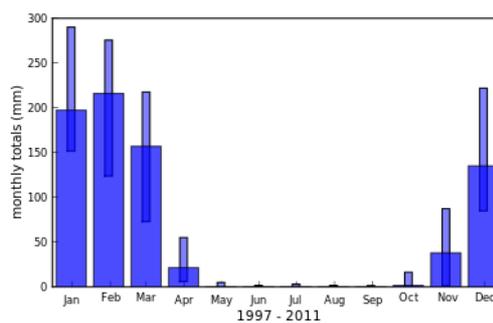


Figure A.10.2: Annual cycle of monthly rainfall (mm) for KIA station.

### Observed seasonal mean dry spell duration

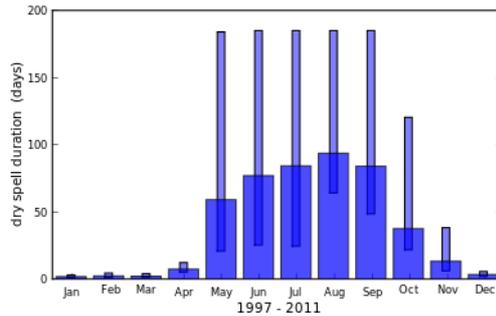


Figure A.10.3: Annual cycle of monthly mean dry spell duration for KIA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

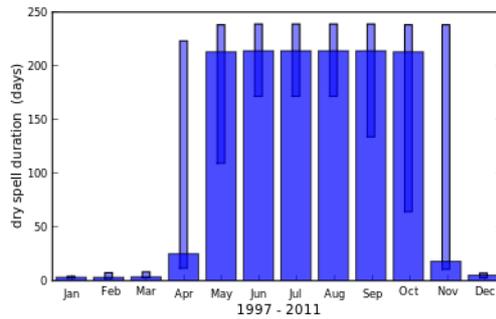


Figure A.10.4: Annual cycle of monthly mean dry spell duration for KIA station (> 5mm ).

### Observed monthly mean rain day frequency

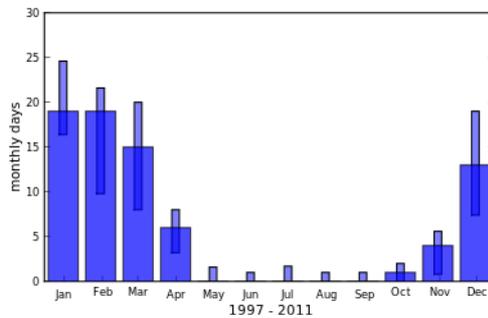


Figure A.10.5: Annual cycle of monthly rain days > 0.3 mm (days) for KIA station.

### Observed monthly mean rain day frequency

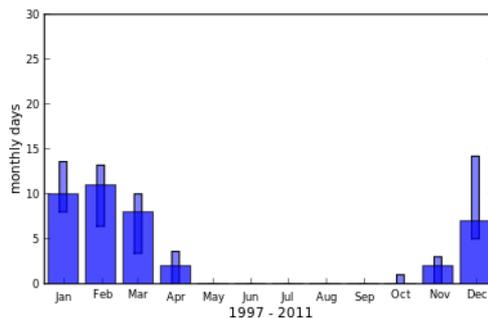


Figure A.10.6: Annual cycle of monthly rain days > 5 mm (days) for KIA station.

### Observed monthly mean rain day frequency

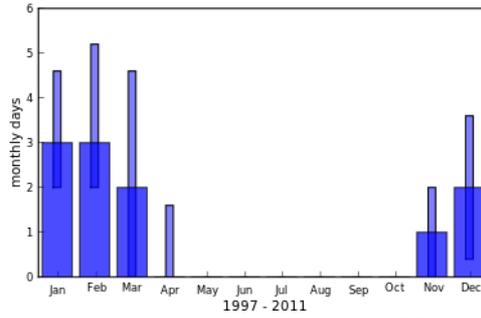


Figure A.10.7: Annual cycle of monthly rain days > 20 mm (days) for KIA station.

### Observed monthly mean extreme rain day frequency

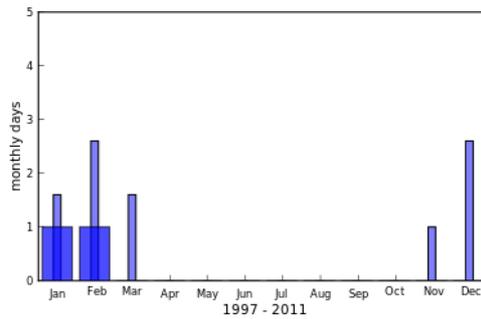


Figure A.10.8: Annual cycle of monthly rain days > 95th percentile (36.8 mm) (days) for KIA station.

### Observed seasonal daily maximum temperatures

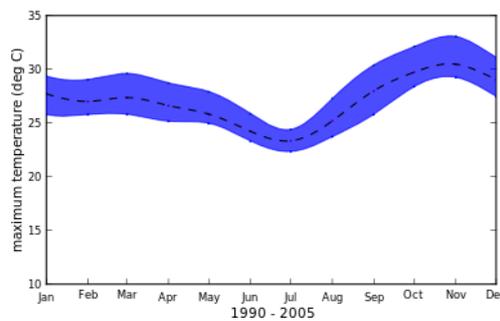


Figure A.10.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for KIA station.

### Observed seasonal days/month exceeding 36 deg C

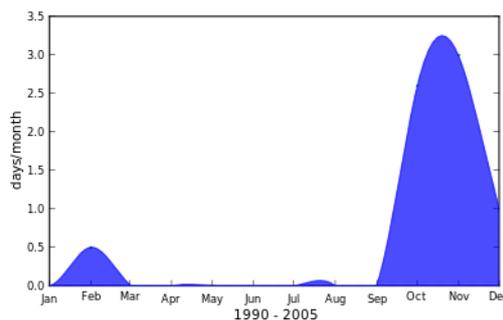


Figure A.10.10: Annual cycle days/month exceeding 36 deg C for KIA station.

### Observed seasonal days/month exceeding 95th percentile

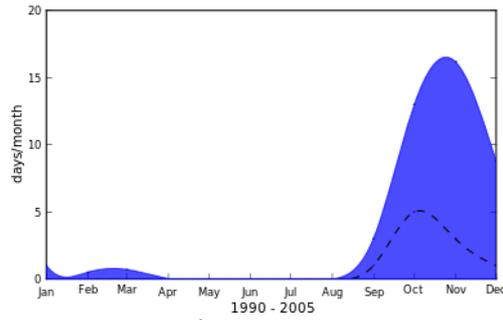


Figure A.10.11: Annual cycle days/month exceeding 33.4 deg C for KIA station.

### Observed seasonal heat spell length

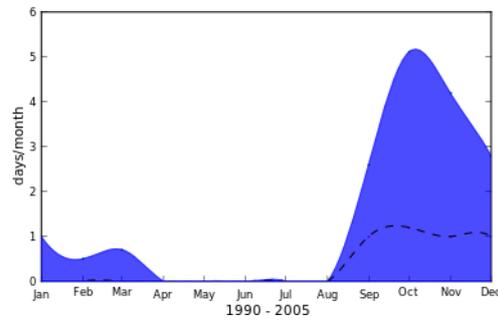


Figure A.10.12: Annual cycle of monthly mean heat spell duration (33.4 deg C) for KIA station.

### Observed seasonal daily minimum temperatures

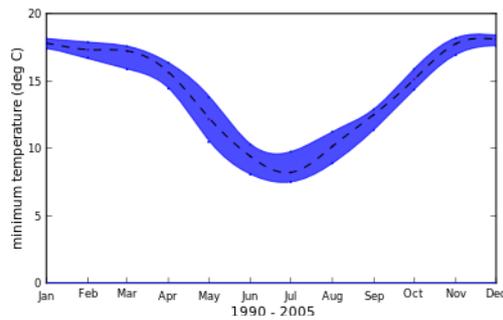


Figure A.10.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for KIA station.

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# Climate Summary Report for MAKOKA

## MAKOKA



Figure A.11.1: Map showing location of MAKOKA observation station

## Observed climate

### Observed seasonal rainfall

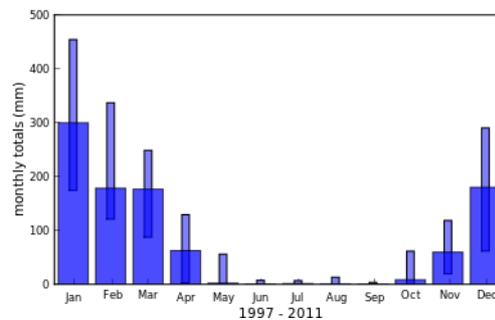


Figure A.11.2: Annual cycle of monthly rainfall (mm) for MAKOKA station.

### Observed seasonal mean dry spell duration

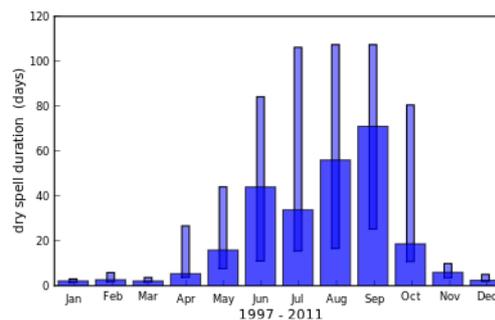


Figure A.11.3: Annual cycle of monthly mean dry spell duration for MAKOKA station (> 0.3mm).

### Observed seasonal mean dry spell duration

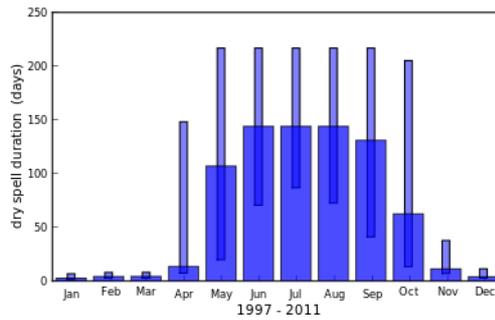


Figure A.11.4: Annual cycle of monthly mean dry spell duration for MAKOKA station (> 5mm ).

### Observed monthly mean rain day frequency

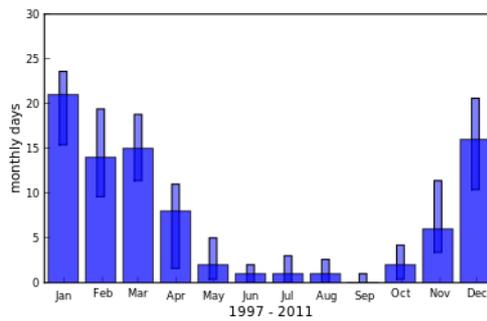


Figure A.11.5: Annual cycle of monthly rain days > 0.3 mm (days) for MAKOKA station.

### Observed monthly mean rain day frequency

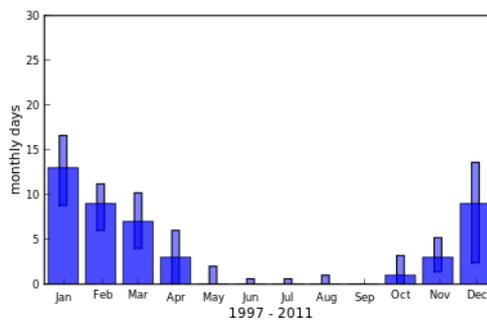


Figure A.11.6: Annual cycle of monthly rain days > 5 mm (days) for MAKOKA station.

