F. A. TONDORF.

JOHNS HOPKINS UNIVERSITY.

North Limb

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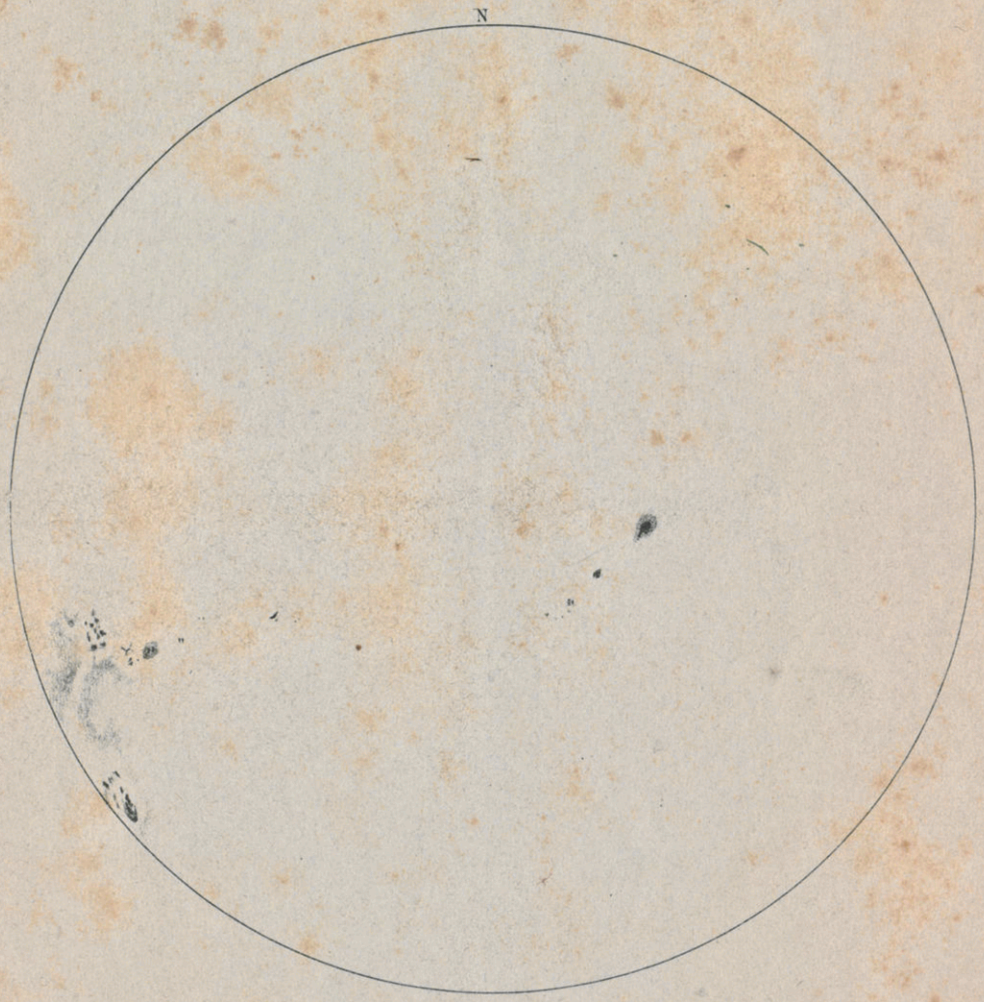
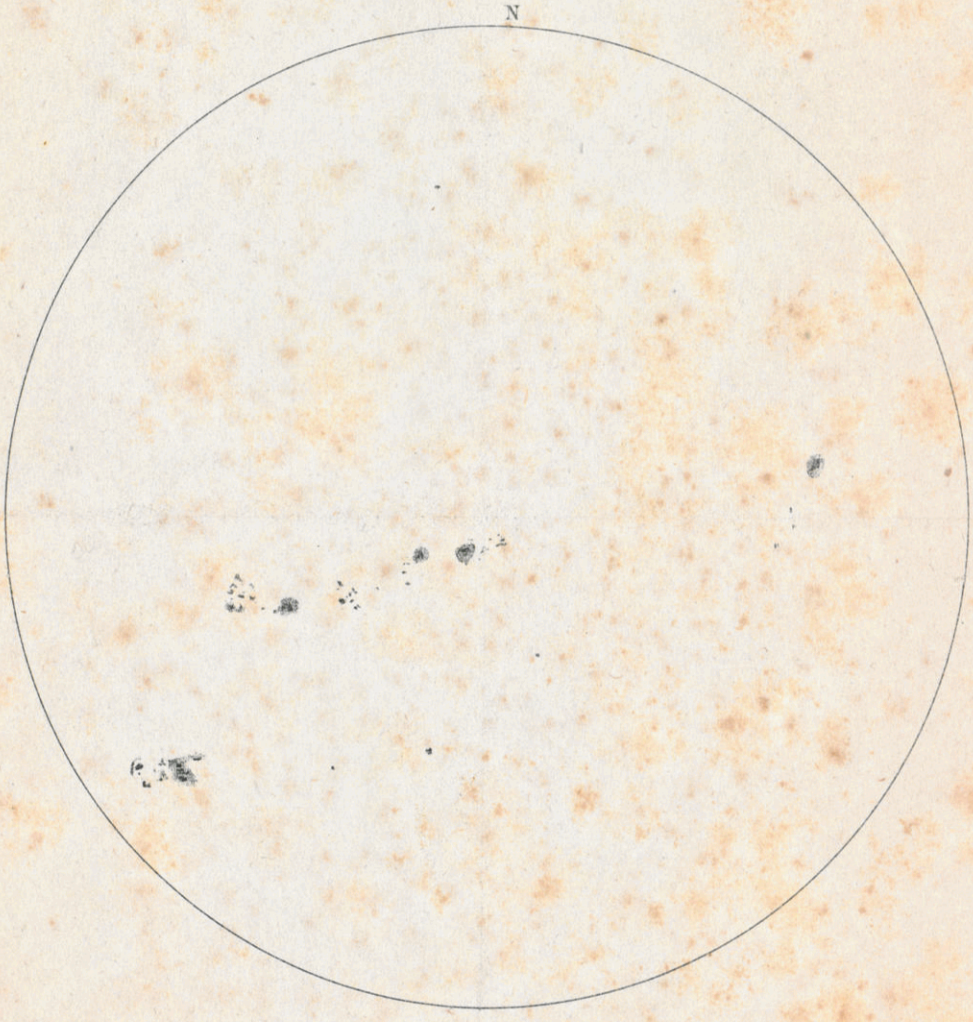
Sept. 19th 1850

