INTRODUCTION

The Commission for the second International Polar Year expressed the need for supplementing the observations taken in polar regions during the Polar Year of 1902–3 by special observations in other parts of the world. The daily observations and upper air observations at Bermuda are set out here in furtherance of this plan:

The position of the meteorological station at Bermuda is as follows:—

Latitude 32° 22′ N. Longitude 64° 40′ W.

Height of barometer cistern above M.S.L.: —158 ft. (48 m.).

The meteorological station is situated at Fort George on a hill 164 ft. above sea level. It is the highest point in this locality and has a free all-round exposure. The fort is sunk into the ground and is surrounded by a wide moat so that no definite meaning can be assigned to the expression "above ground level" for those instruments situated on the fort itself. The head of the Dines pressure tube anemometer is 222 ft. above M.S.L. and 40 ft. above the roof of the fort, the only object which might affect the exposure being a signal mast 24 ft. distant to the north-east.

The ground of the instrument enclosure slopes slightly from north-east to south-west. There were a row of cedar trees about 6 ft. in height and about 20 yds. distant on the north-east side of the enclosure and four cedar trees, about 8 ft. in height and 20 yds. distant from the southern corner of the enclosure during the period of these observations.

The standard type 8 in. rain-gauge stands on ground 164 ft. above M.S.L. and the height of its rim is 1 ft. 3 in. above the ground.

The sunshine recorder is exposed on the parapet of the fort at a height of 182 ft. (55 m.) with a free exposure between north-east round by south to north-west.

Upper air observations were not commenced until March 13, 1903, but by the end of August, 1903, 96 pilot balloon ascents had been made.
National Oceanic and Atmospheric Administration

Climate Database Modernization Program

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LASON
Imaging Subcontractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 28, 2002
### Meteorological Observations

**St. George's, Bermuda**

**August 1938**

#### Temperature of the Air

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#### Visibility

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#### Weather

- **0800**: 
  - **Temperature**: 70°F
  - **Humidity**: 75%
  - **Visibility**: 10 miles
  - **Remarks**: Clear

- **1000**: 
  - **Temperature**: 75°F
  - **Humidity**: 80%
  - **Visibility**: 12 miles
  - **Remarks**: Clear

- **1200**: 
  - **Temperature**: 75°F
  - **Humidity**: 85%
  - **Visibility**: 10 miles
  - **Remarks**: Clear

- **1400**: 
  - **Temperature**: 80°F
  - **Humidity**: 80%
  - **Visibility**: 8 miles
  - **Remarks**: Clear

- **1600**: 
  - **Temperature**: 85°F
  - **Humidity**: 75%
  - **Visibility**: 6 miles
  - **Remarks**: Clear

- **1800**: 
  - **Temperature**: 90°F
  - **Humidity**: 70%
  - **Visibility**: 5 miles
  - **Remarks**: Clear

- **2000**: 
  - **Temperature**: 95°F
  - **Humidity**: 65%
  - **Visibility**: 3 miles
  - **Remarks**: Clear

#### Remarks

- **1200**: Thunderstorm
- **1500**: Tornado
- **1700**: Solar eclipse partial
## Meteorological Observations

**St. George's, Bermuda**  
**August 1932**

### Wind Observations

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### Additional Observations

- **Weather Notes:**
  - Rainfall: 0.00 in
  - Snowfall: 0.00 in
  - Thunderstorms: 0.00
  - Waterproofing: 0.00

- **Rainfall Days:** 0
- **Snowfall Days:** 0
- **Thunderstorm Days:** 0
- **Waterproofing Days:** 0
- **Fog Days:** 0

- **Greatest Wind Velocity and Direction:** 25 M.P.H. from SSW
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Weather. No. of Days with:— 1:2 3:7 8:19 10:109
Rain Snow Hail Thunderstorm Waterspout b. bc. c. o. Fog.
9 0 0 0 0 0 0 0 0

Greatest Wind Velocity and Direction—75 M. S. W. W.
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**METEOROLOGICAL OBSERVATIONS ST. GEORGES, BERMUDA**

**Height of Barometer Cistern Above Sea Level 158 Feet.**

**Dates of Observations:**

- 1000: 10/03/1932
- 1200: 10/03/1932
- 1400: 10/03/1932
- 1600: 10/03/1932
- 1800: 10/03/1932
- 2000: 10/03/1932

**Hour of Observations:**

- 1000
- 1200
- 1400
- 1600
- 1800
- 2000

**Remarks:**

- 1000: Heavy thunderstorm.
- 1200: Distant lightning.
- 1400: Light thunderstorm.
- 1600: Very distinct large electric discharge.
- 1800: Large comet.
- 2000: Very large comet.