### Observed monthly mean rain day frequency

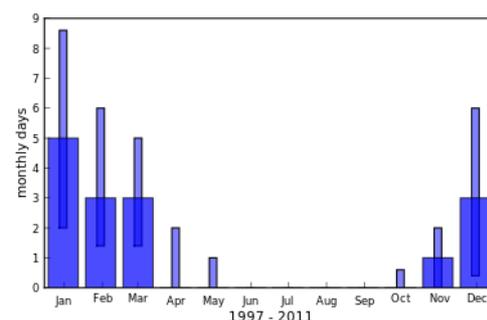


Figure A.11.7: Annual cycle of monthly rain days > 20 mm (days) for MAKOKA station.

### Observed monthly mean extreme rain day frequency

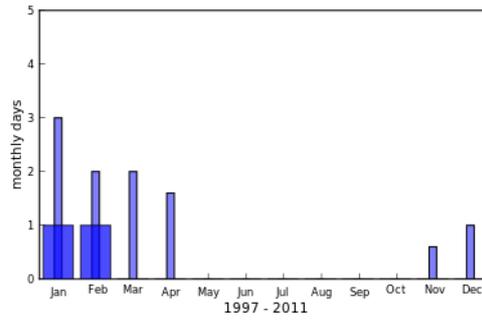


Figure A.11.8: Annual cycle of monthly rain days > 95th percentile (44.7 mm) (days) for MAKOKA station.

### Observed seasonal daily maximum temperatures

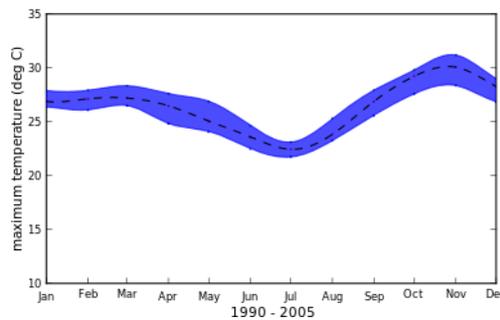


Figure A.11.9: Annual cycle of monthly mean maximum daily temperatures (degC) for MAKOKA station.

### Observed seasonal days/month exceeding 36 degC

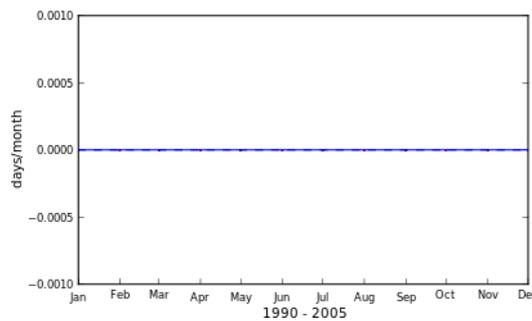


Figure A.11.10: Annual cycle days/month exceeding 36 deg C for MAKOKA station.

### Observed seasonal days/month exceeding 95th percentile

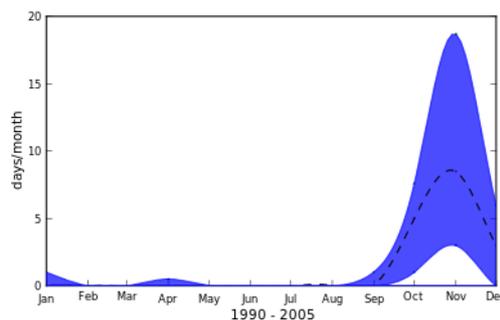


Figure A.11.11: Annual cycle days/month exceeding 31.5 deg C for MAKOKA station.

### Observed seasonal heat spell length

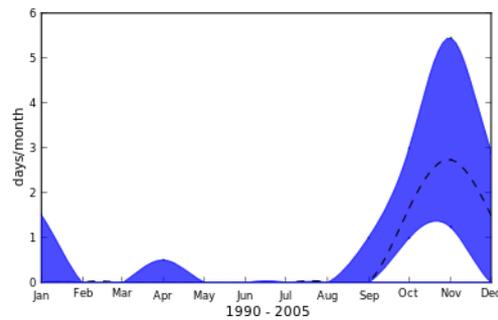


Figure A.11.12: Annual cycle of monthly mean heat spell duration (31.5 deg C) for MAKOKA station.

### Observed seasonal daily minimum temperatures

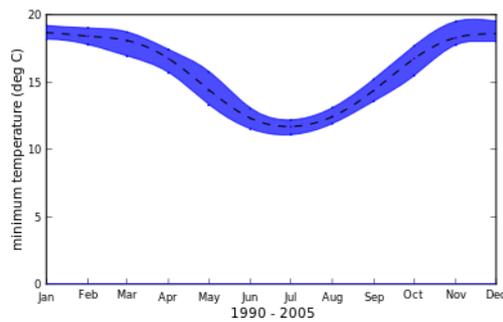


Figure A.11.13: Annual cycle of monthly mean minimum daily temperatures (degC) for MAKOKA station.

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# Climate Summary Report for MANGOCHI

## MANGOCHI



Figure A.12.1: Map showing location of MANGOCHI observation station

## Observed climate

### Observed seasonal rainfall

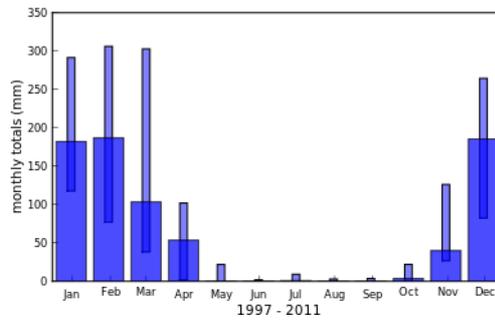


Figure A.12.2: Annual cycle of monthly rainfall (mm) for MANGOCHI station.

### Observed seasonal mean dry spell duration

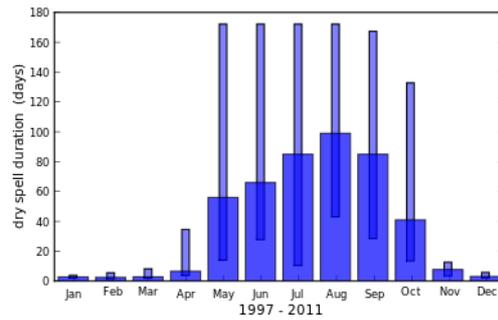


Figure A.12.3: Annual cycle of monthly mean dry spell duration for MANGOCHI station (> 0.3mm ).

### Observed seasonal mean dry spell duration

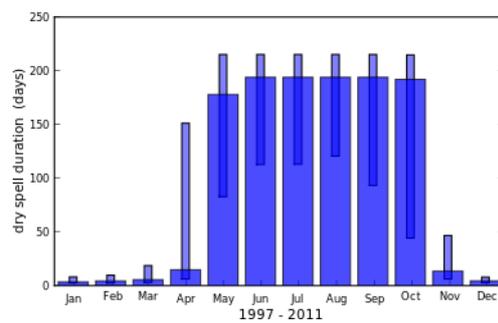


Figure A.12.4: Annual cycle of monthly mean dry spell duration for MANGOCHI station (> 5mm ).

### Observed monthly mean rain day frequency

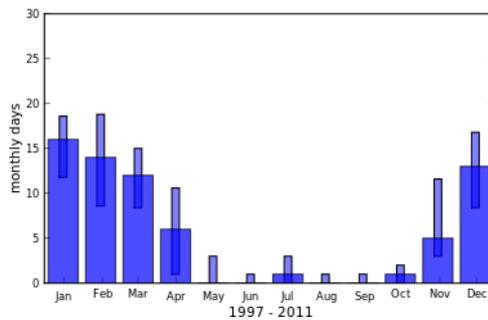


Figure A.12.5: Annual cycle of monthly rain days > 0.3 mm (days) for MANGOCHI station.

### Observed monthly mean rain day frequency

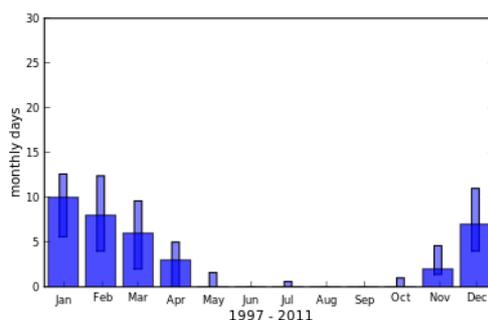


Figure A.12.6: Annual cycle of monthly rain days > 5 mm (days) for MANGOCHI station.

### Observed monthly mean rain day frequency

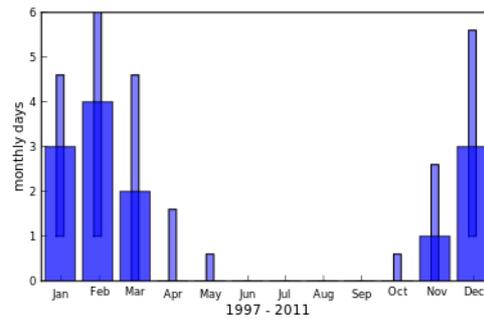


Figure A.12.7: Annual cycle of monthly rain days > 20 mm (days) for MANGOCHI station.

### Observed monthly mean extreme rain day frequency

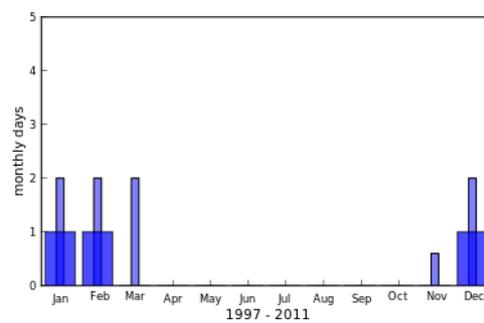


Figure A.12.8: Annual cycle of monthly rain days > 95th percentile (41.7 mm) (days) for MANGOCHI station.

### Observed seasonal daily maximum temperatures

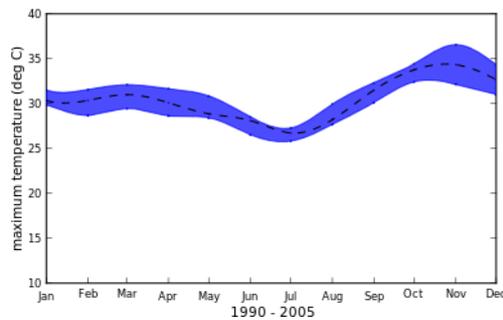


Figure A.12.9: Annual cycle of monthly mean maximum daily temperatures (degC) for MANGOCHI station.

### Observed seasonal days/month exceeding 36 degC

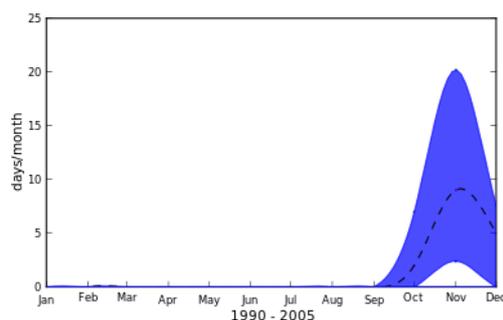


Figure A.12.10: Annual cycle days/month exceeding 36 deg C for MANGOCHI station.

## Observed seasonal days/month exceeding 95th percentile

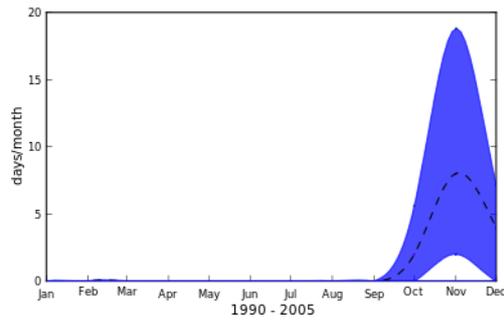


Figure A.12.11: Annual cycle days/month exceeding 36.3 deg C for MANGOCHI station.