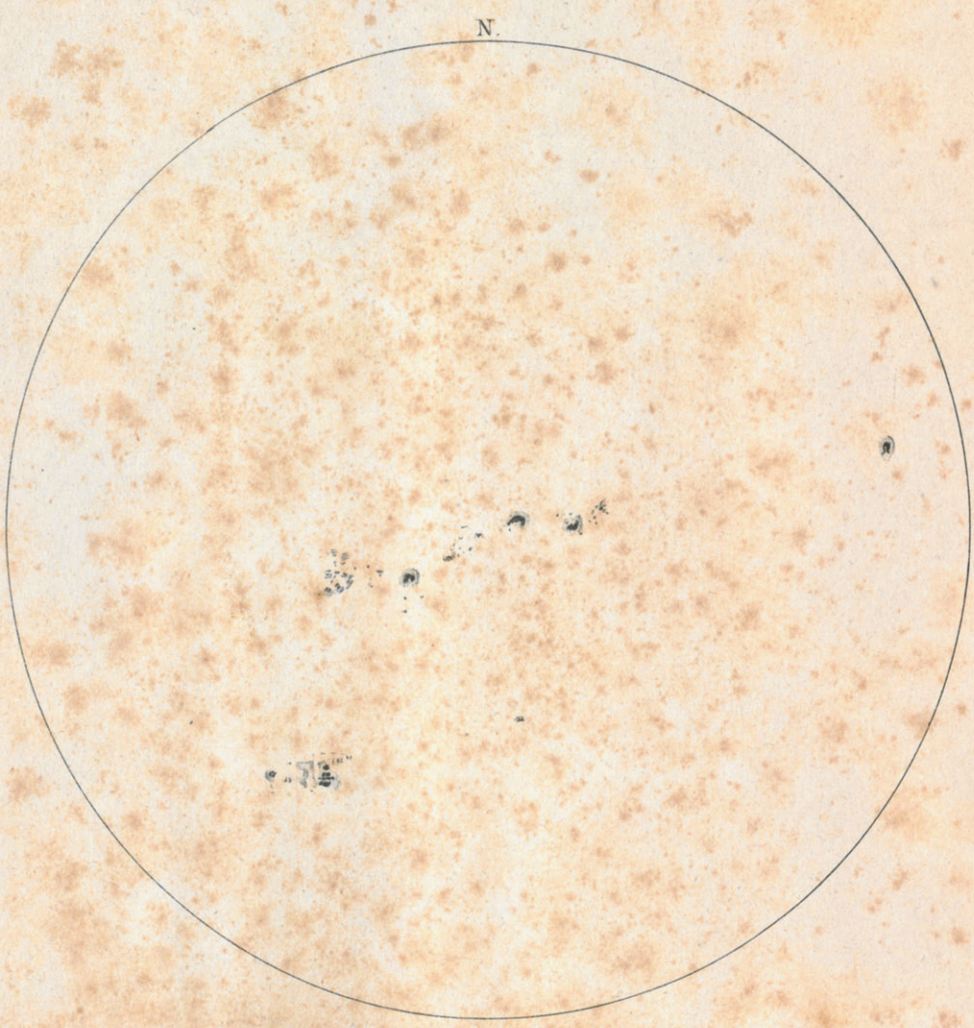


Sept. 20th

Sept. 21st



Sept. 22nd.



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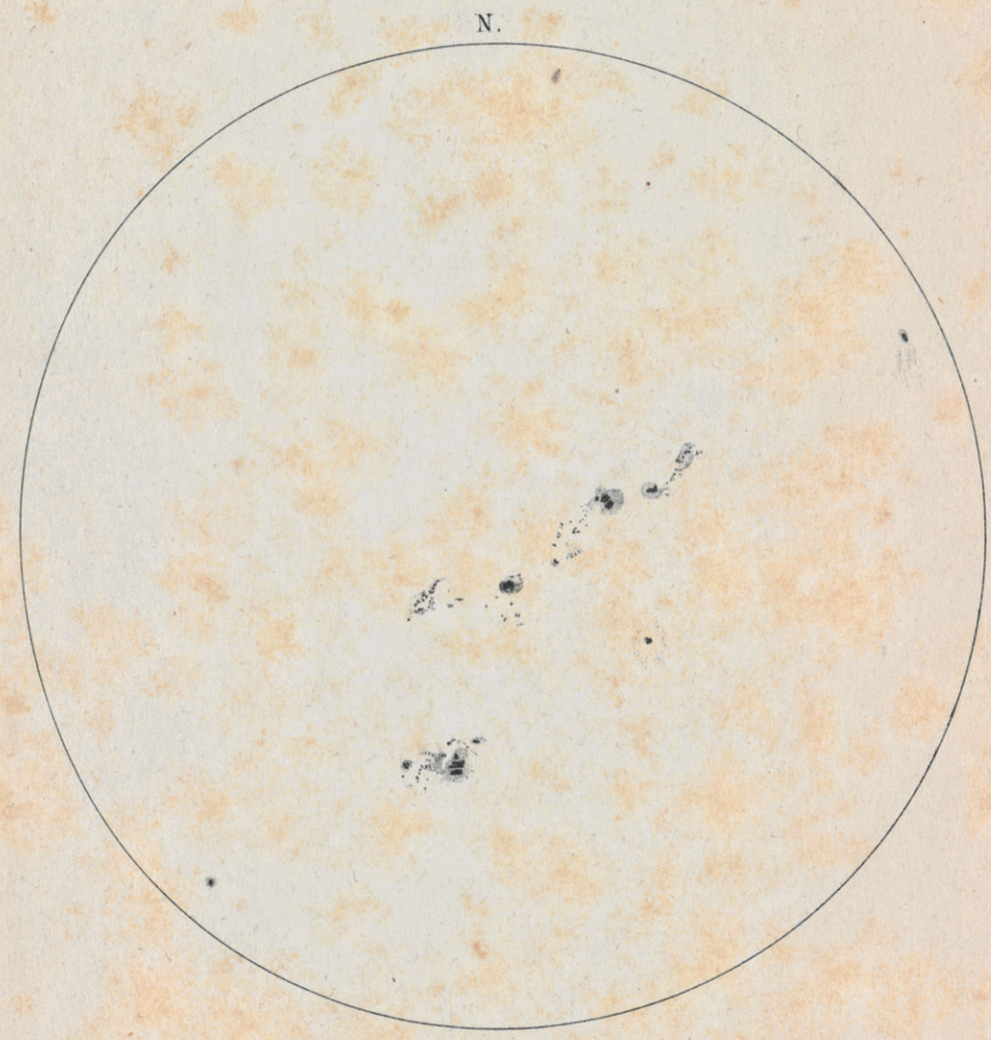

