

CHARA Array
Weather, Seeing, and
Queue Status

Nils Turner

Weather Data - Condition Statistics

2006

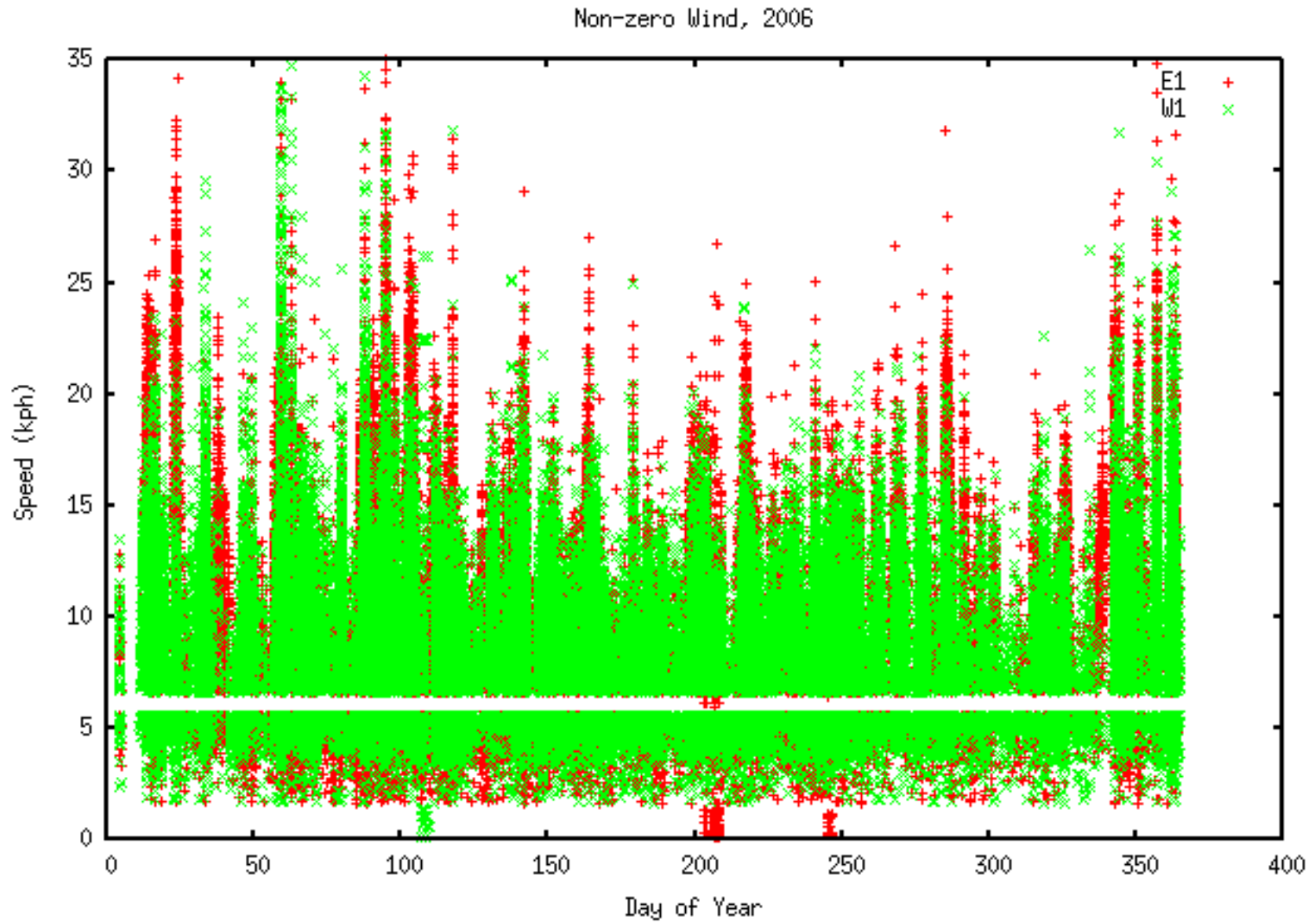
Bunker	Measurable Wind	High Wind [†]	High Humidity
S1	1.9%	0.1%	17.2%
S2	3.1%	0.1%	16.3%
E1	14.0%	0.4%	18.1%
E2	6.6%	0%	N/A
W1	8.7%	0.2%	N/A
W2	3.7%	0%	N/A

2005

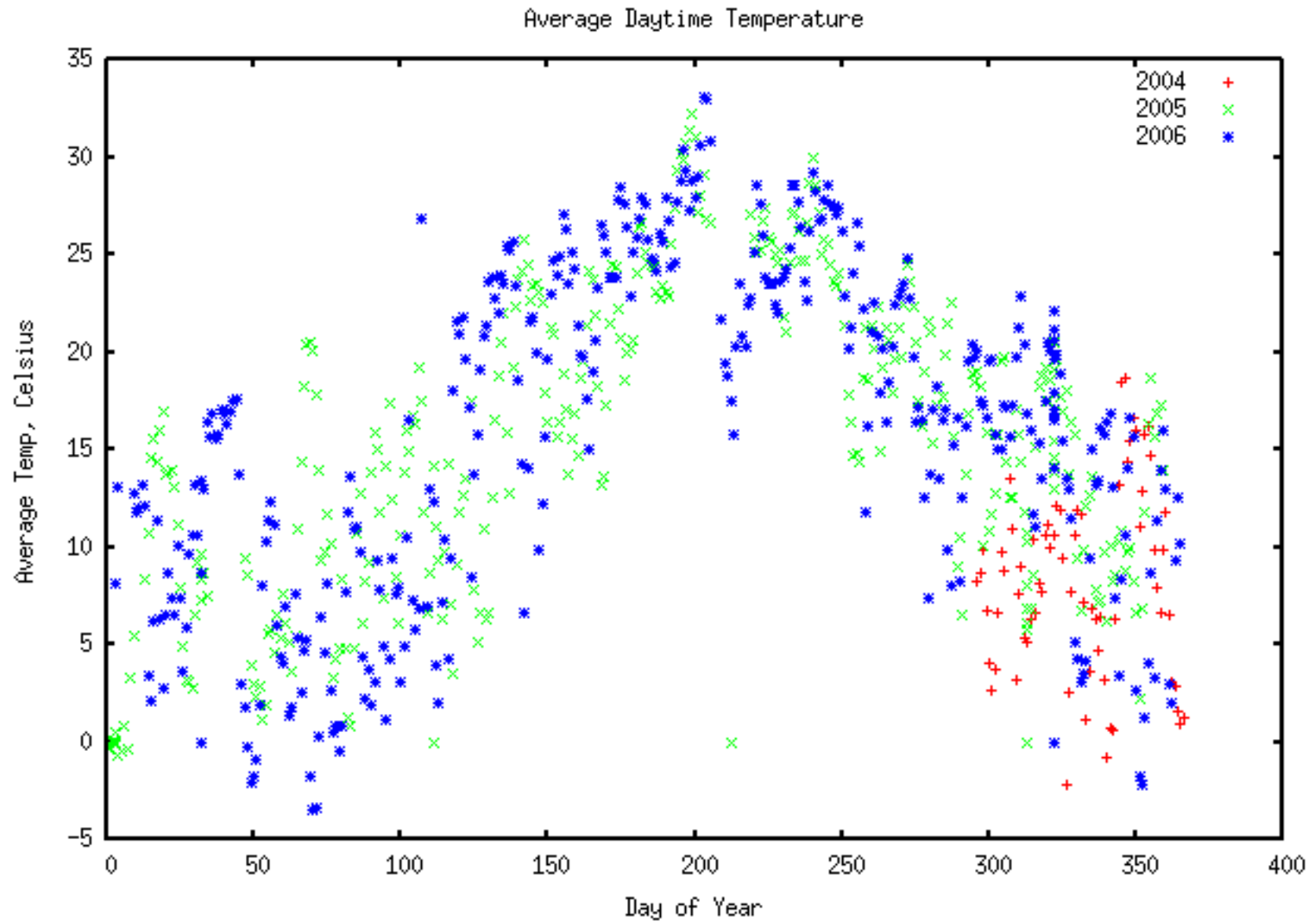
Bunker	Measurable Wind	High Wind [†]	High Humidity
S1	5.5%	0.7%	16.2%
S2	4.2%	0.1%	16.5%
E1	11.0%	0.6%	20.9%
E2	8.0%	0.1%	N/A
W1	9.2%	0.2%	N/A
W2	4.2%	0%	N/A

Table 1: Percentages indicate percentage of time. † High wind is defined as being above 20 kph.