## Observed seasonal heat spell length

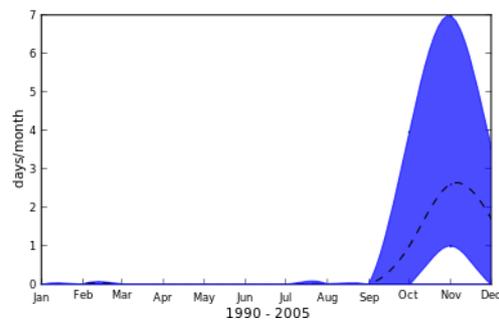


Figure A.12.12: Annual cycle of monthly mean heat spell duration (36.3 deg C) for MANGOCHI station.

## Observed seasonal daily minimum temperatures

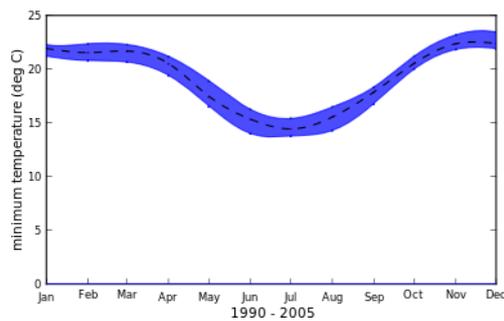


Figure A.12.13: Annual cycle of monthly mean minimum daily temperatures (degC) for MANGOCHI station.

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# Climate Summary Report for MONKEYBAY



Figure A.14.1: Map showing location of MONKEYBAY observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

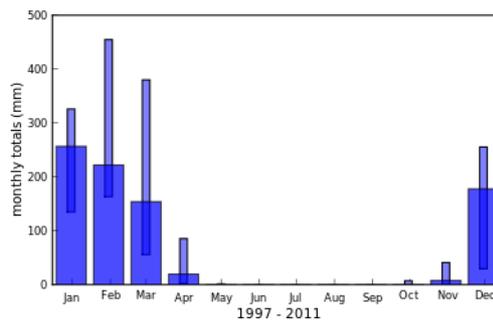


Figure A.14.2: Annual cycle of monthly rainfall (mm) for MONKEYBAY station.

### Observed seasonal mean dry spell duration

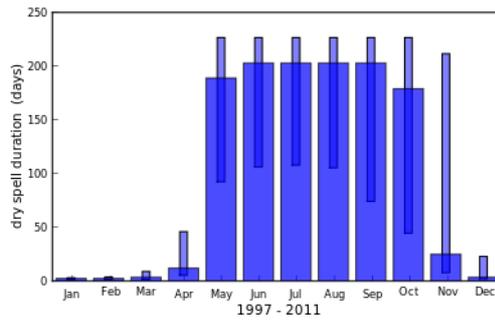


Figure A.14.3: Annual cycle of monthly mean dry spell duration for MONKEYBAY station (> 0.3mm ).

### Observed seasonal mean dry spell duration

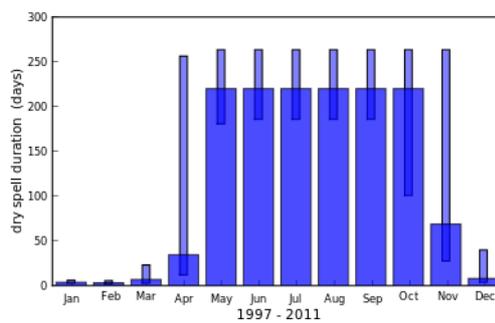


Figure A.14.4: Annual cycle of monthly mean dry spell duration for MONKEYBAY station (> 5mm ).

### Observed monthly mean rain day frequency

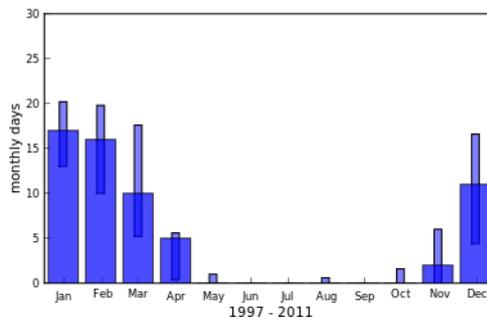


Figure A.14.5: Annual cycle of monthly rain days > 0.3 mm (days) for MONKEYBAY station.

### Observed monthly mean rain day frequency

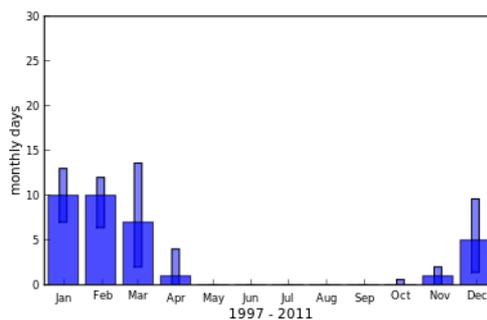


Figure A.14.6: Annual cycle of monthly rain days > 5 mm (days) for MONKEYBAY station.

### Observed monthly mean rain day frequency

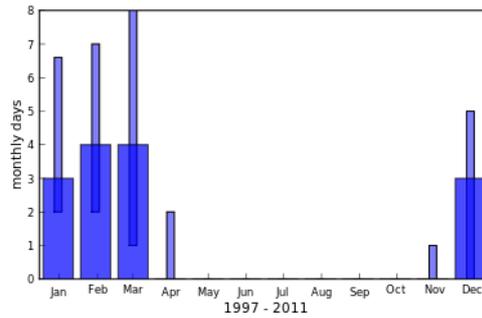


Figure A.14.7: Annual cycle of monthly rain days > 20 mm (days) for MONKEYBAY station.

### Observed monthly mean extreme rain day frequency

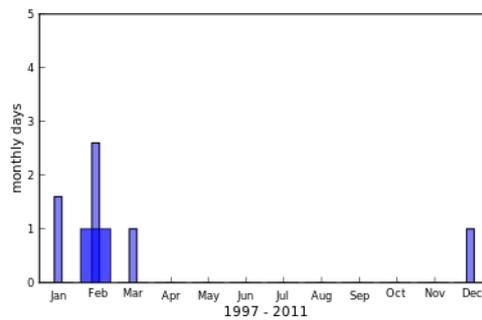


Figure A.14.8: Annual cycle of monthly rain days > 95th percentile (57.2 mm) (days) for MONKEYBAY station.

### Observed seasonal daily maximum temperatures

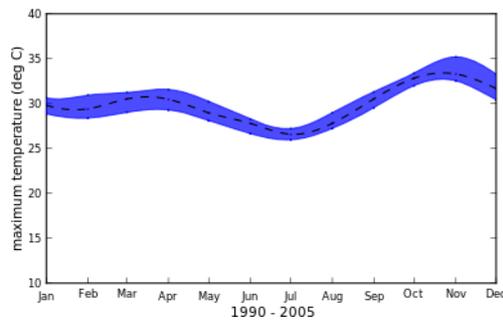


Figure A.14.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for MONKEYBAY station.

### Observed seasonal days/month exceeding 36 deg C

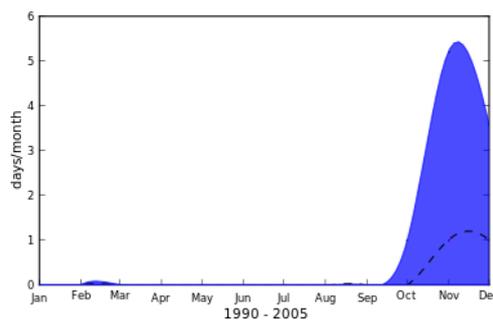


Figure A.14.10: Annual cycle days/month exceeding 36 deg C for MONKEYBAY station.

## Observed seasonal days/month exceeding 95th percentile

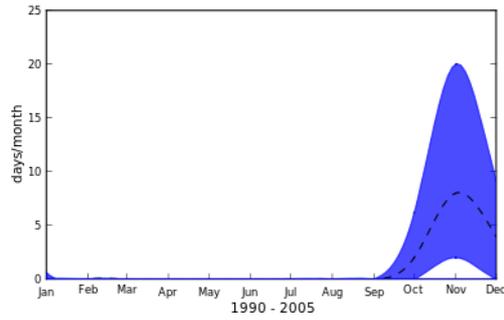


Figure A.14.11: Annual cycle days/month exceeding 34.7 deg C for MONKEYBAY station.

## Observed seasonal heat spell length

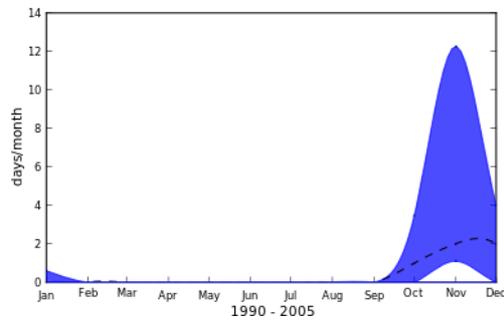


Figure A.14.12: Annual cycle of monthly mean heat spell duration (34.7 deg C) for MONKEYBAY station.

## Observed seasonal daily minimum temperatures

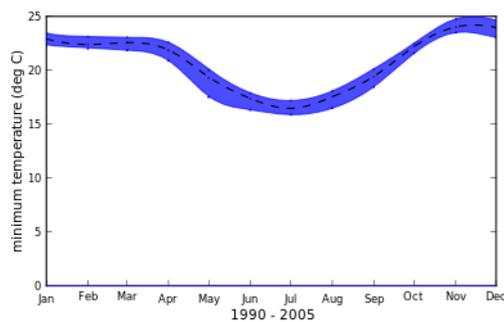


Figure A.14.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for MONKEYBAY station.

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# Climate Summary Report for MZIMBA



Figure A.15.1: Map showing location of MZIMBA observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

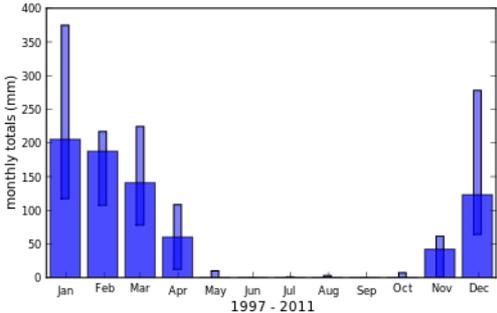


Figure A.15.2: Annual cycle of monthly rainfall (mm) for MZIMBA station.

### Observed seasonal mean dry spell duration

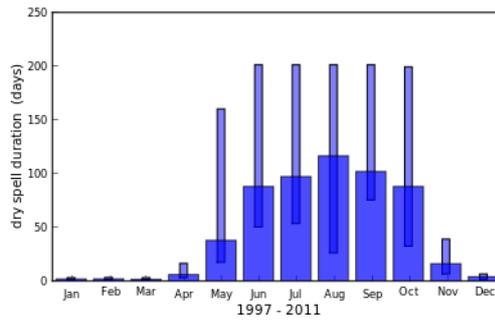


Figure A.15.3: Annual cycle of monthly mean dry spell duration for MZIMBA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

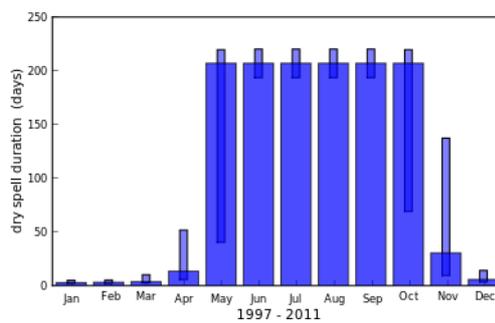


Figure A.15.4: Annual cycle of monthly mean dry spell duration for MZIMBA station (> 5mm ).