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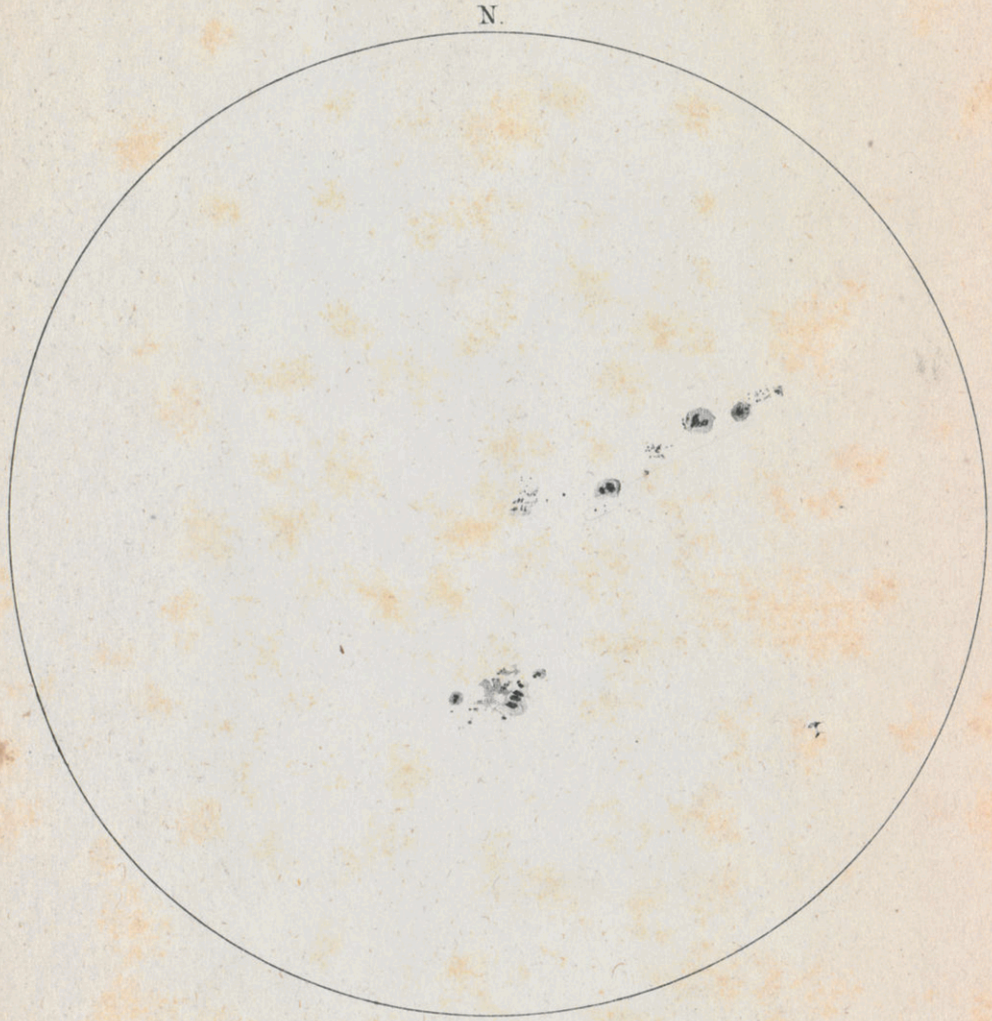
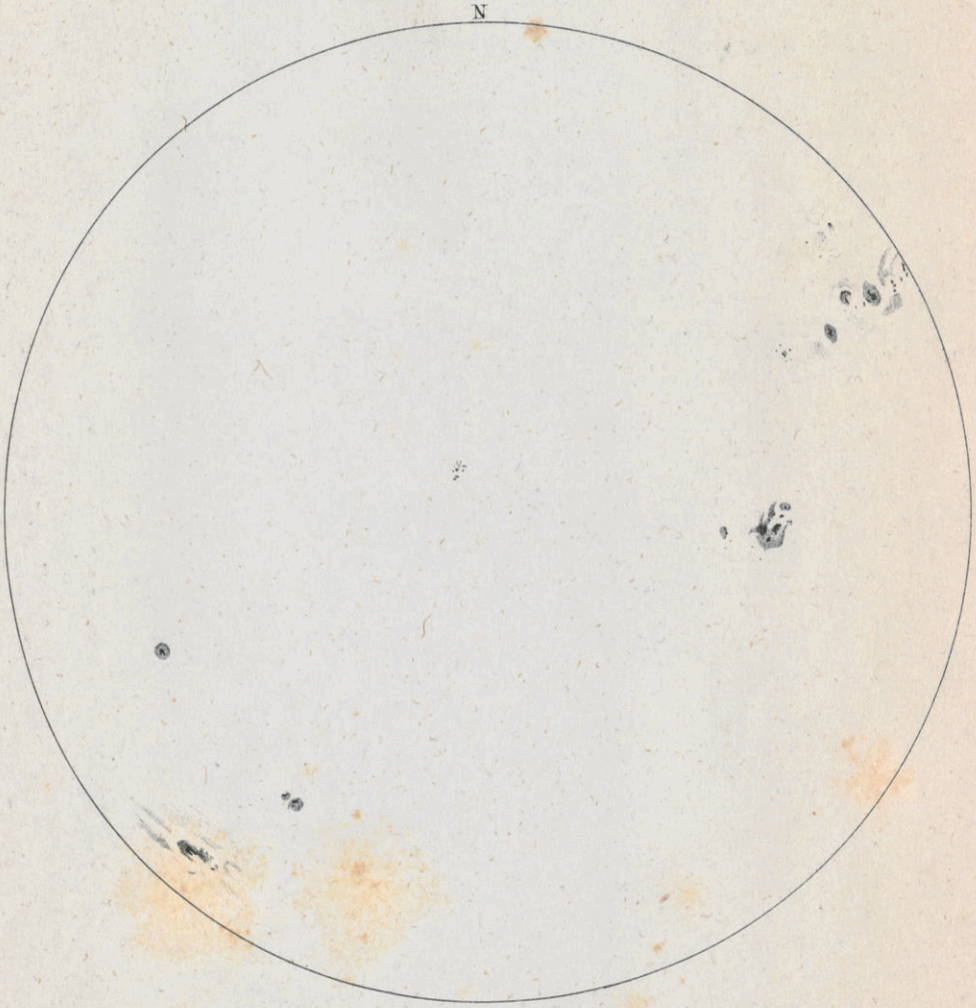