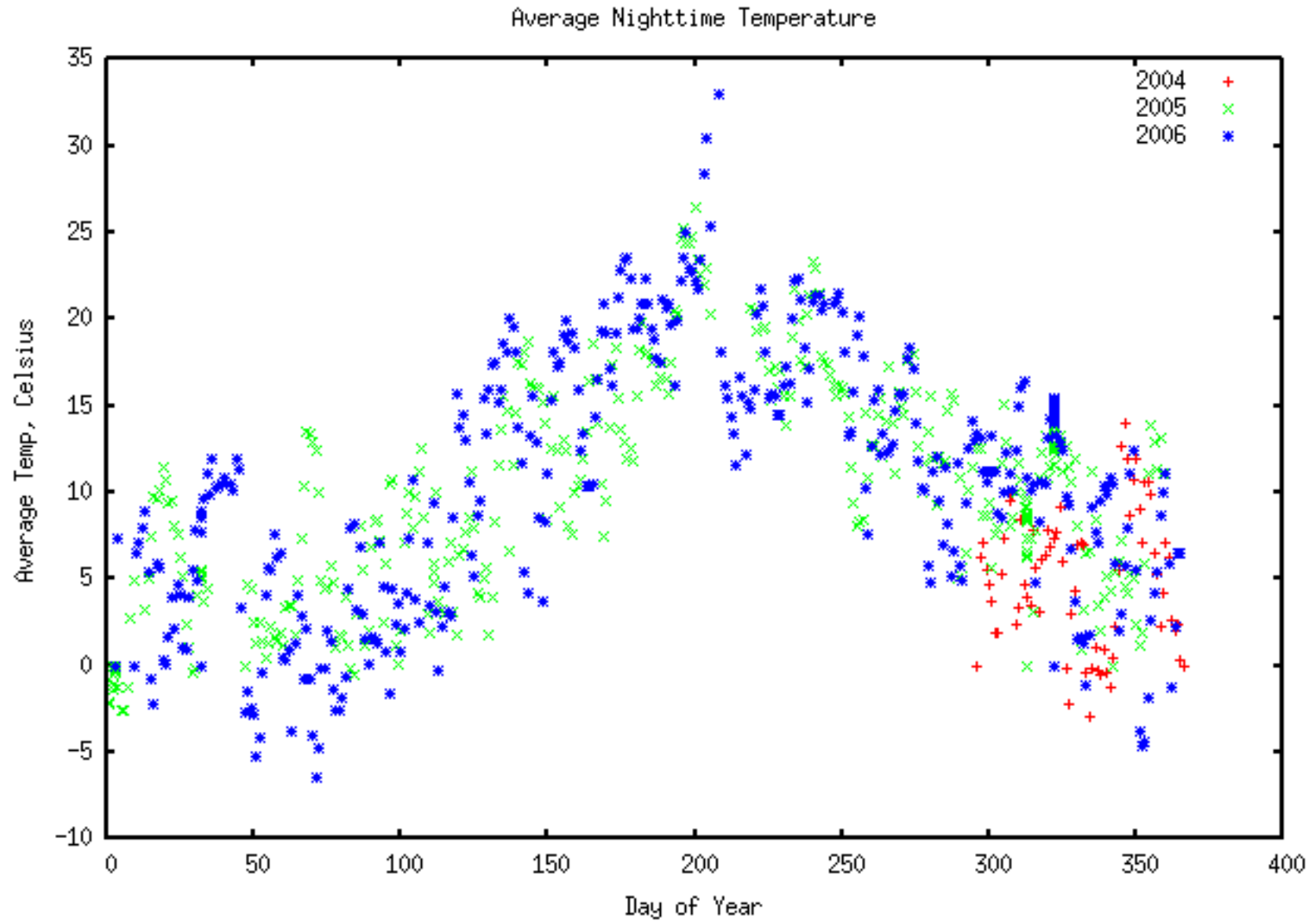
Weather Data



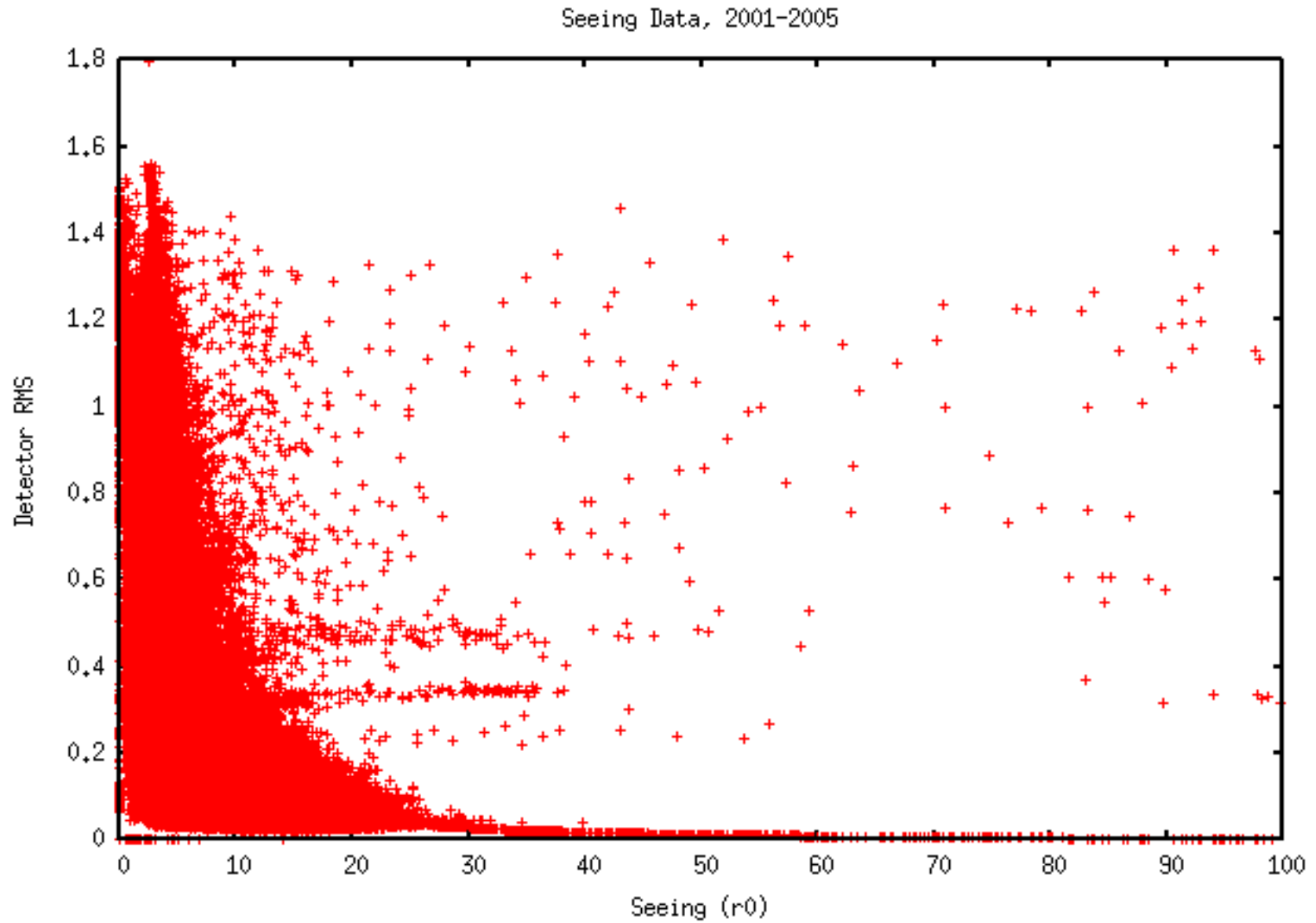
Weather Data



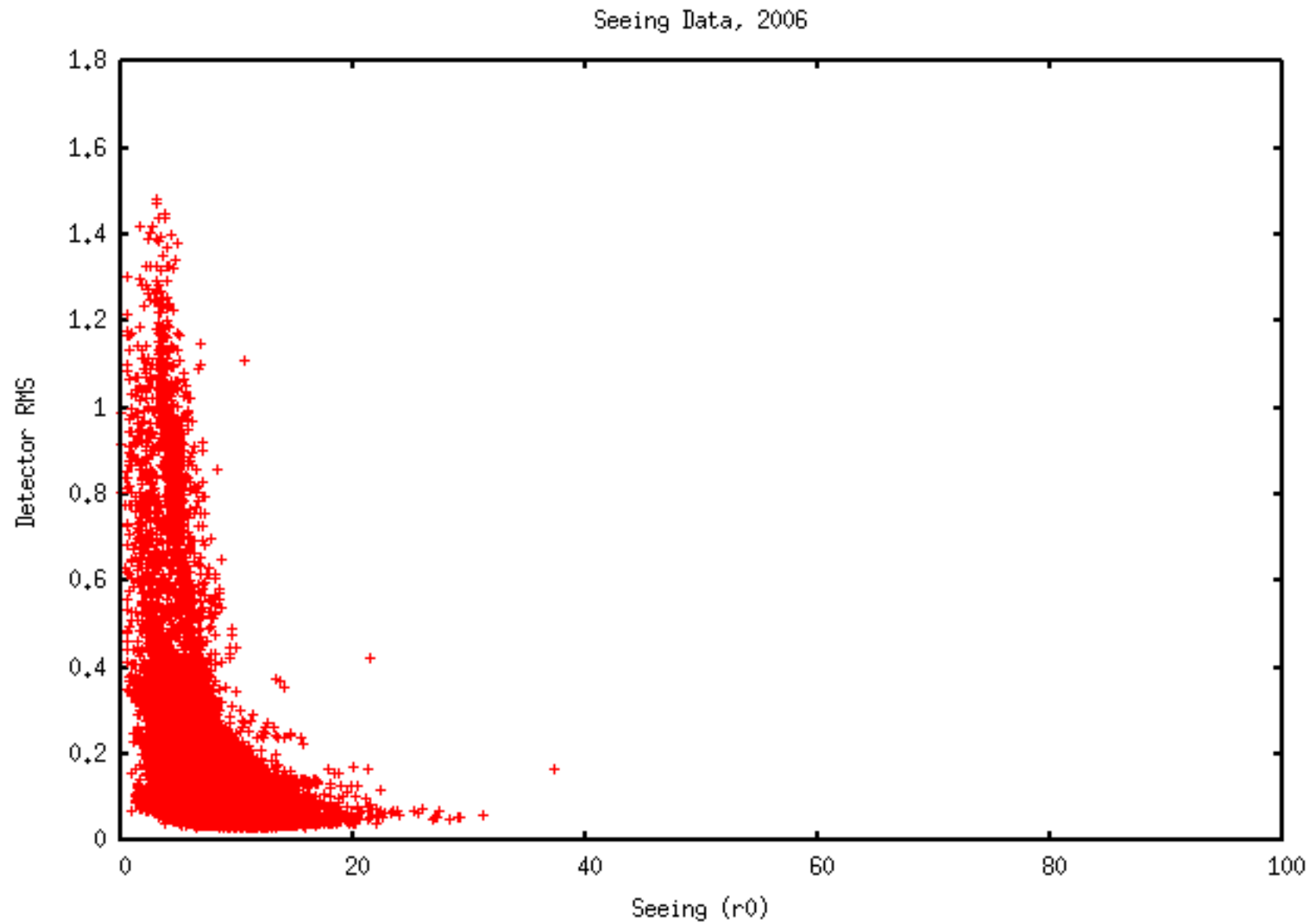
Weather Data



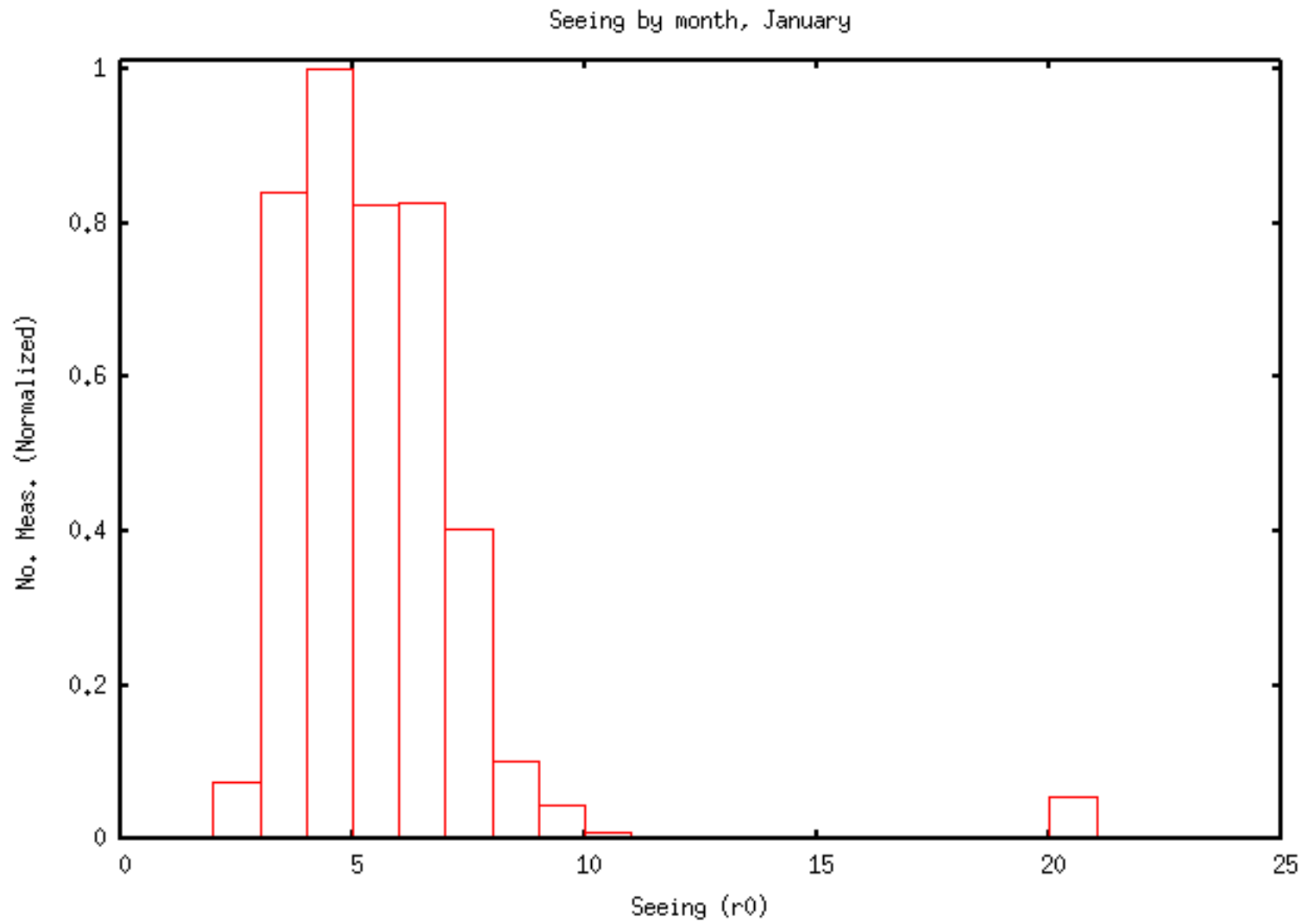