### Observed monthly mean rain day frequency

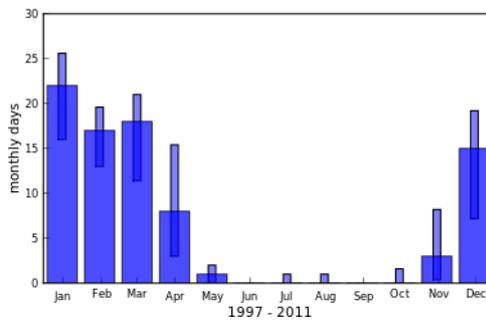


Figure A.15.5: Annual cycle of monthly rain days > 0.3 mm (days) for MZIMBA station.

### Observed monthly mean rain day frequency

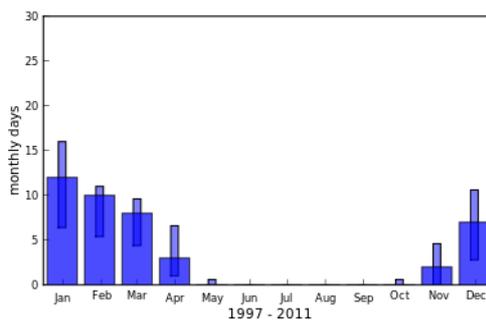


Figure A.15.6: Annual cycle of monthly rain days > 5 mm (days) for MZIMBA station.

### Observed monthly mean rain day frequency

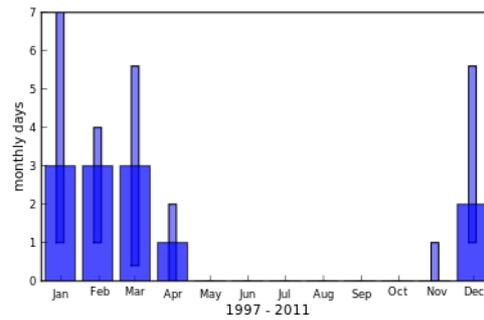


Figure A.15.7: Annual cycle of monthly rain days > 20 mm (days) for MZIMBA station.

### Observed monthly mean extreme rain day frequency

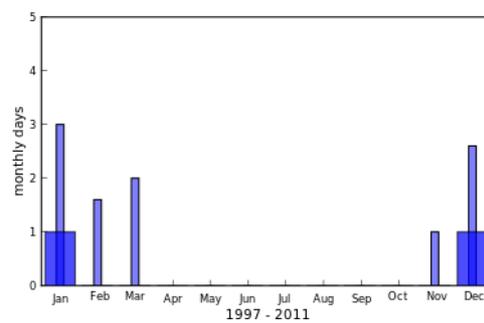


Figure A.15.8: Annual cycle of monthly rain days > 95th percentile (35.6 mm) (days) for MZIMBA station.

### Observed seasonal daily maximum temperatures

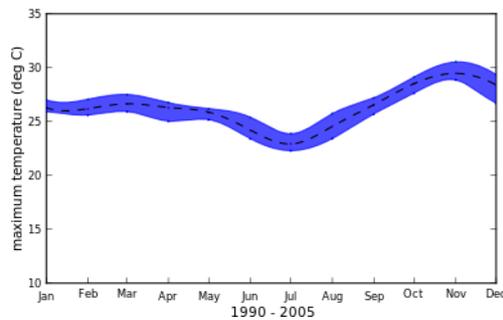


Figure A.15.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for MZIMBA station.

### Observed seasonal days/month exceeding 36 deg C

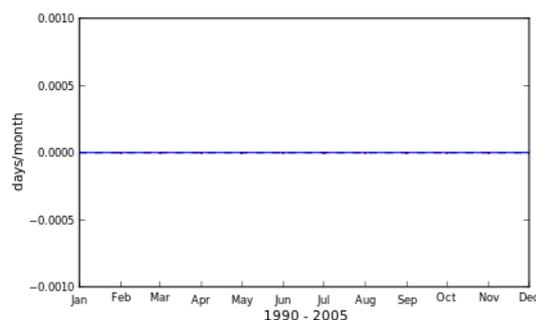


Figure A.15.10: Annual cycle days/month exceeding 36 deg C for MZIMBA station.

## Observed seasonal days/month exceeding 95th percentile

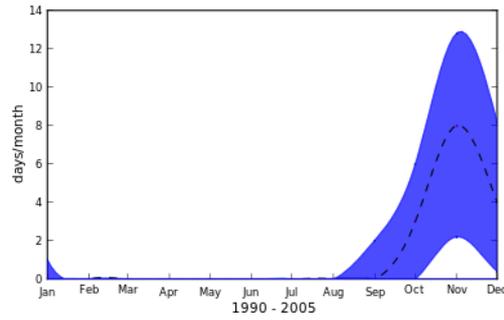


Figure A.15.11: Annual cycle days/month exceeding 30.5 deg C for MZIMBA station.

## Observed seasonal heat spell length

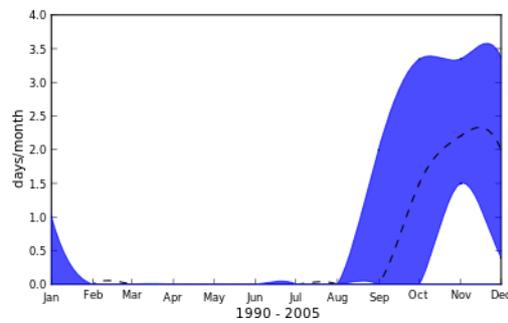


Figure A.15.12: Annual cycle of monthly mean heat spell duration (30.5 deg C) for MZIMBA station.

## Observed seasonal daily minimum temperatures

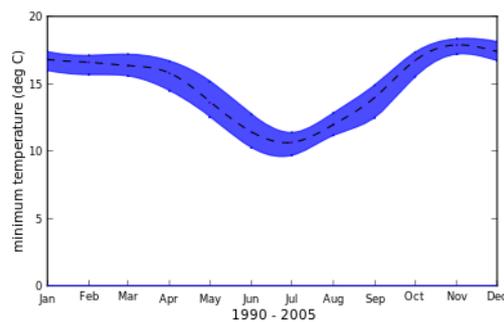


Figure A.15.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for MZIMBA station.

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# Climate Summary Report for MZUZU



Figure A.16.1: Map showing location of MZUZU observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

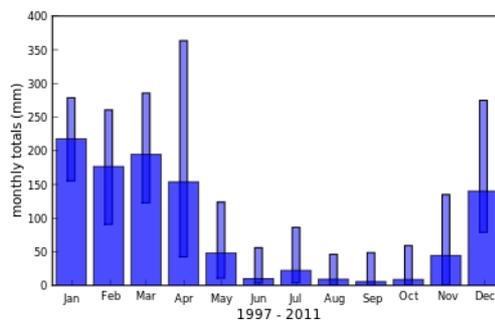


Figure A.16.2: Annual cycle of monthly rainfall (mm) for MZUZU station.

### Observed seasonal mean dry spell duration

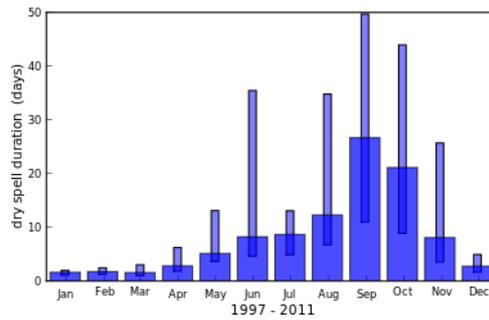


Figure A.16.3: Annual cycle of monthly mean dry spell duration for MZUZU station (> 0.3mm).

### Observed seasonal mean dry spell duration

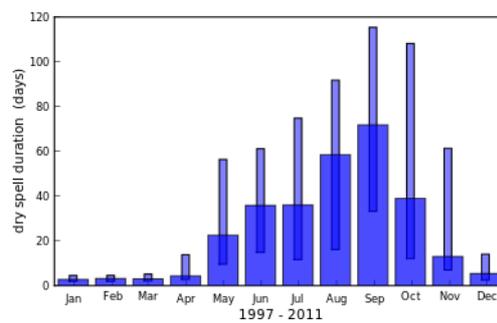


Figure A.16.4: Annual cycle of monthly mean dry spell duration for MZUZU station (> 5mm).

### Observed monthly mean rain day frequency

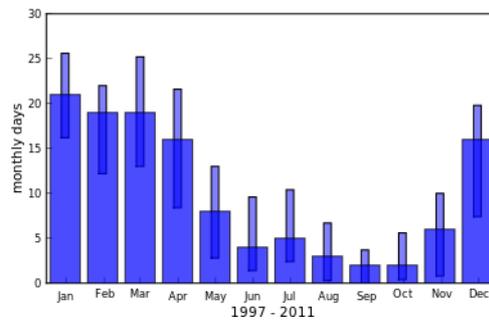


Figure A.16.5: Annual cycle of monthly rain days > 0.3 mm (days) for MZUZU station.

### Observed monthly mean rain day frequency

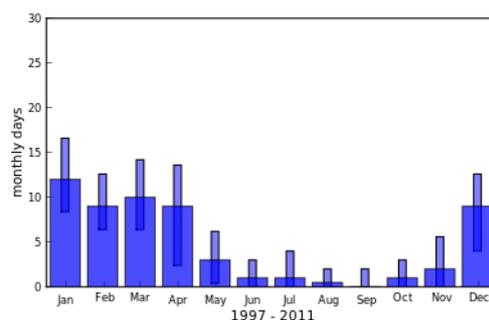


Figure A.16.6: Annual cycle of monthly rain days > 5 mm (days) for MZUZU station.

### Observed monthly mean rain day frequency

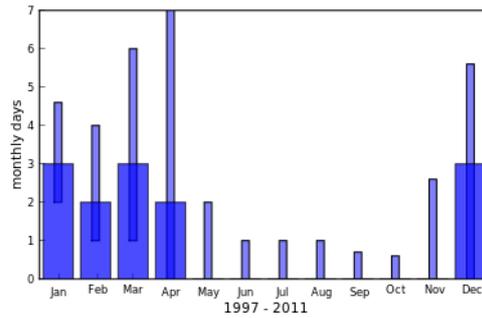


Figure A.16.7: Annual cycle of monthly rain days > 20 mm (days) for MZUZU station.

### Observed monthly mean extreme rain day frequency

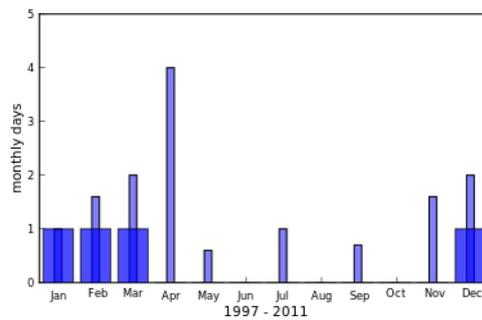


Figure A.16.8: Annual cycle of monthly rain days > 95th percentile (35.7 mm) (days) for MZUZU station.

### Observed seasonal daily maximum temperatures

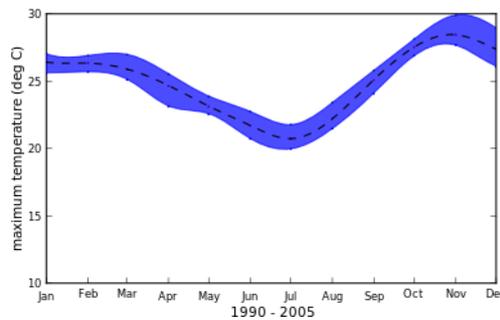


Figure A.16.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for MZUZU station.

### Observed seasonal days/month exceeding 36 deg C

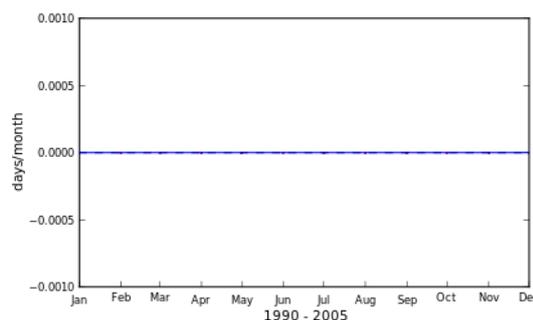


Figure A.16.10: Annual cycle days/month exceeding 36 deg C for MZUZU station.