Sept. 25th

Sept. 26th

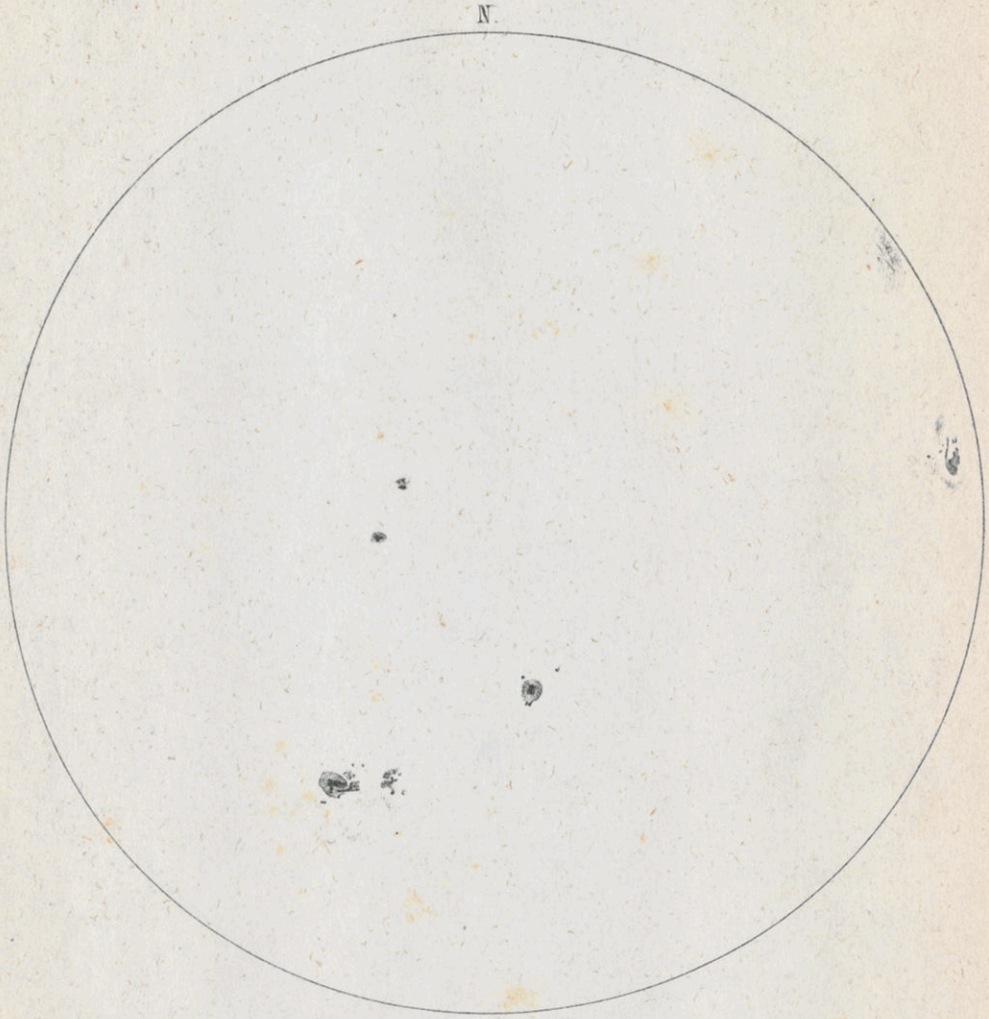
Sept. 27th



Sept. 28th

Sept. 29th

Sept. 30th



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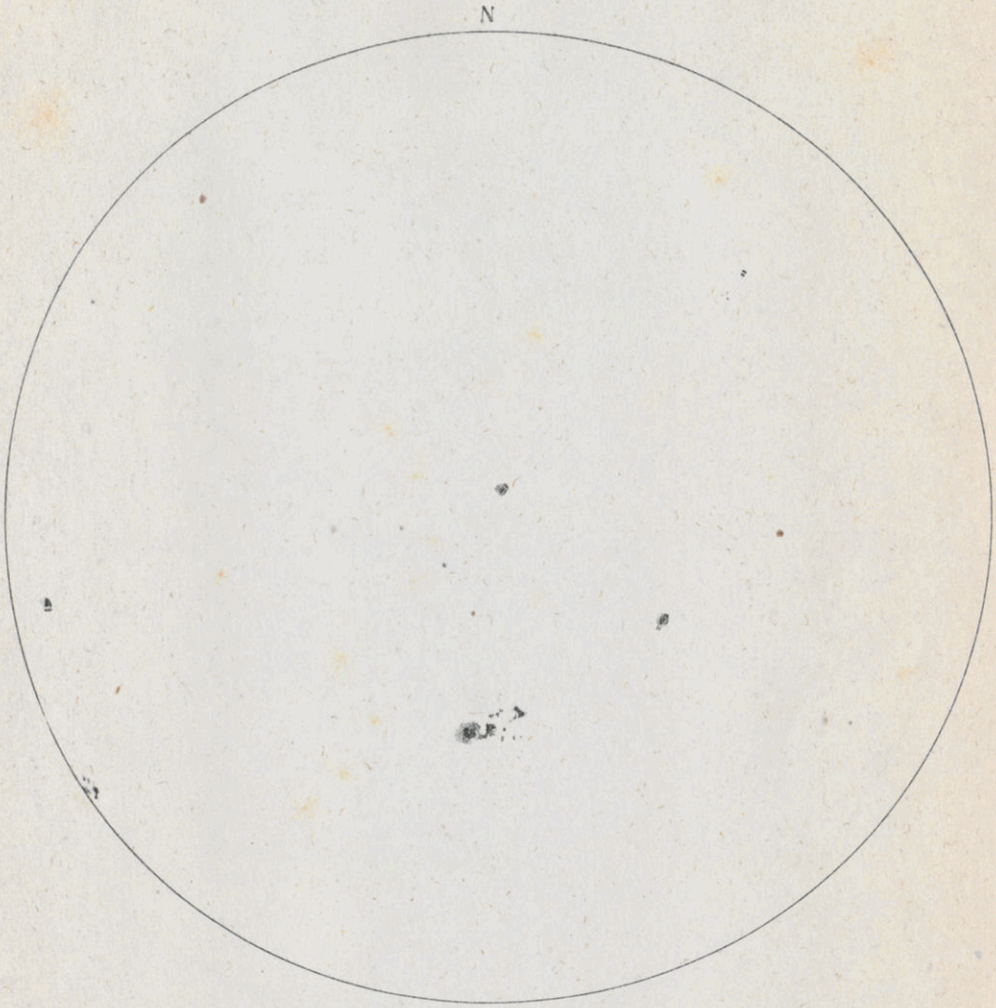

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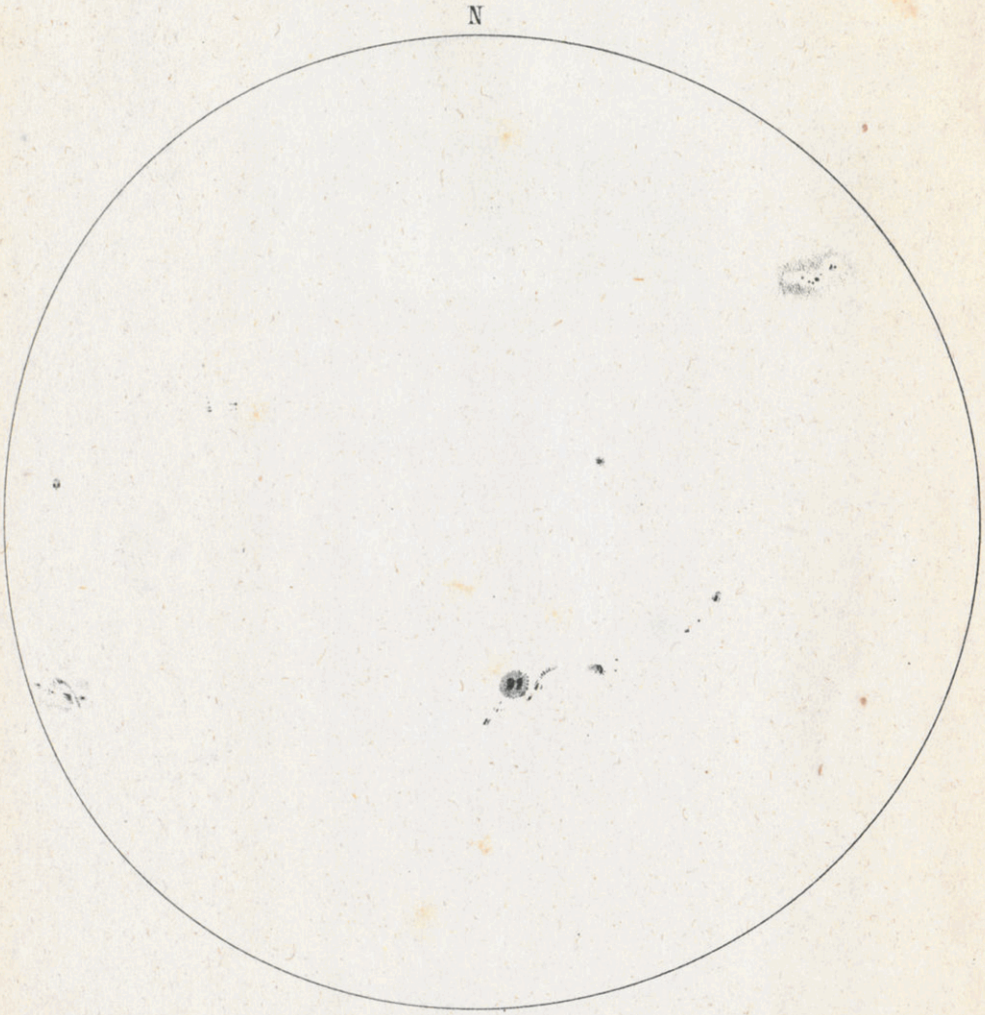