Seeing Data



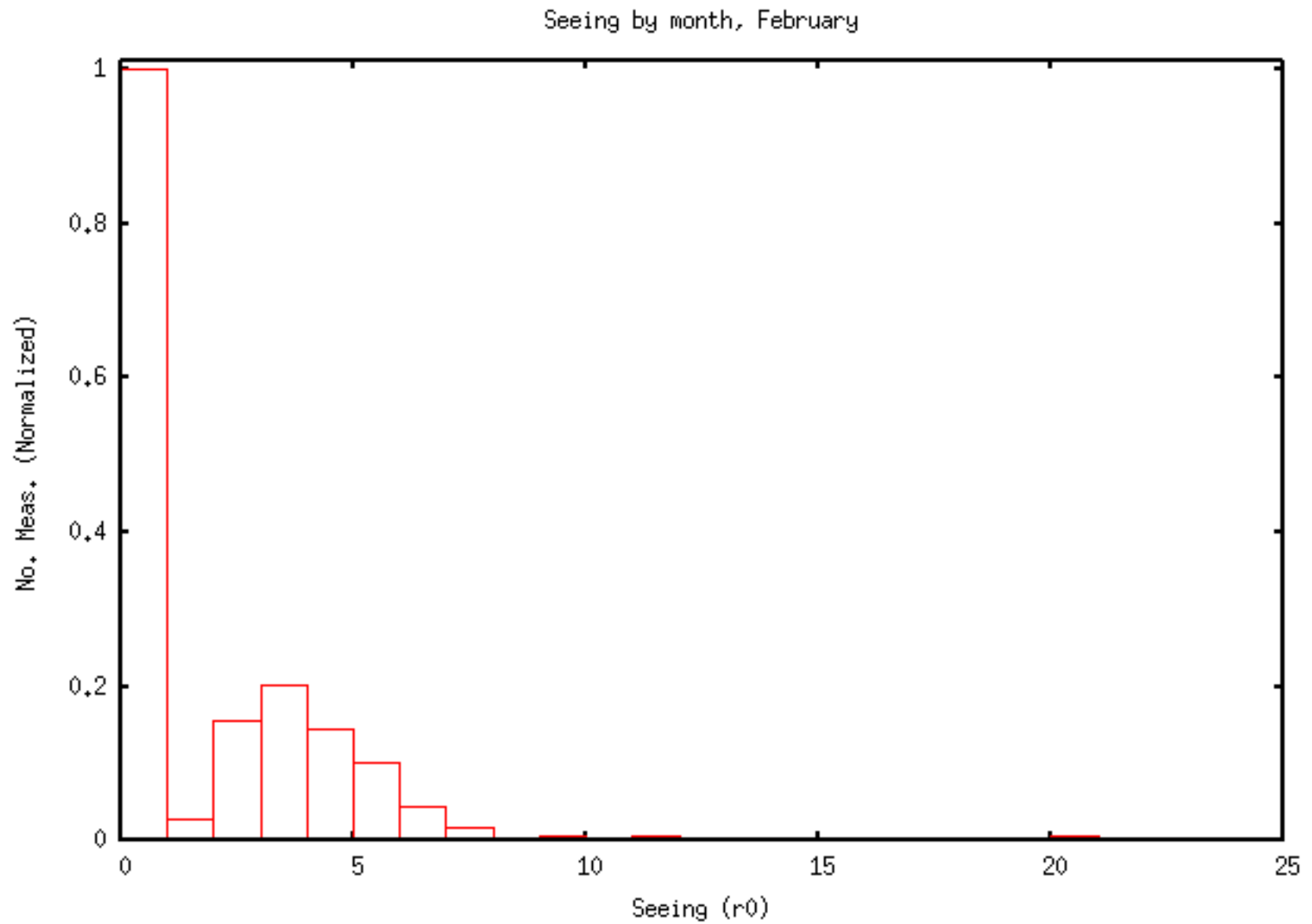
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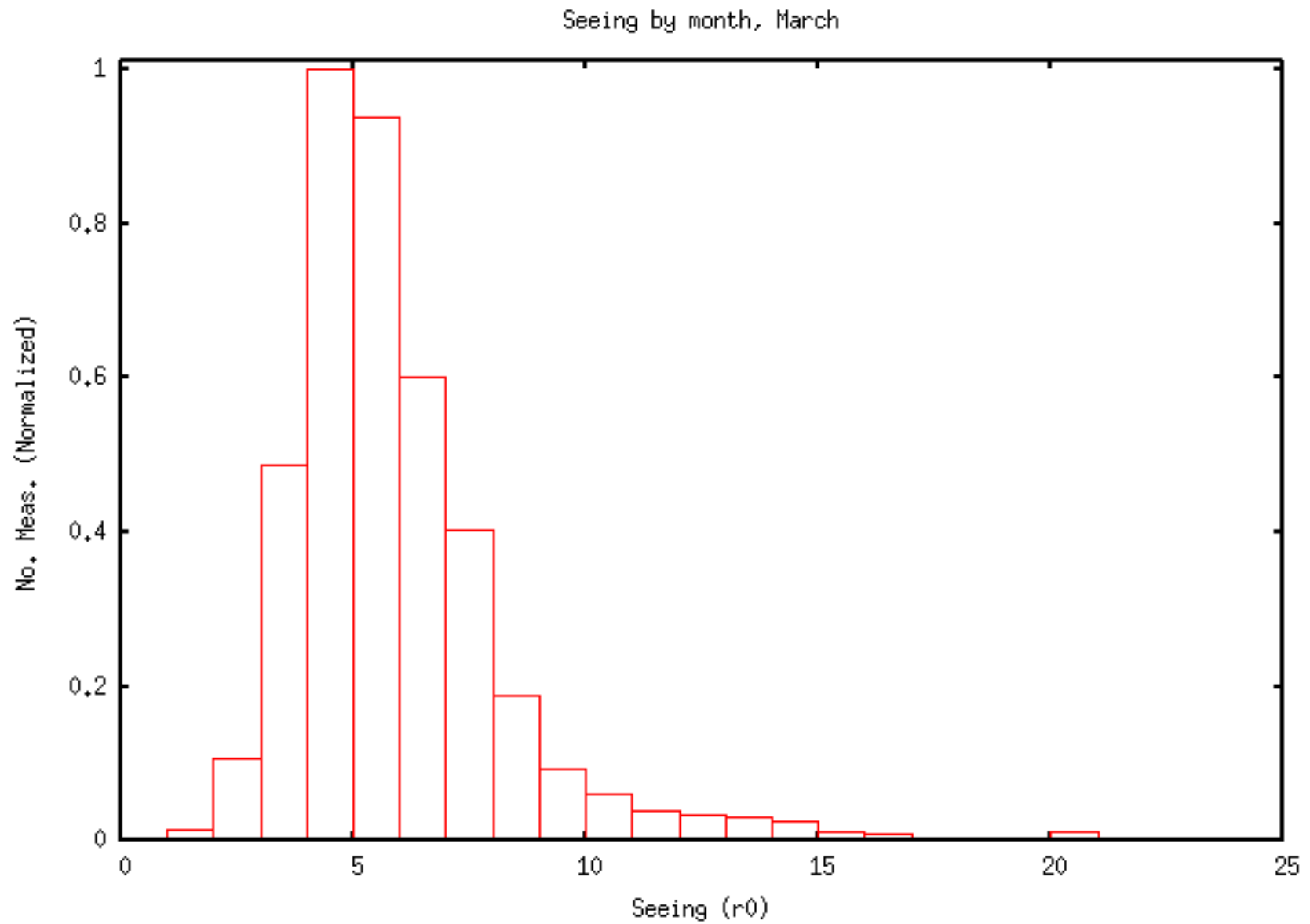
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