## Observed seasonal days/month exceeding 95th percentile

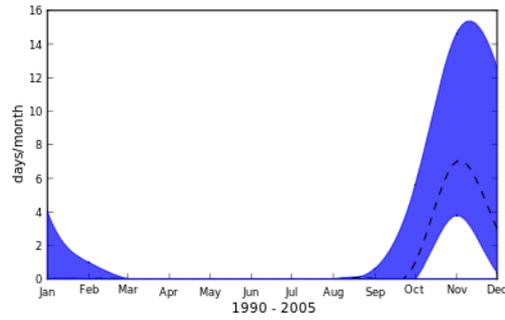


Figure A.16.11: Annual cycle days/month exceeding 30 deg C for MZUZU station.

## Observed seasonal heat spell length

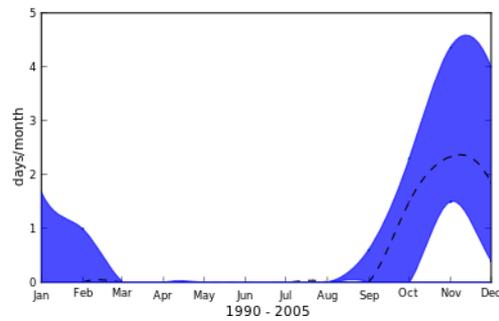


Figure A.16.12: Annual cycle of monthly mean heat spell duration (30 deg C) for MZUZU station.

## Observed seasonal daily minimum temperatures

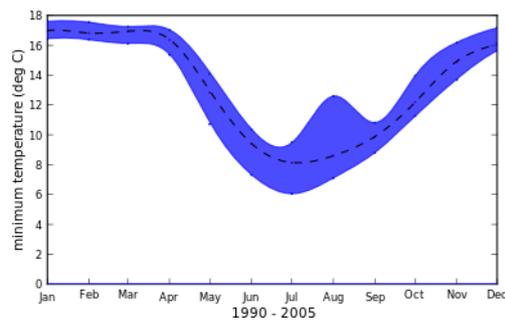


Figure A.16.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for MZUZU station.

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# Climate Summary Report for NGABU

## NGABU



Figure A.17.1: Map showing location of NGABU observation station

## Observed climate

### Observed seasonal rainfall

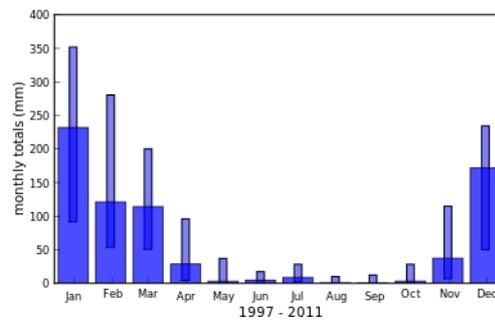


Figure A.17.2: Annual cycle of monthly rainfall (mm) for NGABU station.

### Observed seasonal mean dry spell duration

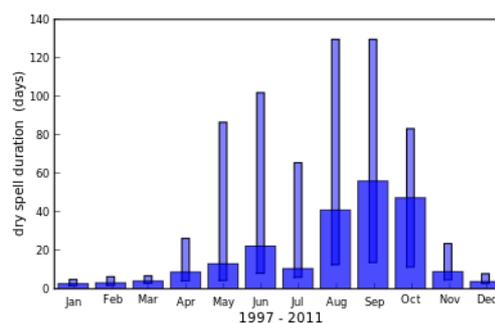


Figure A.17.3: Annual cycle of monthly mean dry spell duration for NGABU station ( $> 0.3\text{mm}$ ).

### Observed seasonal mean dry spell duration

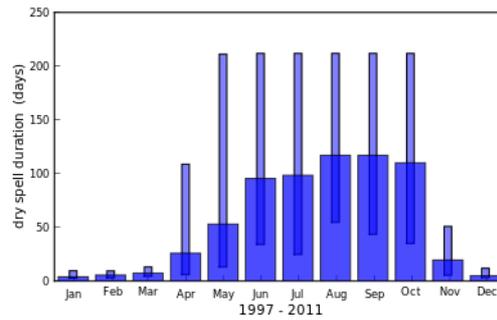


Figure A.17.4: Annual cycle of monthly mean dry spell duration for NGABU station (> 5mm).

### Observed monthly mean rain day frequency

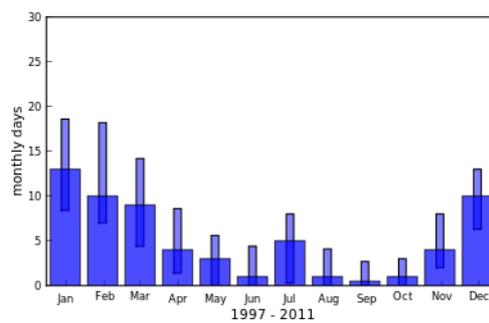


Figure A.17.5: Annual cycle of monthly rain days > 0.3 mm (days) for NGABU station.

### Observed monthly mean rain day frequency

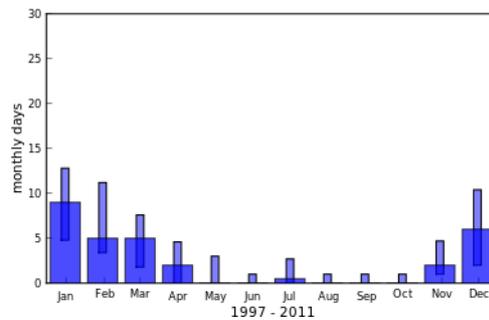


Figure A.17.6: Annual cycle of monthly rain days > 5 mm (days) for NGABU station.

### Observed monthly mean rain day frequency

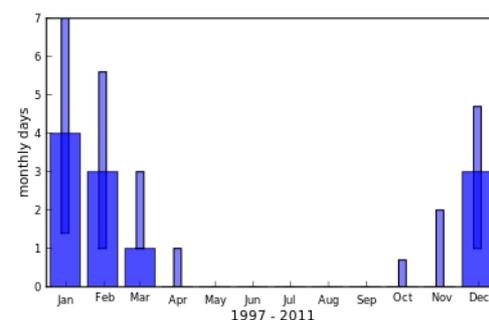


Figure A.17.7: Annual cycle of monthly rain days > 20 mm (days) for NGABU station.

## Observed monthly mean extreme rain day frequency

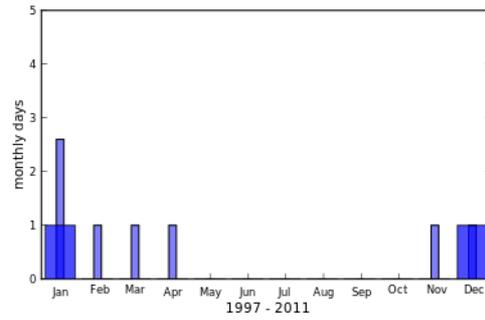


Figure A.17.8: Annual cycle of monthly rain days > 95th percentile (48.2 mm) (days) for NGABU station.

## Observed seasonal daily maximum temperatures

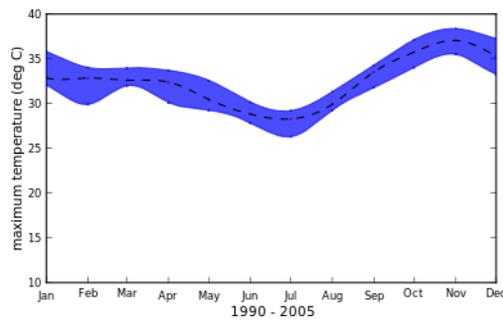


Figure A.17.9: Annual cycle of monthly mean maximum daily temperatures (degC) for NGABU station.

## Observed seasonal days/month exceeding 36 degC

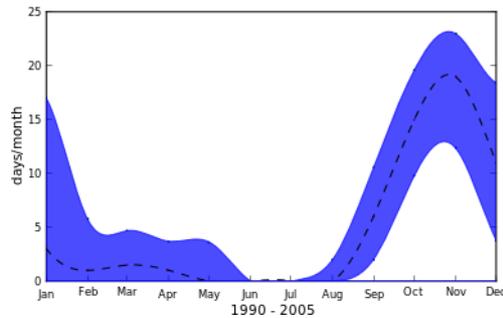


Figure A.17.10: Annual cycle days/month exceeding 36 deg C for NGABU station.

## Observed seasonal days/month exceeding 95th percentile

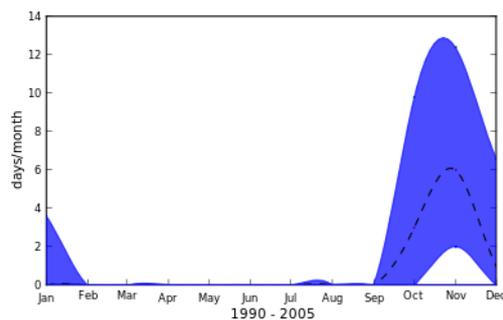


Figure A.17.11: Annual cycle days/month exceeding 39.5 deg C for NGABU station.

### Observed seasonal heat spell length

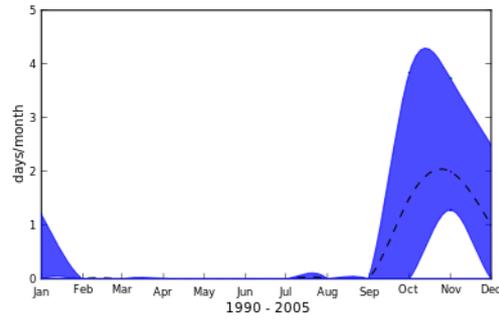


Figure A.17.12: Annual cycle of monthly mean heat spell duration (39.5 deg C) for NGABU station.

### Observed seasonal daily minimum temperatures

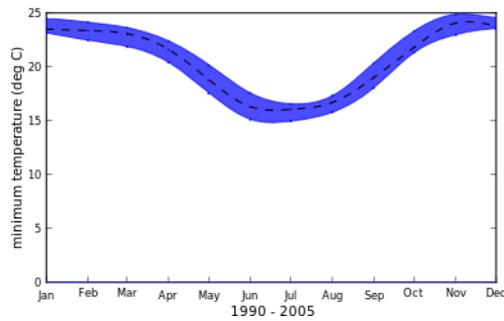


Figure A.17.13: Annual cycle of monthly mean minimum daily temperatures (degC) for NGABU station.

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# Climate Summary Report for NKHATA BAY



Figure A.18.1: Map showing location of NKHATA BAY observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

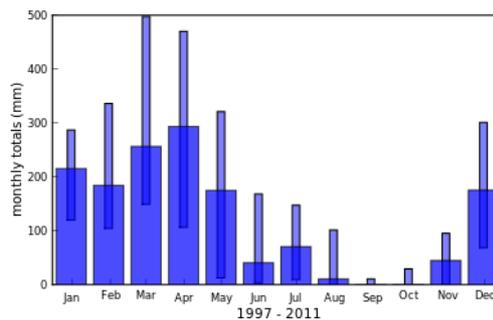


Figure A.18.2: Annual cycle of monthly rainfall (mm) for NKHATA BAY station.

### Observed seasonal mean dry spell duration

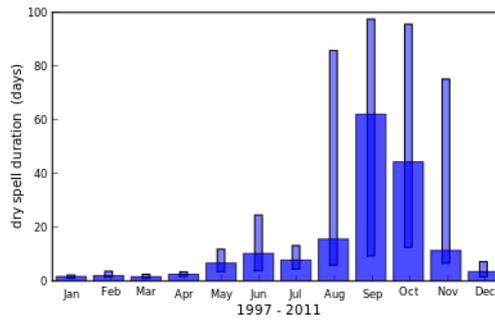


Figure A.18.3: Annual cycle of monthly mean dry spell duration for NKHATA BAY station (> 0.3mm).