**Average Pressure for Month:**

- 1003.6 mmHg

**Max. Temperature:**

- 62°F

**Min. Temperature:**

- 61°F

**Mean Temperature:**

- 62°F

**Mean Dew Point:**

- 64°F

**Rainfall:**

- 12.5 mm

**Difference from Average:**

- 85 mm

**No. of Days Rain:**

- 20

**Greatest Daily Rain:**

- 2.0 mm
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Weather: No. of Days with:—
1-2 3-7 8-10 10/12Sr.

Rain 0 0 0 0
Snow 0 0 0 0
Hail 0 0 0 0
Thunderstorm 0 0 0 0
Waterproof 0 0 0 0

No. of Days Gale 8

Greatest Wind Velocity and Direction 35 mph N.
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Highest Reading of Barometer: 802.6 mBar
Lowest Reading: 800.0 mBar
Mean Temperature: 10°C
Max. Temperature: 12°C
Min. Temperature: 8°C
Mean Dew Point: 6°C
Rainfall: 0.0 mm
Average Atmospheric Pressure for Month: 1017.1 mBar

Moisture in the Air: 60%
## METEOROLOGICAL OBSERVATIONS ST. GEORGES, BERMUDA

### Form A 2

**November 1932**

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**Weather**

- No. of Days with rain: 5
- No. of Days with snow: 7
- No. of Days with hall: 10
- No. of Days with thunderstorm: 5
- No. of Days with waterspout: 0
- No. of Days with fog: 0

**Greatest Wind Velocity and Direction**

- 55 mph NW NW NW

- 35 mph NW NW NW

- 40 mph NW NW NW

- 30 mph NW NW NW

- 25 mph NW NW NW

- 20 mph NW NW NW

- 15 mph NW NW NW

- 10 mph NW NW NW

- 5 mph NW NW NW

- Calm NW NW NW

- Total NW NW NW

**Rain Snow Hall Thunderstorm Waterspout Fog**

- Rain: 10
- Snow: 5
- Hall: 3
- Thunderstorm: 10
- Waterspout: 0
- Fog: 0
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**Remarks**

- Temperature of the Air
- Humidity Percentage
- Visibility
- Wind Speed
- Weather

**Environmental Conditions**

- Max. Temperature: 77°F
- Min. Temperature: 59°F
- Mean Temperature: 68°F
- Mean Dew Point: 59°F

**Rainfall**

- Difference from Average: 18°C
- No. of Days Rain: 12
- Greatest Daily Rainfall: 28.9 mm

**Aerological Observations**

- Barometer Reading: 1025.0
- Wind Direction: 250°
- Wind Speed: 13 m/s
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Weather: No. of Days with:
- Rain: 1-2
- Snow: 3-7
- Hall: 8-10
- Thunderstorm: 10/10/32

Greatest Wind Velocity and Direction: 50-50 N.
## METEOROLOGICAL OBSERVATIONS ST. GEORGES, BERMUDA

**January 1933**

**Height of Barometer Cistern Above Sea Level 150 Feet.**

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### Weather Conditions

- **January 15**: S.E. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 16**: S.W. Trade, L.S. Pass.; 14:00, 19:00, S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 17**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 18**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 19**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 20**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 21**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
- **January 22**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.

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### Remarks

- **For 24 Hours from Midnight (1000 to 1000):**
  - **January 15**: S.E. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 16**: S.W. Trade, L.S. Pass.; 14:00, 19:00, S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 17**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 18**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 19**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 20**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 21**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.
  - **January 22**: S.W. Trade, L.S. Pass.; 14:00 and 19:00 S.E. Trade, S. S.S.; 22:00 S.W. Trade.