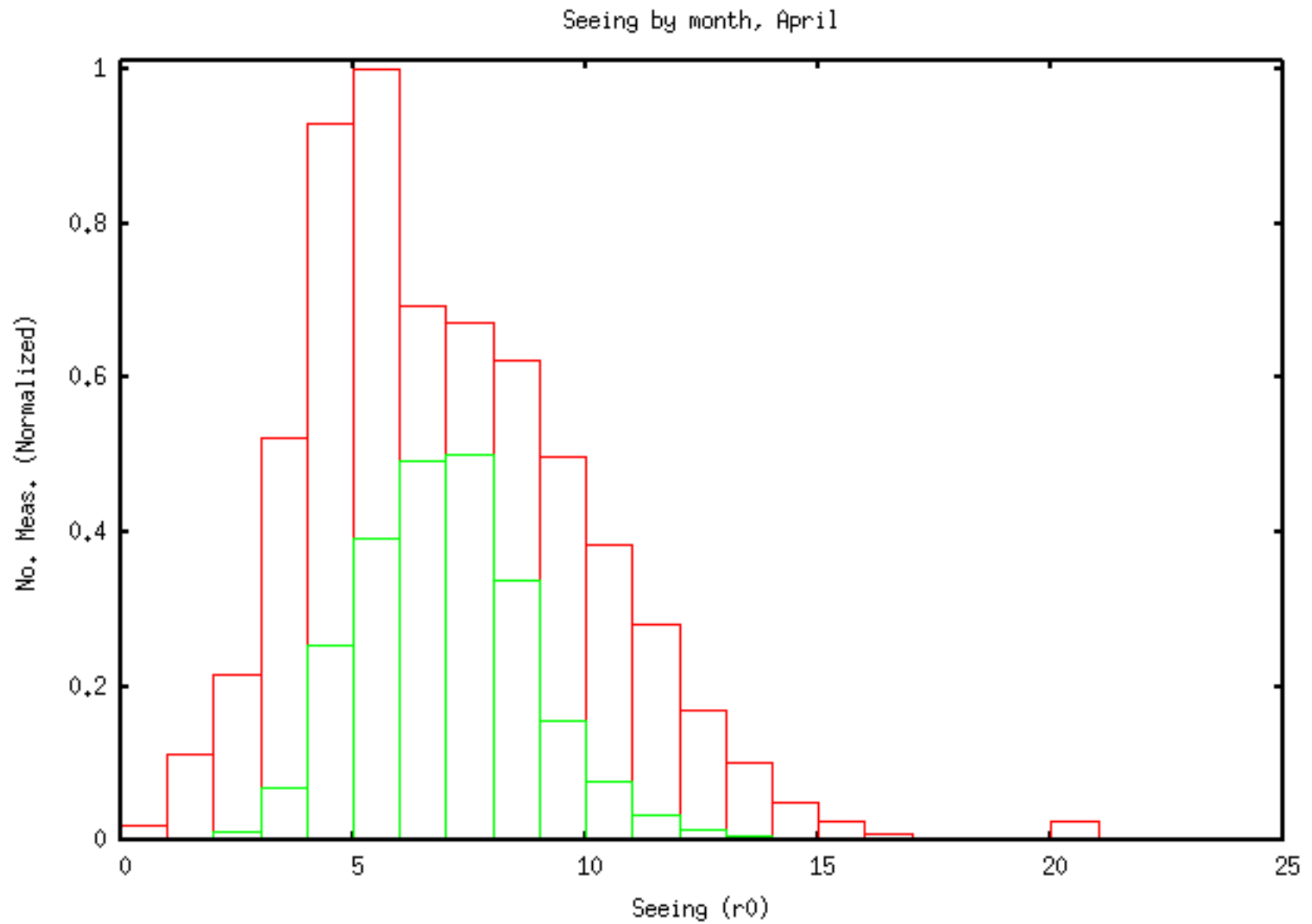
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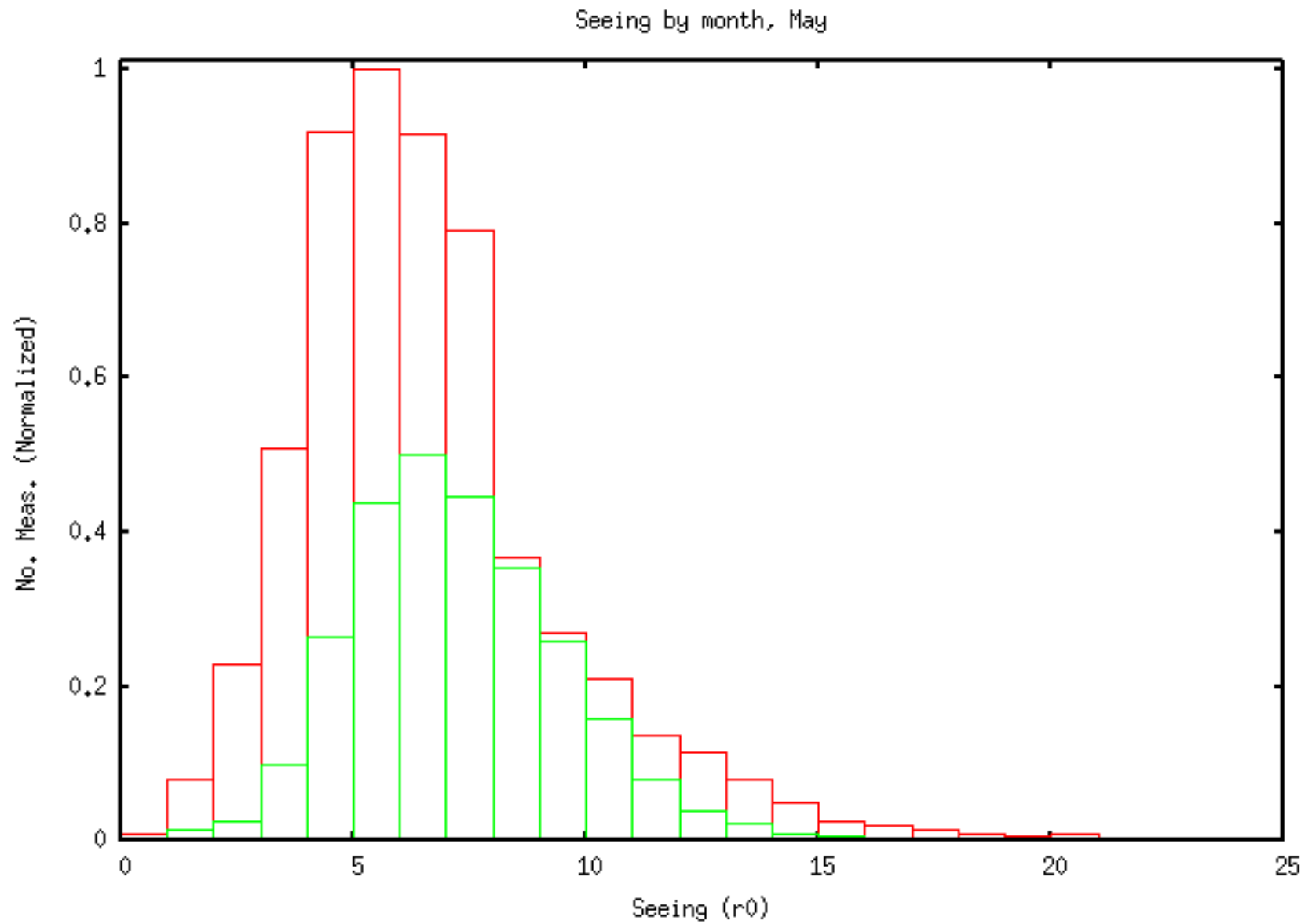
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