### Observed seasonal mean dry spell duration

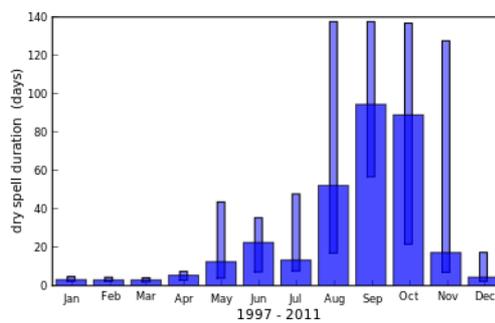


Figure A.18.4: Annual cycle of monthly mean dry spell duration for NKHATA BAY station (> 5mm).

### Observed monthly mean rain day frequency

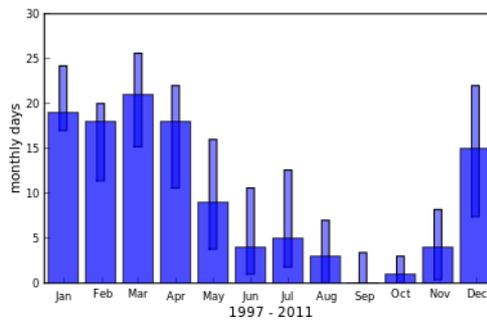


Figure A.18.5: Annual cycle of monthly rain days > 0.3 mm (days) for NKHATA BAY station.

### Observed monthly mean rain day frequency

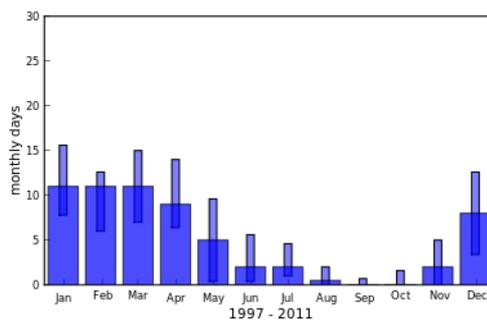


Figure A.18.6: Annual cycle of monthly rain days > 5 mm (days) for NKHATA BAY station.

### Observed monthly mean rain day frequency

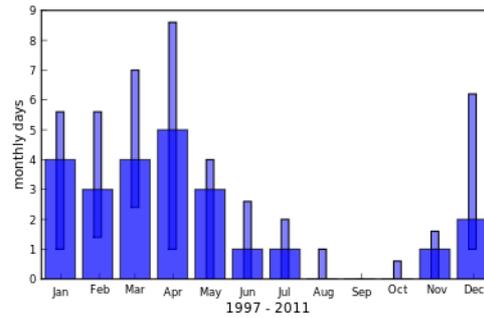


Figure A.18.7: Annual cycle of monthly rain days > 20 mm (days) for NKHATA BAY station.

### Observed monthly mean extreme rain day frequency

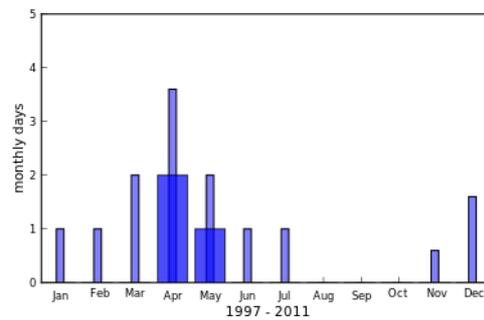


Figure A.18.8: Annual cycle of monthly rain days > 95th percentile (55 mm) (days) for NKHATA BAY station.

### Observed seasonal daily maximum temperatures

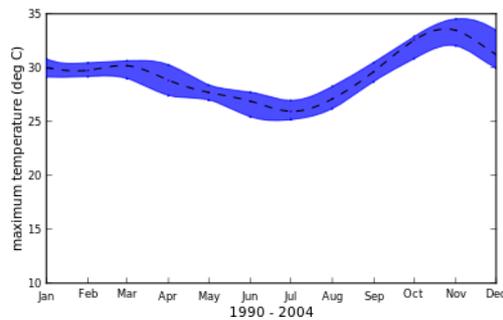


Figure A.18.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for NKHATA BAY station.

### Observed seasonal days/month exceeding 36 deg C

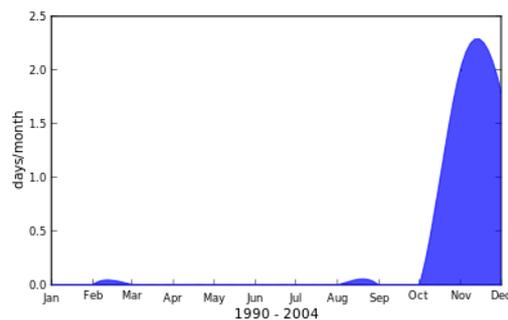


Figure A.18.10: Annual cycle days/month exceeding 36 deg C for NKHATA BAY station.

## Observed seasonal days/month exceeding 95th percentile

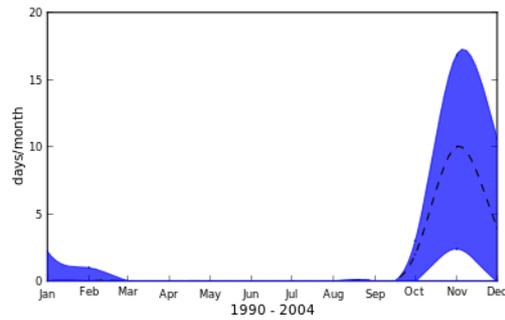


Figure A.18.11: Annual cycle days/month exceeding 34.3 deg C for NKHATA BAY station.

## Observed seasonal heat spell length

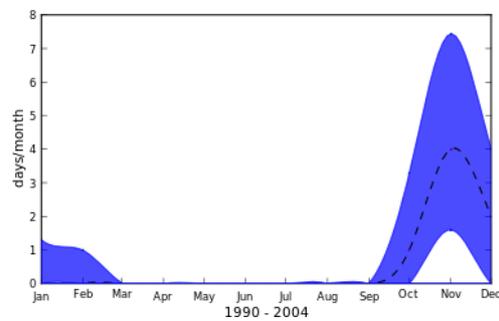


Figure A.18.12: Annual cycle of monthly mean heat spell duration (34.3 deg C) for NKHATA BAY station.

## Observed seasonal daily minimum temperatures

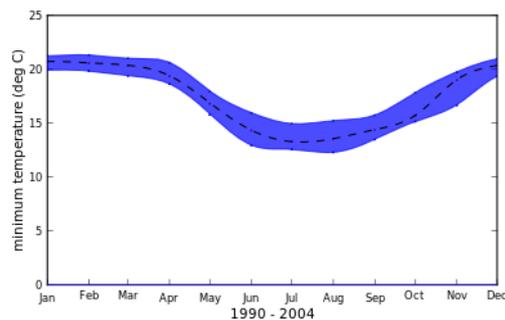


Figure A.18.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for NKHATA BAY station.

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# Climate Summary Report for NKHOTA KOTA



Figure A.19.1: Map showing location of NKHOTA KOTA observation station

## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

### Observed seasonal rainfall

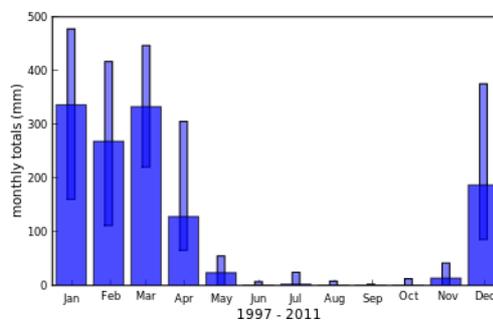


Figure A.19.2: Annual cycle of monthly rainfall (mm) for NKHOTA KOTA station.

### Observed seasonal mean dry spell duration

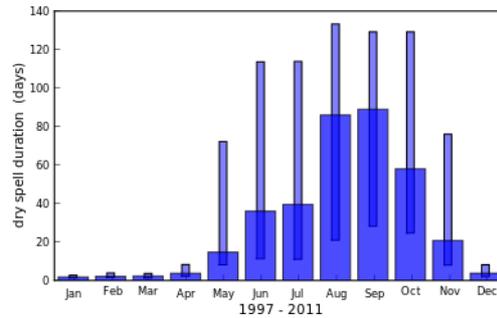


Figure A.19.3: Annual cycle of monthly mean dry spell duration for NKHOTA KOTA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

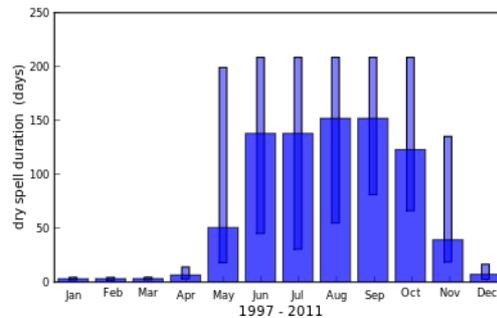


Figure A.19.4: Annual cycle of monthly mean dry spell duration for NKHOTA KOTA station (> 5mm ).

### Observed monthly mean rain day frequency

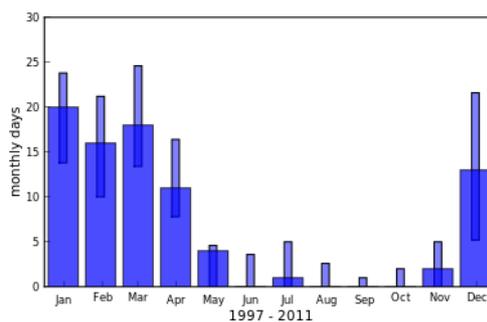


Figure A.19.5: Annual cycle of monthly rain days > 0.3 mm (days) for NKHOTA KOTA station.

### Observed monthly mean rain day frequency

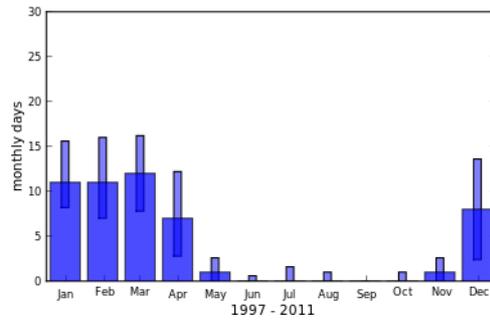


Figure A.19.6: Annual cycle of monthly rain days > 5 mm (days) for NKHOTA KOTA station.

**Observed monthly mean rain day frequency**

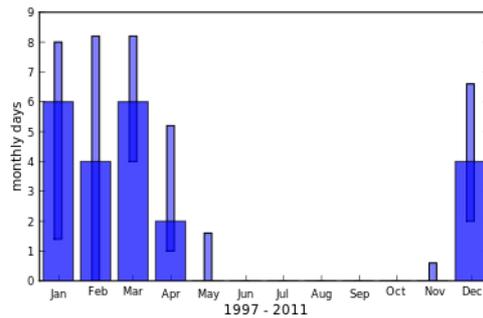


Figure A.19.7: Annual cycle of monthly rain days > 20 mm (days) for NKHOTA KOTA station.

**Observed monthly mean extreme rain day frequency**

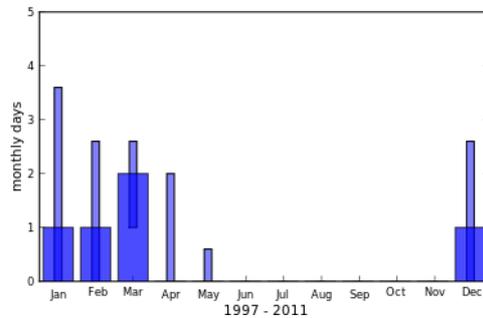


Figure A.19.8: Annual cycle of monthly rain days > 95th percentile (47.5 mm) (days) for NKHOTA KOTA station.