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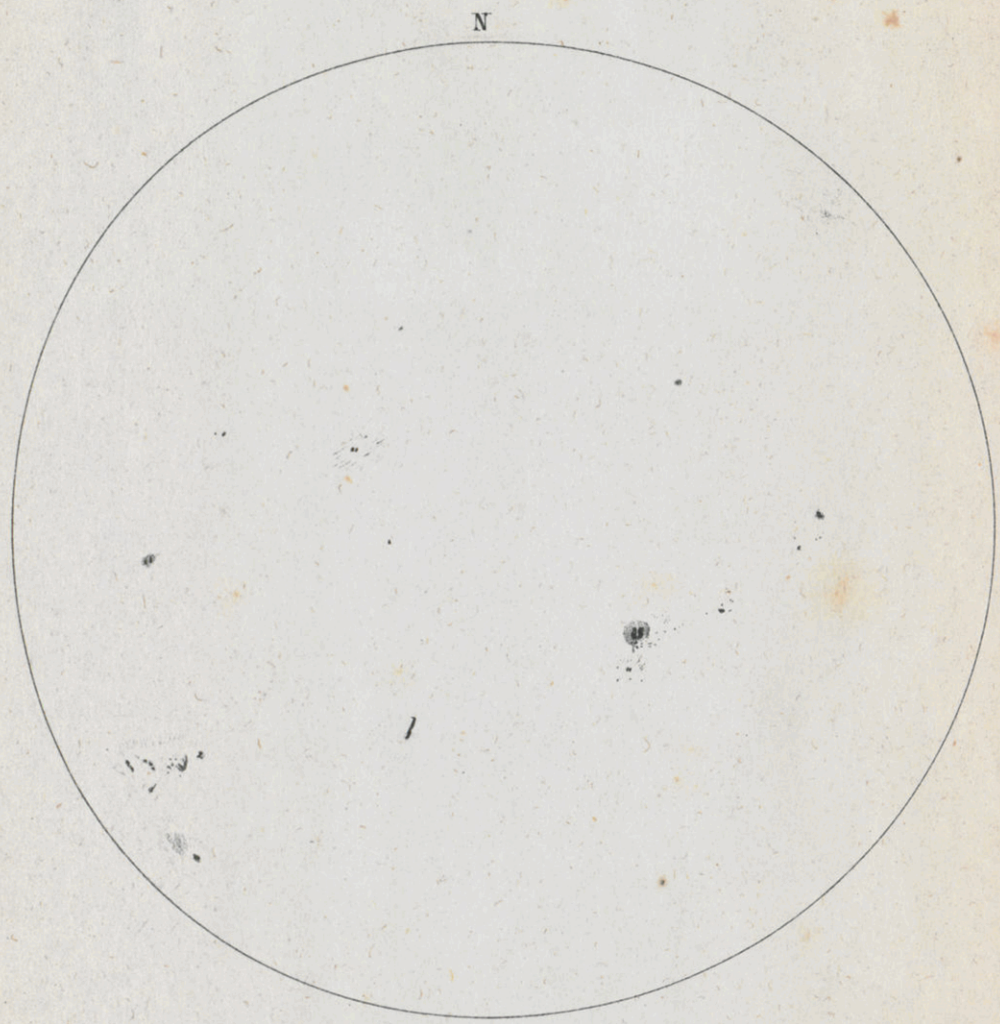

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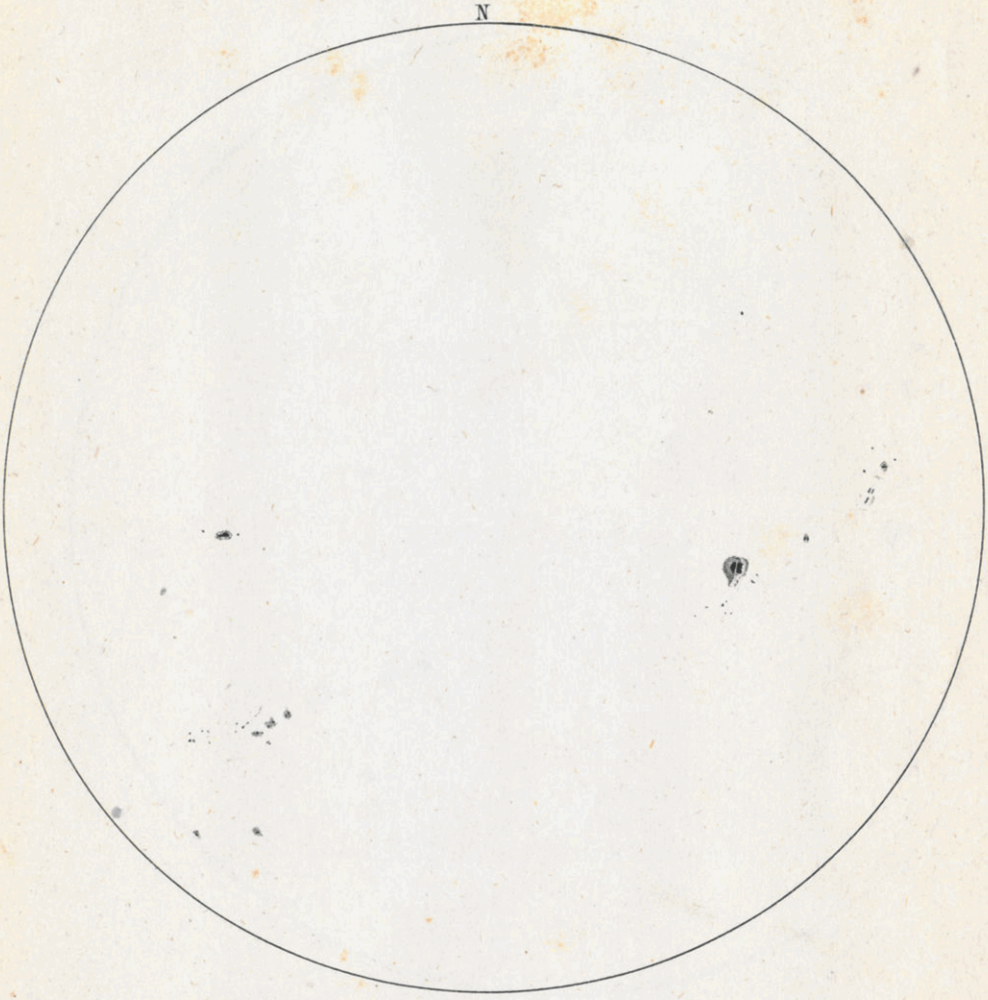