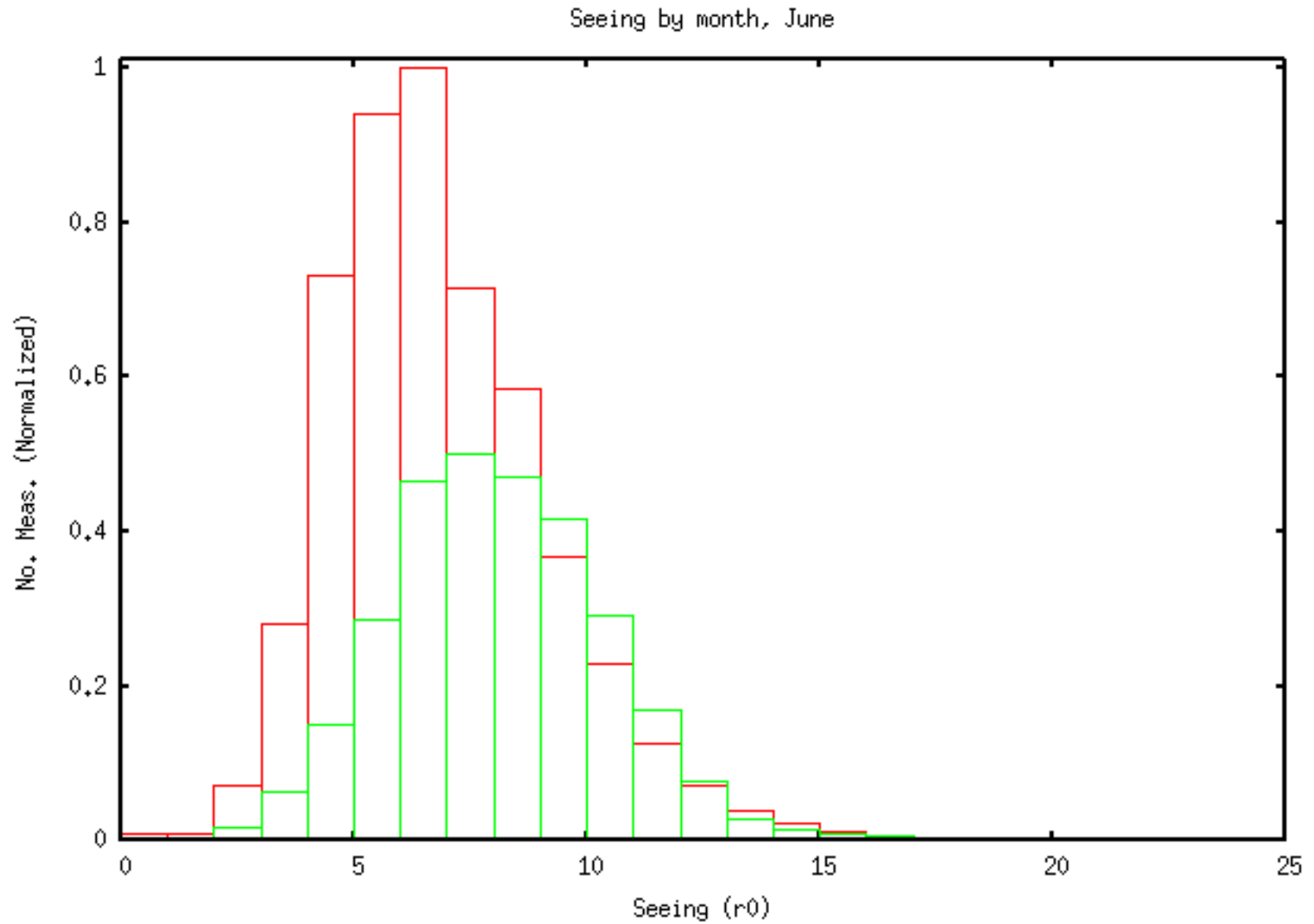
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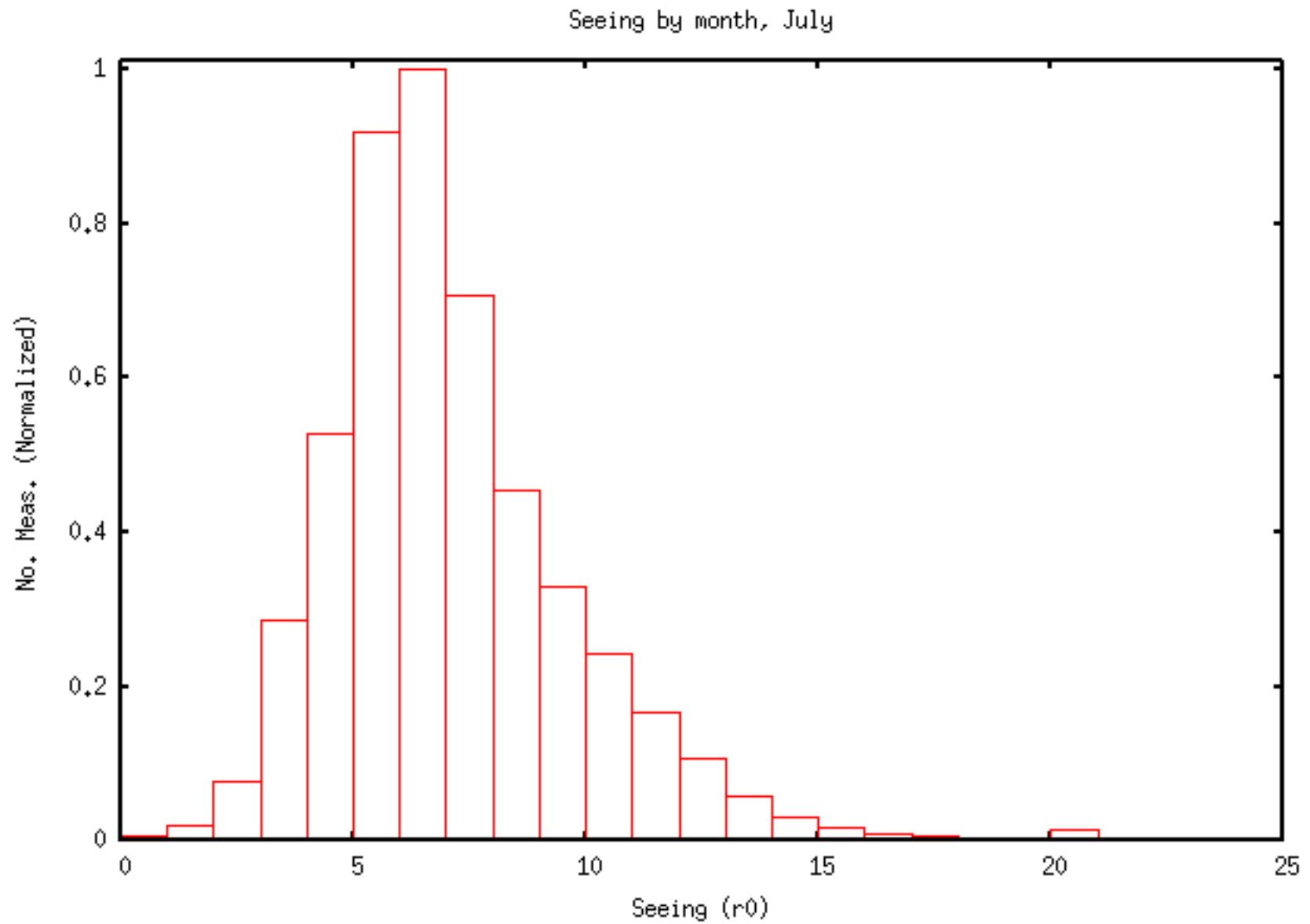
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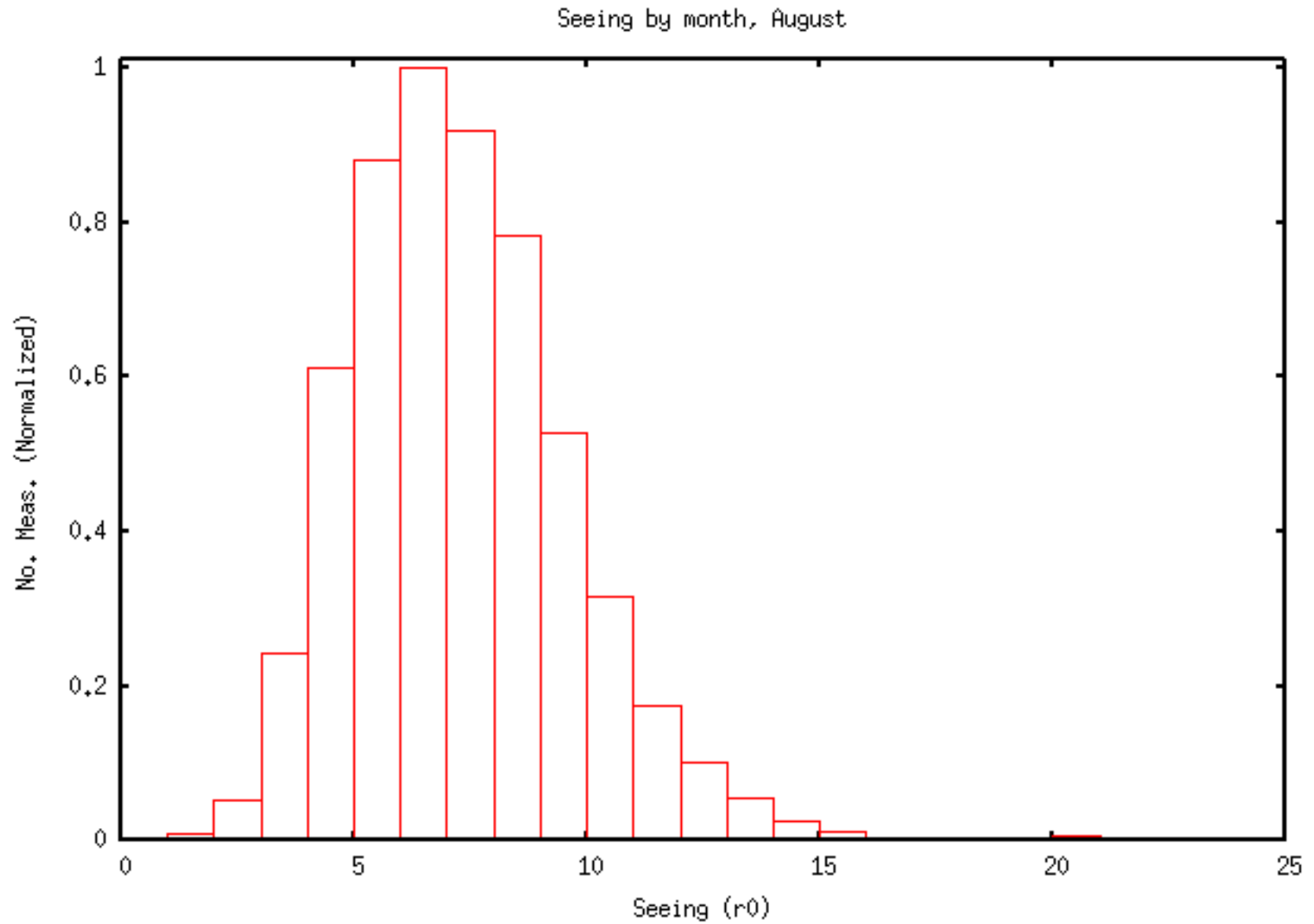