**Observed seasonal daily maximum temperatures**

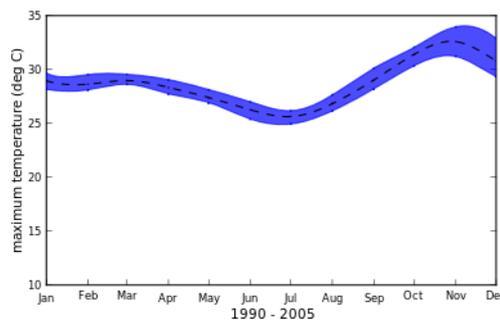


Figure A.19.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for NKHOTA KOTA station.

**Observed seasonal days/month exceeding 36 deg C**

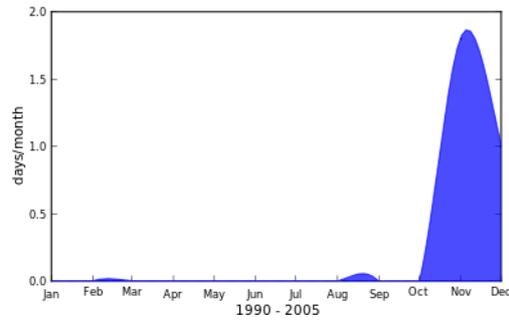


Figure A.19.10: Annual cycle days/month exceeding 36 deg C for NKHOTA KOTA station.

### Observed seasonal days/month exceeding 95th percentile

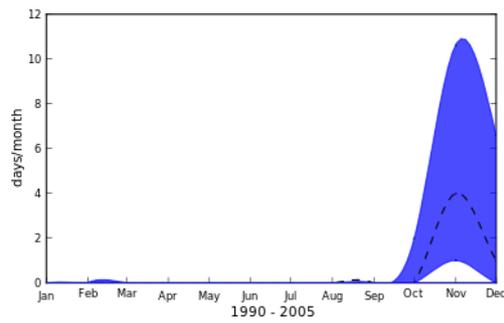


Figure A.19.11: Annual cycle days/month exceeding 34.5 deg C for NKHOTA KOTA station.

### Observed seasonal heat spell length

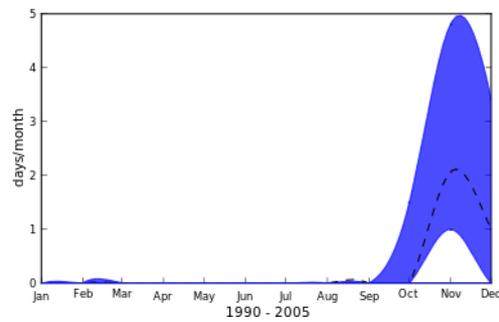
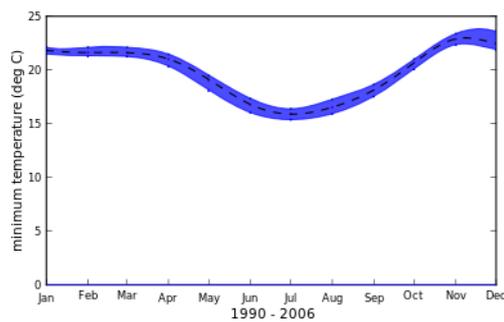


Figure A.19.12: Annual cycle of monthly mean heat spell duration (34.5 deg C) for NKHOTA KOTA station.

### Observed seasonal daily minimum temperatures



# Climate Summary Report for NTAJA

## NTAJA



Figure A.20.1: Map showing location of NTAJA observation station

## Observed climate

### Observed seasonal rainfall

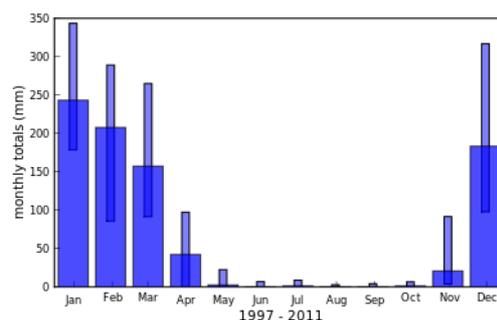


Figure A.20.2: Annual cycle of monthly rainfall (mm) for NTAJA station.

### Observed seasonal mean dry spell duration

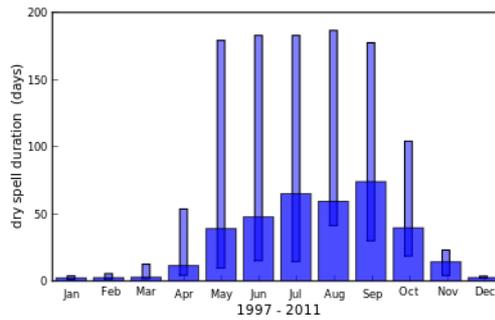


Figure A.20.3: Annual cycle of monthly mean dry spell duration for NTAJA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

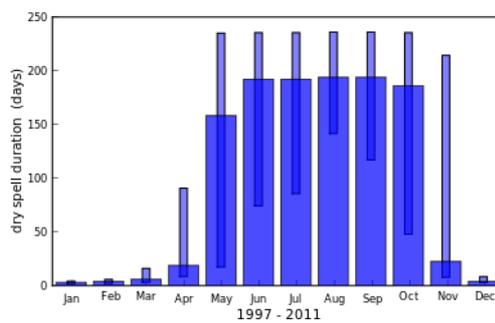


Figure A.20.4: Annual cycle of monthly mean dry spell duration for NTAJA station (> 5mm ).

### Observed monthly mean rain day frequency

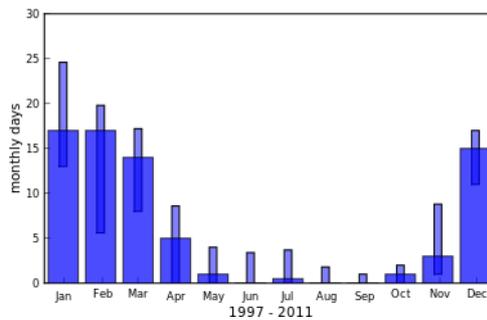


Figure A.20.5: Annual cycle of monthly rain days > 0.3 mm (days) for NTAJA station.

### Observed monthly mean rain day frequency

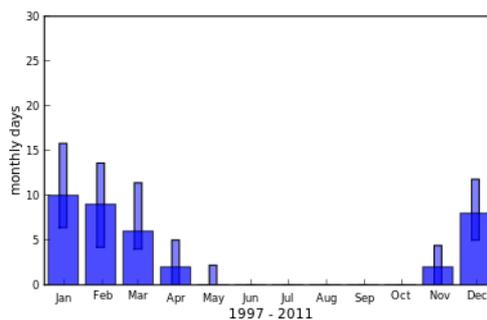


Figure A.20.6: Annual cycle of monthly rain days > 5 mm (days) for NTAJA station.

### Observed monthly mean rain day frequency

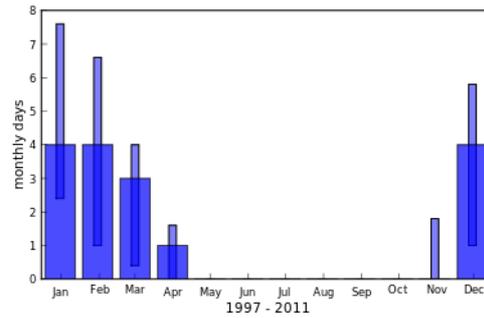


Figure A.20.7: Annual cycle of monthly rain days > 20 mm (days) for NTAJA station.

### Observed monthly mean extreme rain day frequency

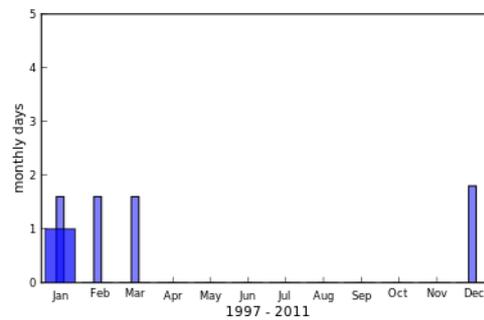


Figure A.20.8: Annual cycle of monthly rain days > 95th percentile (55.3 mm) (days) for NTAJA station.

### Observed seasonal daily maximum temperatures

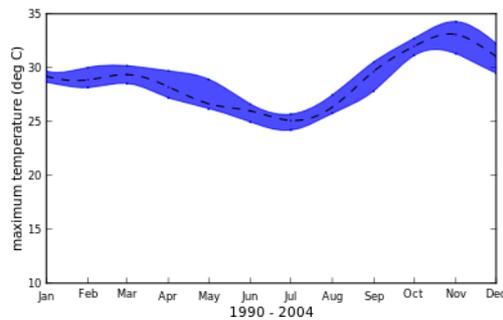


Figure A.20.9: Annual cycle of monthly mean maximum daily temperatures (degC) for NTAJA station.

### Observed seasonal days/month exceeding 36 degC

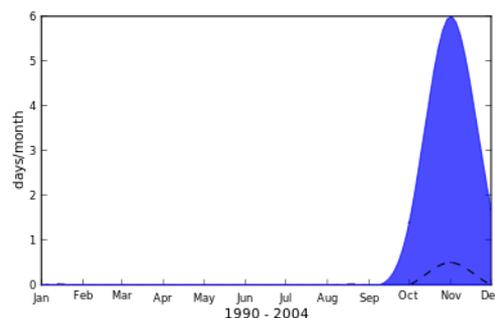


Figure A.20.10: Annual cycle days/month exceeding 36 deg C for NTAJA station.

## Observed seasonal days/month exceeding 95th percentile

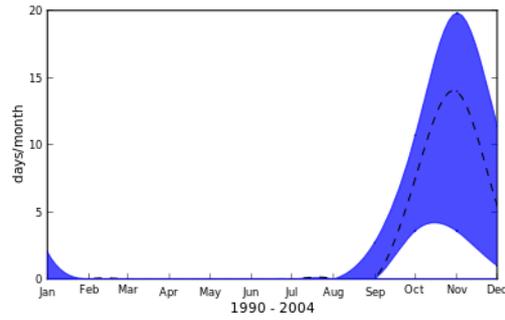


Figure A.20.11: Annual cycle days/month exceeding 33.6 deg C for NTAJA station.

## Observed seasonal heat spell length

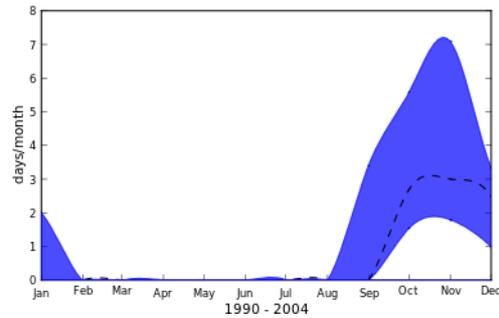


Figure A.20.12: Annual cycle of monthly mean heat spell duration (33.6 deg C) for NTAJA station.

## Observed seasonal daily minimum temperatures

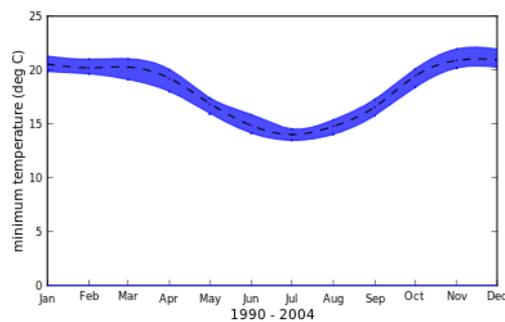


Figure A.20.13: Annual cycle of monthly mean minimum daily temperatures (degC) for NTAJA station.