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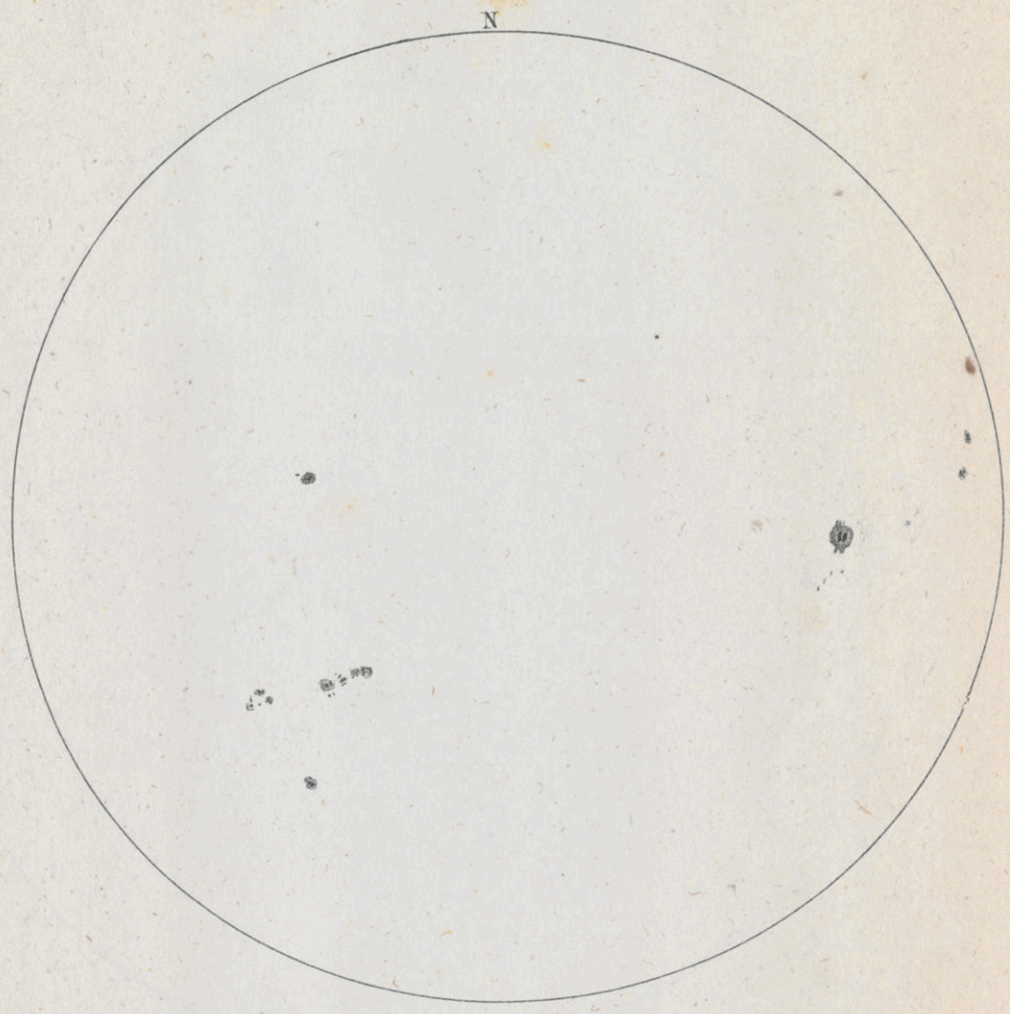

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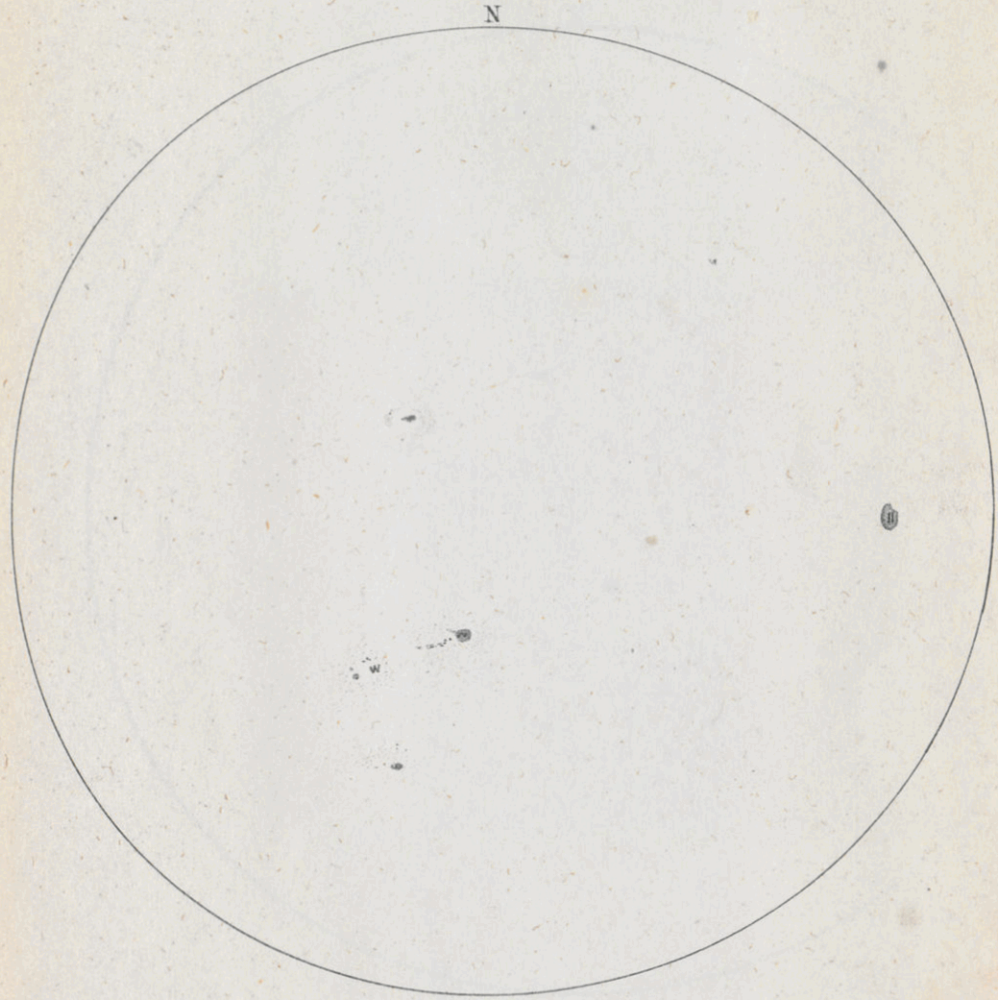
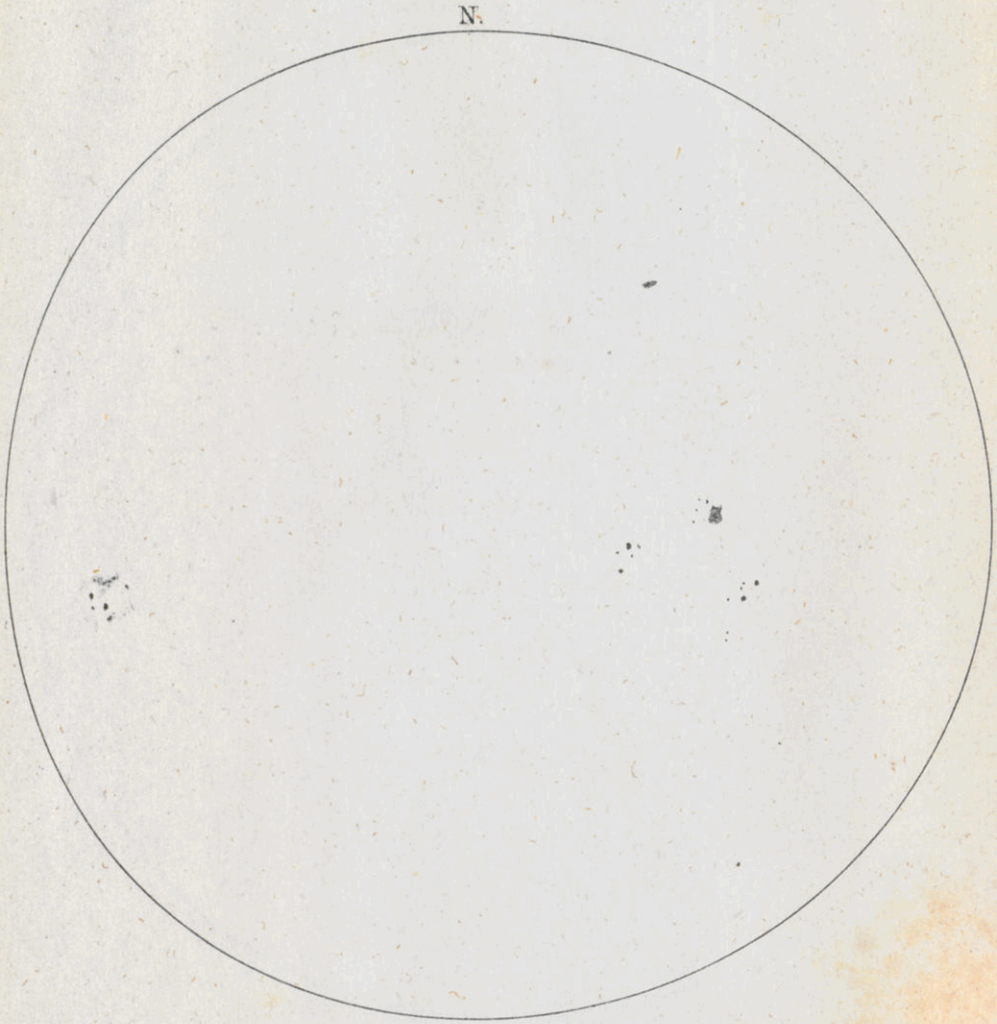