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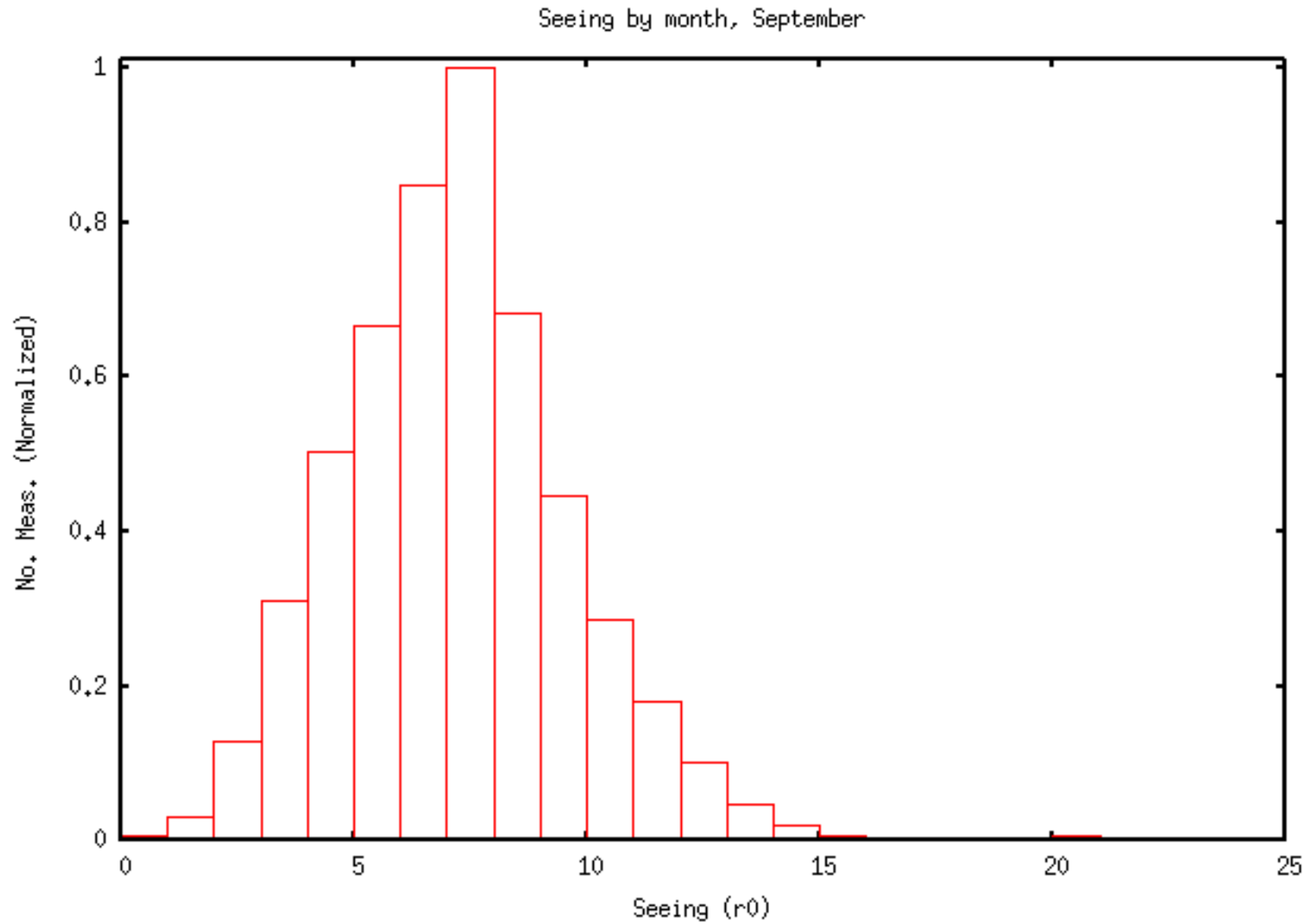
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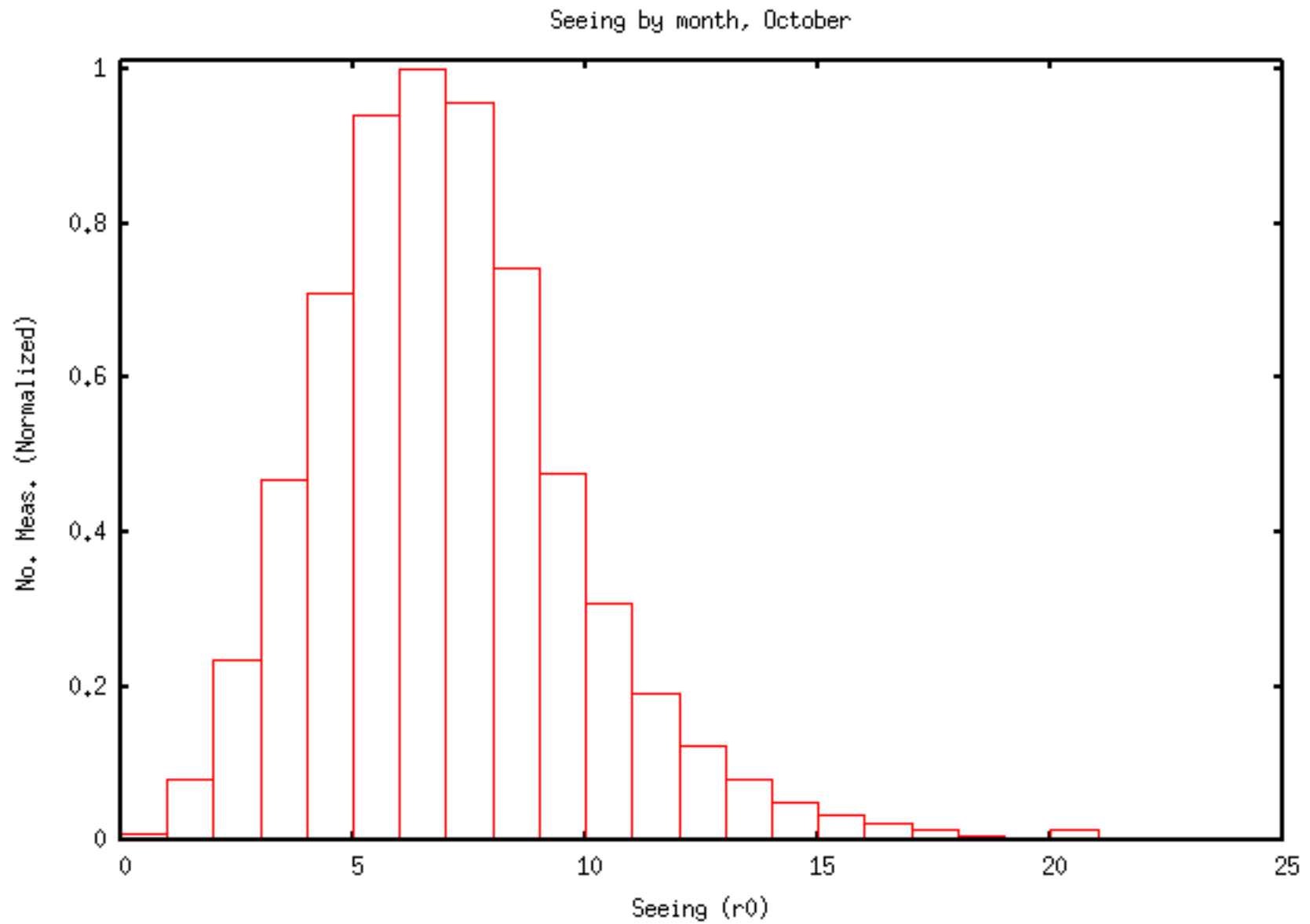