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# Climate Summary Report for SALIMA



Figure A.21.1: Map showing location of SALIMA observation station

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## Observed climate

Explanation of Historic Observation Plots -

Precipitation: Observed monthly median climatology (wide bars) with the 10th to 90th percentile inter-annual range (narrow bars).

Temperature: Observed monthly median climatology for the observed period (dashed line). Blue envelope represents the 10th to 90th percentile range of inter-annual variability.

## Observed seasonal rainfall

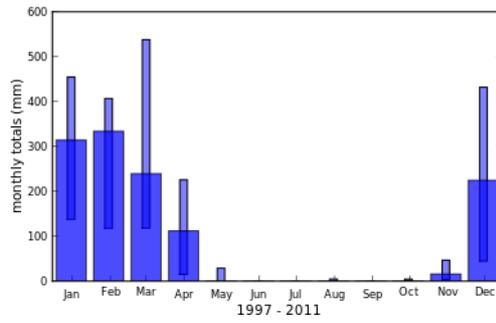


Figure A.21.2: Annual cycle of monthly rainfall (mm) for SALIMA station.

### Observed seasonal mean dry spell duration

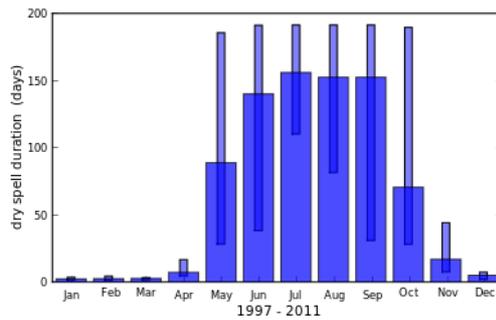


Figure A.21.3: Annual cycle of monthly mean dry spell duration for SALIMA station (> 0.3mm ).

### Observed seasonal mean dry spell duration

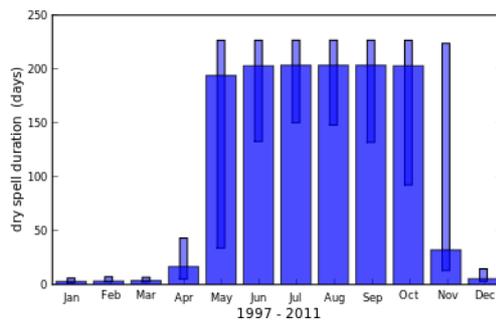


Figure A.21.4: Annual cycle of monthly mean dry spell duration for SALIMA station (> 5mm ).

### Observed monthly mean rain day frequency

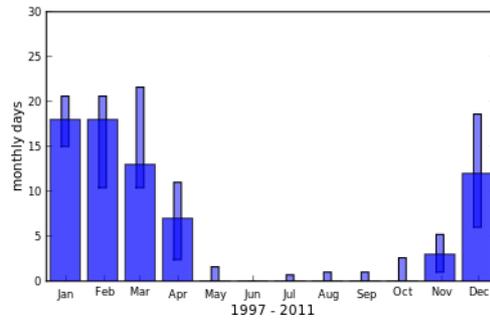


Figure A.21.5: Annual cycle of monthly rain days > 0.3 mm (days) for SALIMA station.

**Observed monthly mean rain day frequency**

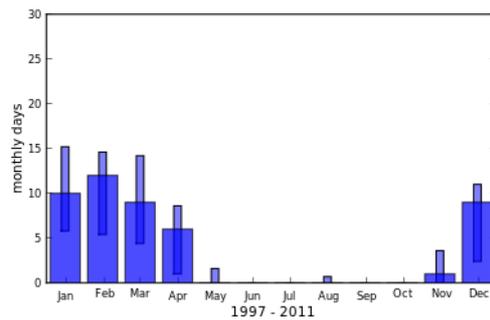


Figure A.21.6: Annual cycle of monthly rain days > 5 mm (days) for SALIMA station.

**Observed monthly mean rain day frequency**

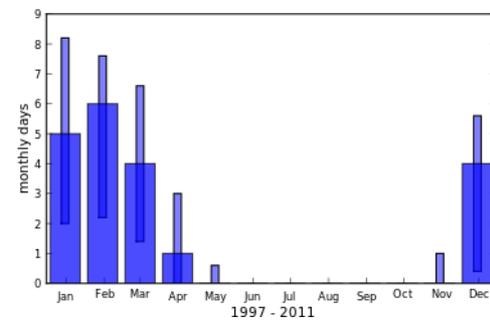


Figure A.21.7: Annual cycle of monthly rain days > 20 mm (days) for SALIMA station.

**Observed monthly mean extreme rain day frequency**

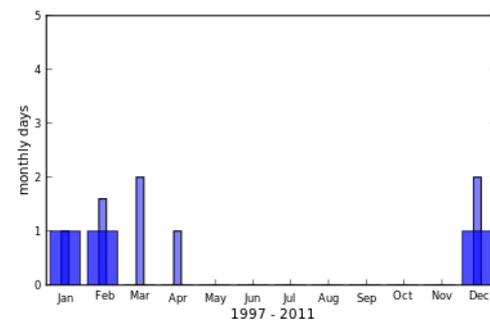


Figure A.21.8: Annual cycle of monthly rain days > 95th percentile (66.9 mm) (days) for SALIMA station.

**Observed seasonal daily maximum temperatures**

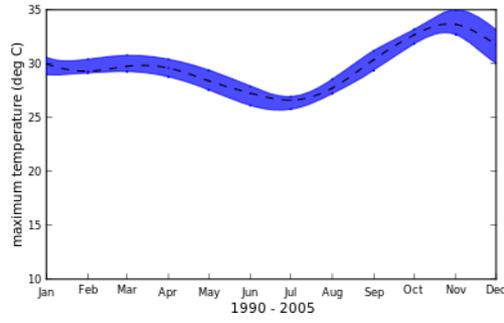


Figure A.21.9: Annual cycle of monthly mean maximum daily temperatures (deg C) for SALIMA station.

### Observed seasonal days/month exceeding 36 deg C

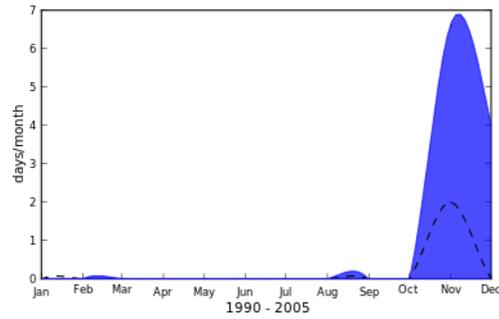


Figure A.21.10: Annual cycle days/month exceeding 36 deg C for SALIMA station.

### Observed seasonal days/month exceeding 95th percentile

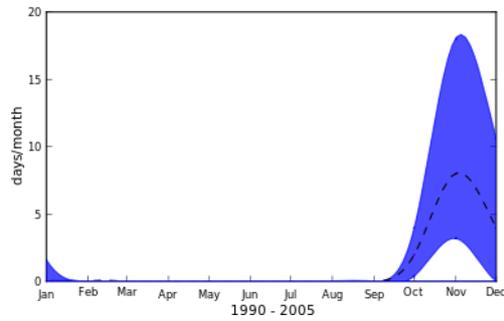


Figure A.21.11: Annual cycle days/month exceeding 34.8 deg C for SALIMA station.

### Observed seasonal heat spell length

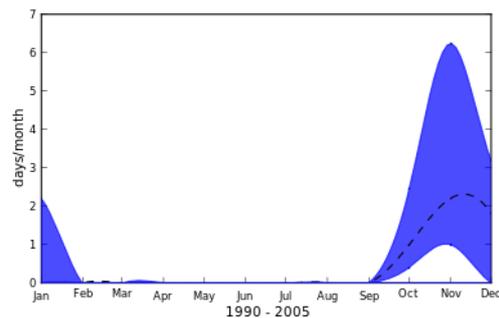


Figure A.21.12: Annual cycle of monthly mean heat spell duration (34.8 deg C) for SALIMA station.

## Observed seasonal daily minimum temperatures

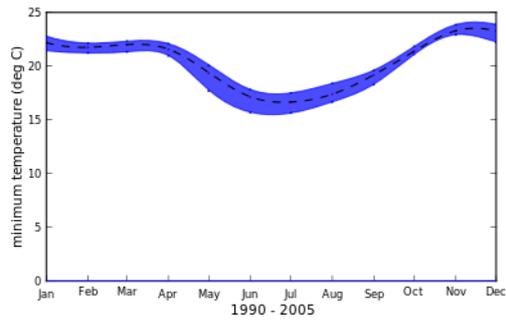


Figure A.21.13: Annual cycle of monthly mean minimum daily temperatures (deg C) for SALIMA station.

# Climate Summary Report for THYOLO

## THYOLO



Figure A.22.1: Map showing location of THYOLO observation station

## Observed climate

### Observed seasonal rainfall

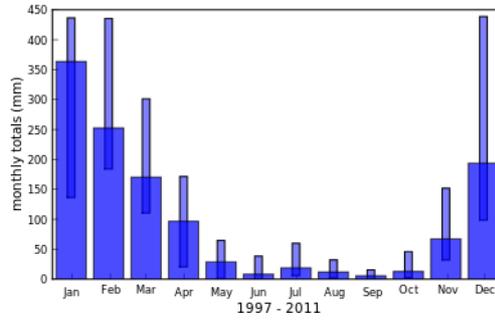


Figure A.22.2: Annual cycle of monthly rainfall (mm) for THYOLO station.

### Observed seasonal mean dry spell duration

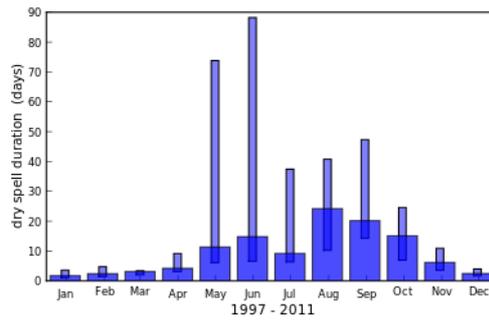


Figure A.22.3: Annual cycle of monthly mean dry spell duration for THYOLO station (> 0.3mm ).

### Observed seasonal mean dry spell duration

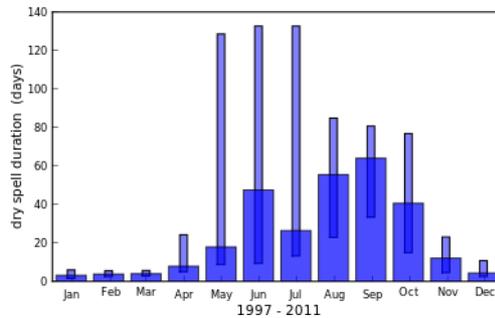


Figure A.22.4: Annual cycle of monthly mean dry spell duration for THYOLO station (> 5mm ).

### Observed monthly mean rain day frequency

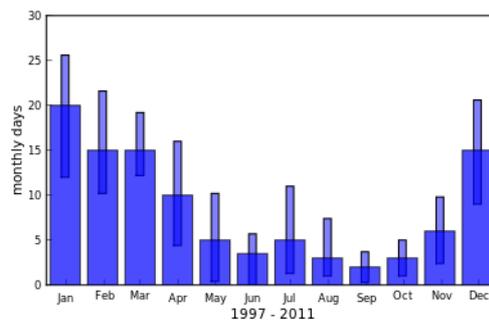


Figure A.22.5: Annual cycle of monthly rain days > 0.3 mm (days) for THYOLO station.

### Observed monthly mean rain day frequency