Oct. 7th

Oct. 8th

Oct. 9th



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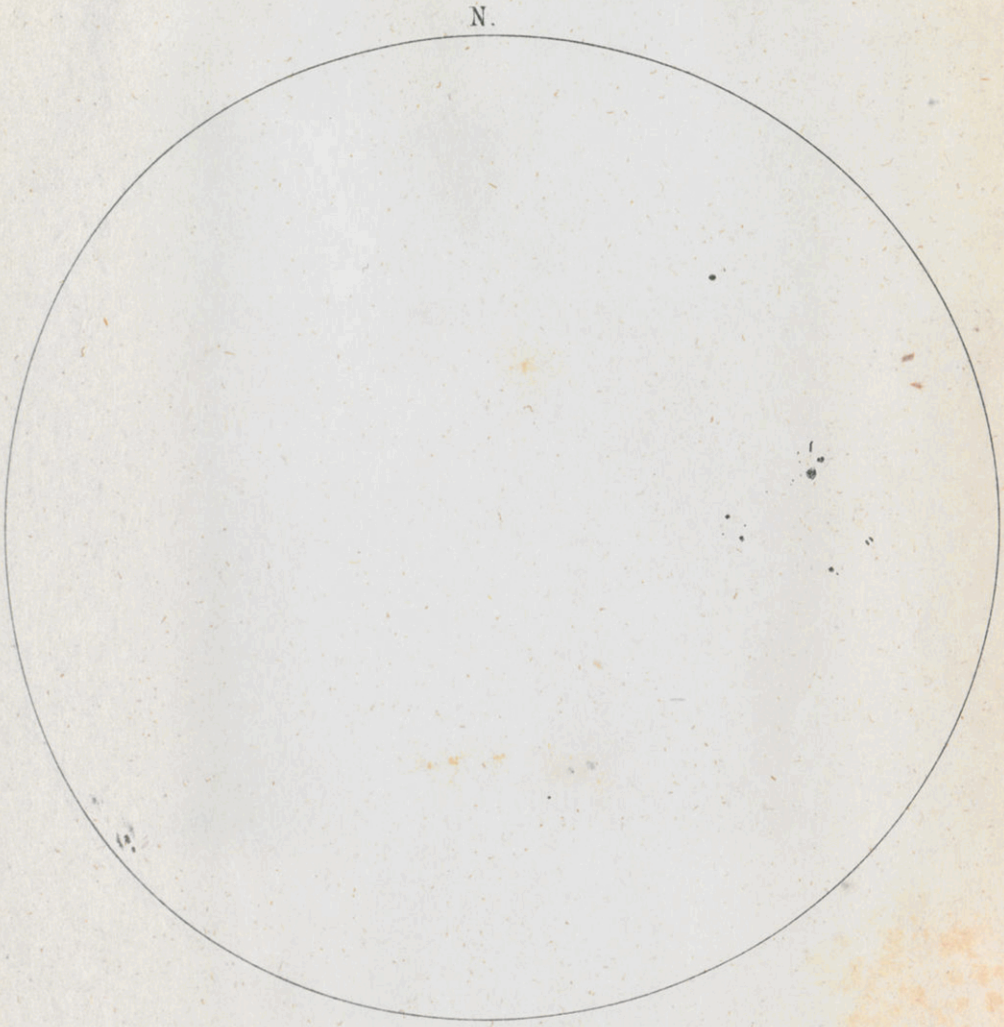
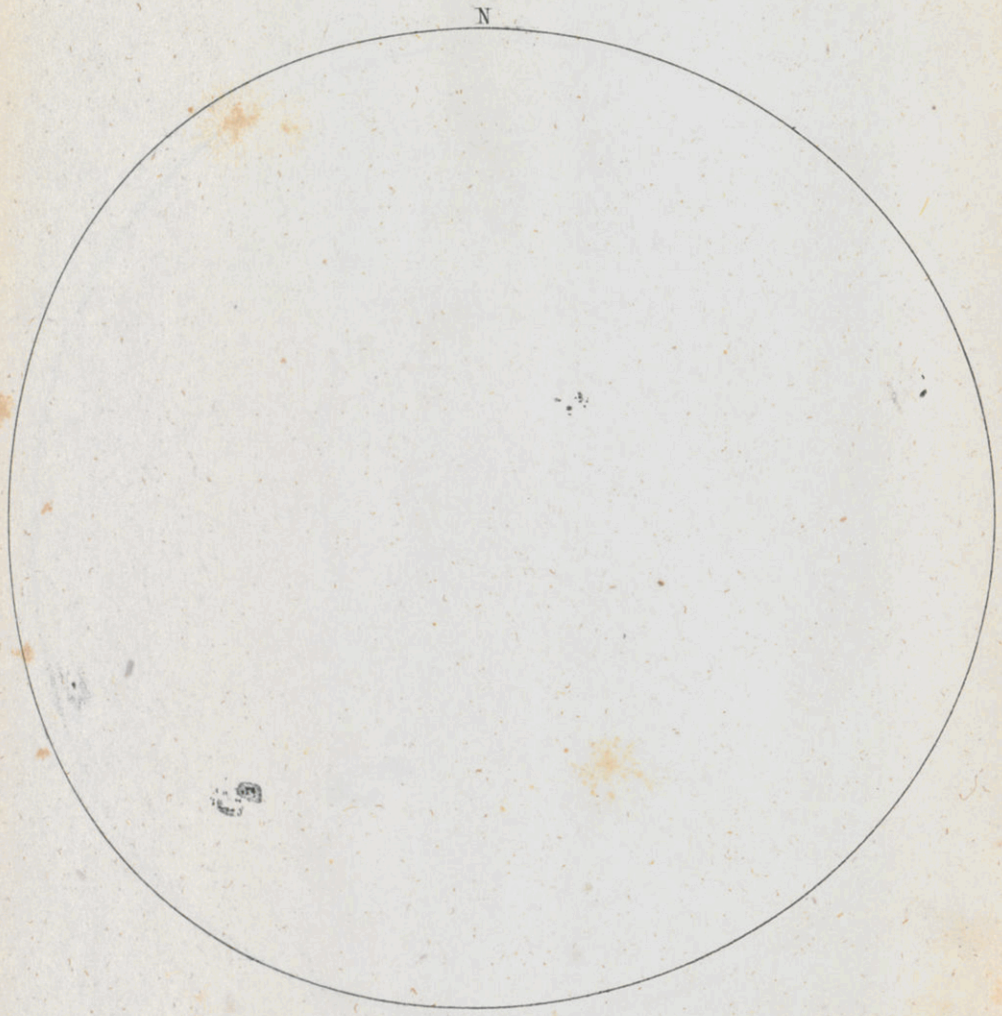