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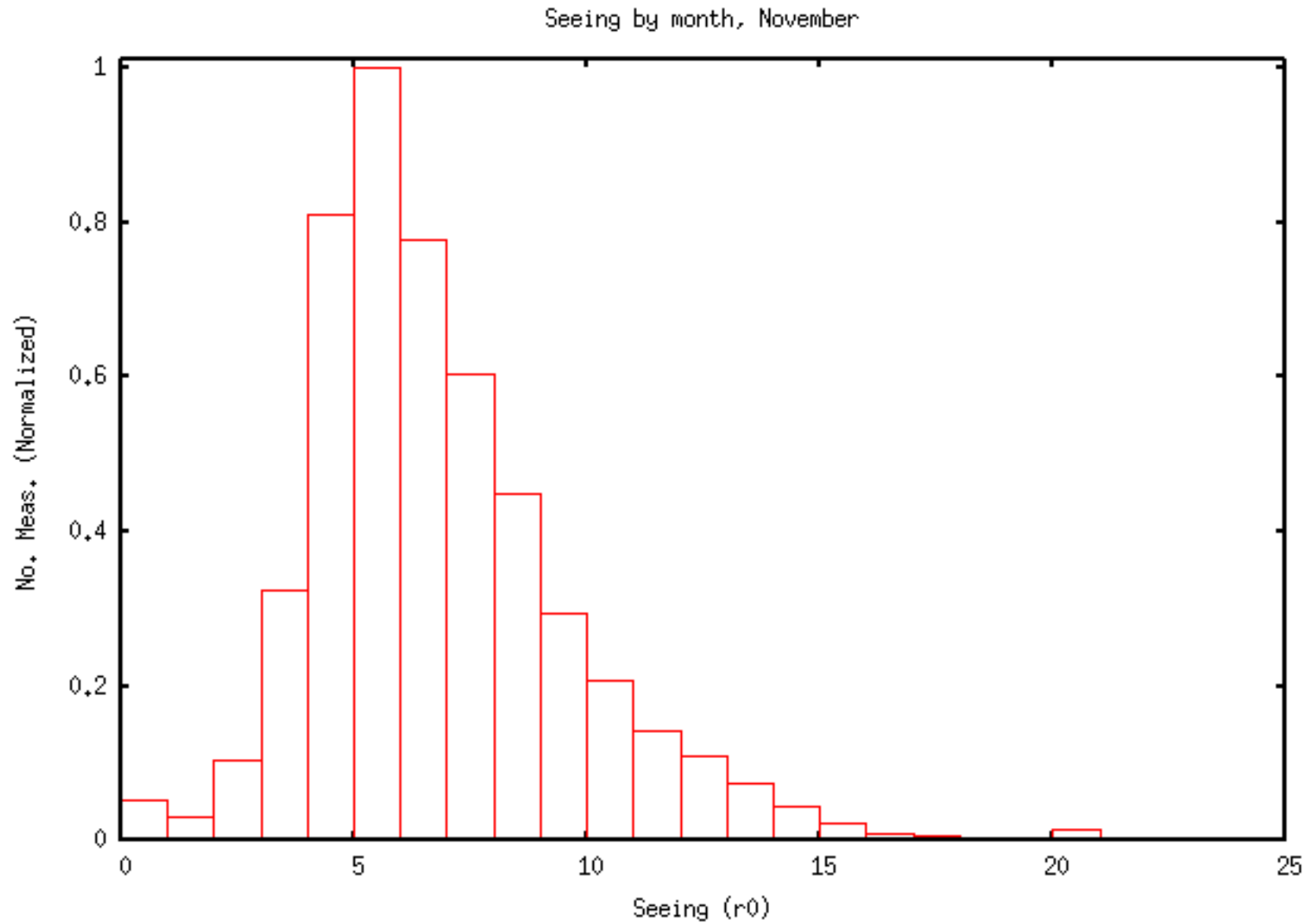
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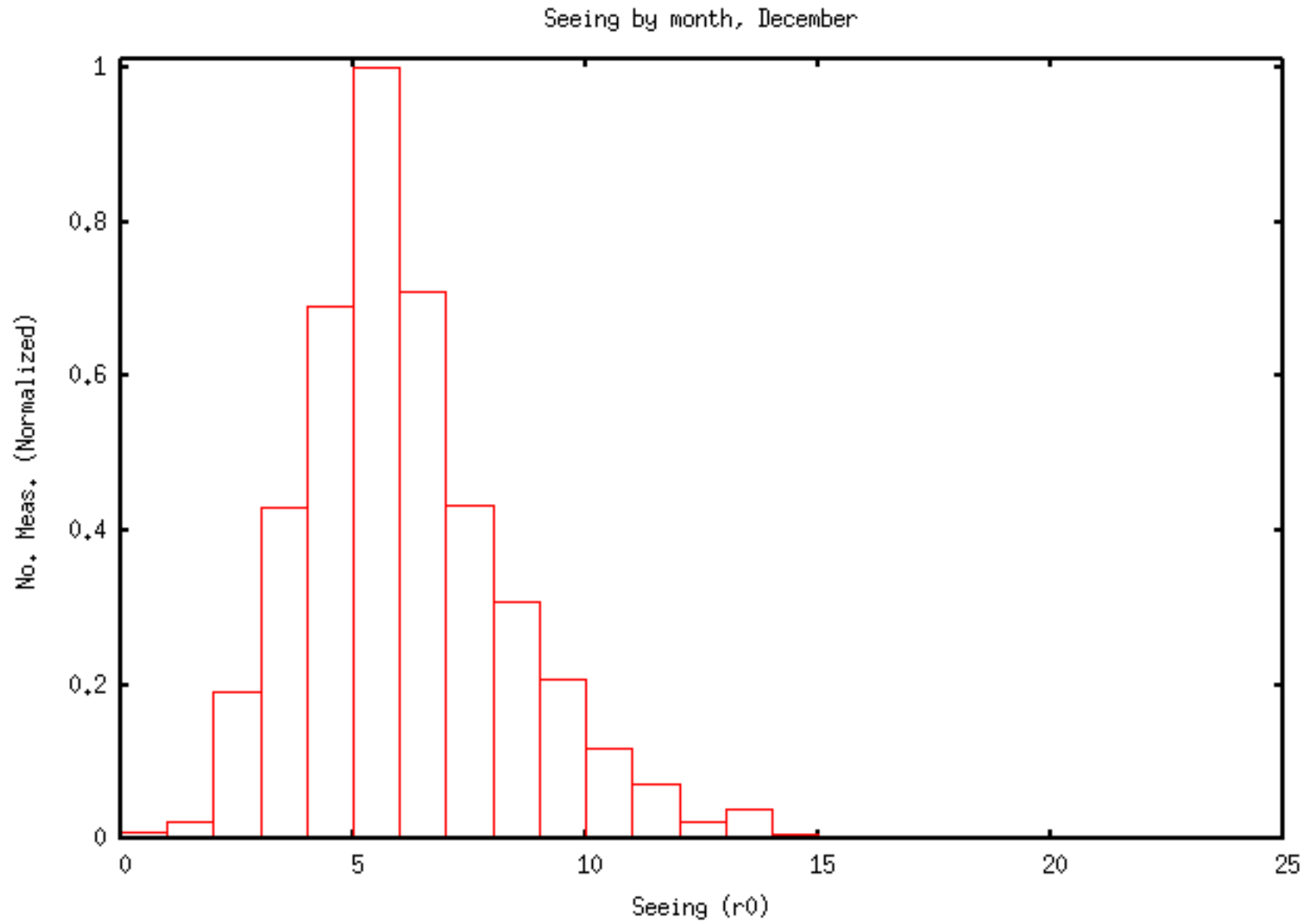
Seeing Data