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### Additional Notes

- **Difference from Average:** 29.4 mm.
- **No. of Days Rain:** 60
- **Greatest Daily Rainfall:** 13.9 mm.
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Weather: No. of Days with: 1-2 5-7 8-10 10/10 St.
Rain Snow Hail Thunderstorm Windspout b. h. e. o. Fog.
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- 1105 Cold Front passed
- 1220 Cold Front passed
- 1330 Oclusion Passed
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- 1345 Cold Front passed
- 1400 Cold Front passed
- 1415 Cold Front passed
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Weather: No. of Days with:— 1-2 3-7 8-10 10/10 St. Rain Snow Hall Thunderstorm Waterspout b. b. c. o. Fog. 20 0 1 3 0 1 15 10 2 8
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**NOTES:**
- Highest Reading of Barometer: 1096.7 mm
- Lowest Reading of Barometer: 1095.2 mm
- Mean Temperature: °F
- Mean Dew Point: °F
- Rainfall: 0.2 mm
- Difference from Average: 0.4 mm
- No. of Days Rain: 0
- Greatest Daily Rainfall: 0.2 mm
## Meteorological Observations St. Georges, Bermuda

**March 1933**

### Wind

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### Clouds

- OBS: Observed
- 1500, 2000: Hours of Observation

### Weather

- Rain: R
- Snow: S
- Hall: H
- Thunderstorm: T
- Waterspout: W

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**Note:**
- Greatest Wind Velocity and Direction: NE - NW
- Weather. No. of Days with:—
  - 1-3: 8
  - 4-7: 9
  - 8-10: 3
  - 10/11: 8
- Rain: R
- Snow: S
- Hall: H
- Thunderstorm: T
- Waterspout: W

**Calculations:**

- 0-10: 10
- 11-13: 2
- 14: 1

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| 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9      | 10    |

**Weather:** 1-2 3-7 6-10 10/10 Bl.

**Rain Snow Hall Thunderstorm Waterspout b. c. e. o. Fag.**

**Greatest Wind Velocity and Direction 168 m.p.h. W.**
# Meteorological Observations St. Georges, Bermuda

## May 1933

### Height of Barometer
- Custom Above Sea Level 158 Feet.

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<th>Barometer 1200</th>
<th>Barometer 2000</th>
<th>Temperature of Air</th>
<th>Humidity</th>
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## Records
- Maximum Temperature: 64°<br />
- Minimum Temperature: 62°

## Weather Conditions
- Wind Speed: 12 km/h
- Rainfall: 0.4 mm

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### Notes
- Average Pressure for Month: 1017.6 mBar
- Difference from Average: 1.6 mBar
- Greatest Daily Rainfall: 10 mm
## Meteorological Observations

### St. Georges, Bermuda

#### May 1933

**Wind**

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**Weather**

- No. of Days with: 1-2: 3-7: 8-10: 10-100: 100+
- Rain: 13
- Snow: 0
- Hail: 0
- Thunderstorm: 0
- Waterspout: 0
- Fog: 0

**Greatest Wind Velocity and Direction** WSW
# Meteorological Observations St. Georges, Bermuda

**June 1933**

**Height of Barometer Cistern Above Sea Level**: 158 Feet.

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**Remarks**: For 24 hours from midnight.

**Weather**:
- 0639 Cold front passed
- 0140 Cold front passed
- 0223 Stormy Gale

**Rainfall**: 14 mm

**Diff. from Average**: 60 mm

**Max. Temperatures**

**Min. Temperatures**

**Mean Temperature**: 14°F

**Mean Dew Point**: 10°F

**No. of Days Rain**: 15
### METEOROLOGICAL OBSERVATIONS ST. GEORGES, BERMUDA

**July 1933**

Height of Barometer: Celsius Above Sea Level: 158 Feet.

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<th>Wet</th>
<th>Extremes</th>
<th>Humidity</th>
<th>Visibility</th>
<th>Rainfall</th>
<th>Remarks</th>
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### Notes:

1. Highest Reading of Barometer: 1029.9 mm
2. Lowest: 1017.7 mm
3. Average Pressure for Month: 1018.3 mm
4. Max. Temperature: 97°F
5. Min. Temperature: 69°F
6. Mean Temperature: 86°F
7. Mean Dew Point: 74°F
8. Difference from Average: 97 mm
9. No. of Days Rain: 2
10. Greatest Daily Rainfall: 104.7 mm
### Meteorological Observations

**Location:** St. George's, Bermuda  
**Date:** July 1933

#### Wind Observations
- **Direction:** W, NW, SE, SW, WNW, WSW, SSW, S, SNE, NE, E, ESE, NNE, NNW
- **Speed in MPH:** 10 to 35