Seeing Data



Seeing Data



Queue Status

Projects Supported by the Queue, 2006

- Wide Binary Astrometry with the CHARA Array (Bagnuolo)
- The Evolutionary Status of Lambda-Boo Stars (Ciardi)
- Observations of Double-Lined Spectroscopic Binaries with the CHARA Array (McAlister)
- Self-Calibrating Triple Star Systems (O'Brien)
- CHARA 96 (ten Brummelaar)
- O Star Observations (Turner)
- Unconfirmed Speckle Binaries (Mason1)
- Orbit Improvement Binaries (Mason2)
- HD 189733, Planet Transit (Baines)

Queue Status

Granted 36 full nights and 12 partial nights in 2006

- 20 full nights were lost to bad weather (high humidity, wind, or snow)
- 3 full nights were lost to falling ash
- 1 full night was lost to bad seeing
- 1 full night was lost to the needs of the FTS experiment
- 1 partial night was lost to the needs of FLUOR
- 1 partial night was lost to the needs of the Dwarf project
- 1 partial night was lost to the needs of the Exoplanet search project
- 3 partial nights were lost due to the failure of NICMOS

This left 11 full nights and 6 partial nights of data collected for the Queue.

Queue Status

Project PI	Data Scans	Percentage of Time
Bagnuolo	23 [†]	6%
Ciardi	9	4%
McAlister	52	21%
O'Brien	92 [†]	17%
ten Brummelaar	64	11%
Turner	41	17%
Mason1	36	6%
Mason2	0	0%
Baines	44	18%

Table 2: Percentage of time allocated to each project.

[†] Bagnuolo and O'Brien have three objects in common, amounting to 25 scans.

Miscellaneous



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