#### Clouds
- **Clouds at 0800:** 1, 2, 3, 4, 5
- **Clouds at 1500:** 1, 2, 3, 4, 5
- **Clouds at 2000:** 1, 2, 3, 4, 5

#### Weather Conditions
- **Rains:** 0
- **Snow:** 0
- **Hall:** 0
- **Thunderstorms:** 0
- **Waterspout:** 0
- **Weather:** 1-2, 3-7, 8-10, 10/10

#### Summary
- **Records:** 40
- **Total Clouds:** 13
- **Total Wind:** 13
- **Total Rain:** 0
- **Total Snow:** 0
- **Total Hall:** 0
- **Total Thunderstorms:** 0
- **Total Waterspout:** 0

#### Greatest Wind Velocity and Direction
- **Wind Velocity:** 50 MPH
- **Direction:** NE

---

**Notes:**
- Hours of Observations: 0800, 1500, 2000
- Averages and Totals
- Calm: 0
- Total: 0
- Rain: 0
- Snow: 0
- Hall: 0
- Thunderstorms: 0
- Waterspout: 0
- Weather: 1-2, 3-7, 8-10, 10/10

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### Meteorological Observations

**St. Georges, Bermuda**

**August 1933**

**Height of Barometer Cistern Above Sea Level: 150 Feet**

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**Observations:**

- **Max. Temperature:**
- **Min. Temperature:**
- **Mean Temperature:**
- **Max. A.M.:**
- **Min. A.M.:**
- **Max. P.M.:**
- **Min. P.M.:**
- **Date:**
- **Hourly Maximum 150 Feet:**
- **Mean Weekly Temperature:**
- **Visibility:**
- **Remarks:**

**Units:**

- **Max. Temperature:** °F
- **Min. Temperature:** °F
- **Mean Temperature:** °F
- **Max. A.M.:** °F
- **Min. A.M.:** °F
- **Max. P.M.:** °F
- **Min. P.M.:** °F
- **Date:**
- **Hourly Maximum 150 Feet:**
- **Mean Weekly Temperature:**
- **Visibility:**
- **Remarks:**

**Additional Observations:**

- **Rainfall:**
- **Difference from Average:**
- **No. of Days Rain:**
- **Greatest Daily Rainfall:**
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**Weather**: No. of Days with: 1-3 5-7 8-10 10/10 S.

**Main**: Snow  Hall  Thunderstorm  Waterspout

b. be. c. o. Fog.
# Results of Pilot Balloon Observations at St. George, Bermuda

- **Height of station above sea level:** 25 meters
- **Latitude:** 32° 30' N
- **Longitude:** 64° 30' W
- Time: Greenwich Mean Time is used throughout. Sunlight time is given in brackets for March, April, and May.
- **D. Direction:** Wind direction is expressed in degrees from North (0°) through East (90°), South (180°), and West (270°).
- **V. Velocity:** is expressed in miles per second.

Pilot Balloon observations were not commenced until March 1833.

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|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Date and Hour | 0  | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| July 1st | 13.65 | 228 | 4 | 325 | 5 | 870 | 4 | 855 | 5 | 871 | 5 | 877 | 5 | 867 | 5 | 857 | 5 | 867 | 5 | 877 | 5 | 877 | 5 |
| July 2nd | 14.92 | 216 | 7 | 304 | 10 | 826 | 10 | 827 | 10 | 825 | 10 | 824 | 10 | 827 | 10 | 827 | 10 | 827 | 10 | 827 | 10 |
| July 3rd | 15.31 | 193 | 12 | 305 | 12 | 825 | 12 | 823 | 12 | 825 | 12 | 823 | 12 | 825 | 12 | 825 | 12 | 825 | 12 | 823 | 12 |
| July 4th | 16.48 | 177 | 9 | 300 | 9 | 821 | 9 | 821 | 9 | 821 | 9 | 821 | 9 | 821 | 9 | 821 | 9 | 821 | 9 | 821 | 9 |
| August 1st | 14.50 | 196 | 6 | 325 | 6 | 870 | 6 | 870 | 6 | 870 | 6 | 870 | 6 | 870 | 6 | 870 | 6 | 870 | 6 |
| August 2nd | 13.30 | 219 | 9 | 325 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 |
| August 3rd | 13.50 | 218 | 9 | 325 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 |
| August 4th | 13.30 | 218 | 9 | 325 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 | 870 | 9 |
| August 5th | 13.30 | 218 | 9 | 325 | 9 | 870 | 9 | 870 | 9 |
| August 6th | 13.30 | 218 | 9 | 325 | 9 | 870 | 9 |
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