Oct. 11th

Oct. 12th



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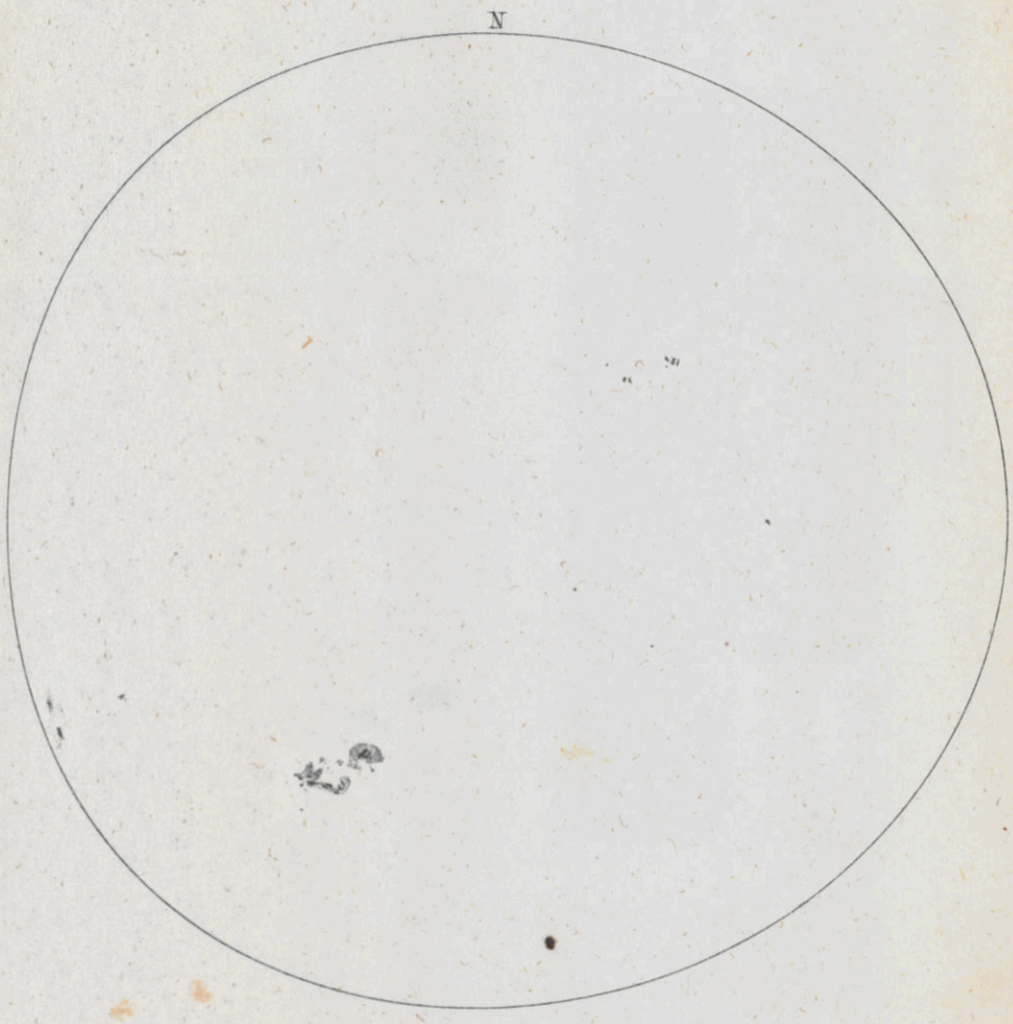
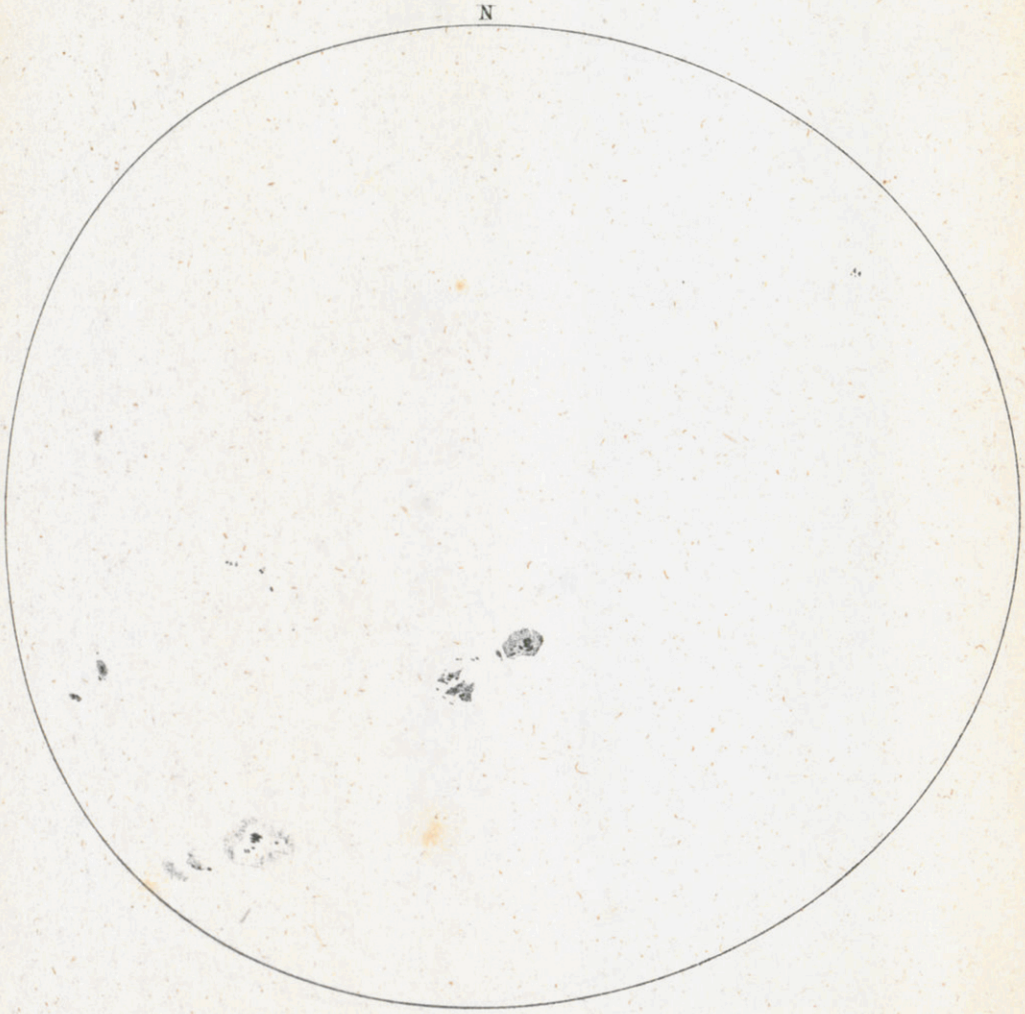


Oct. 14th

Oct. 15th



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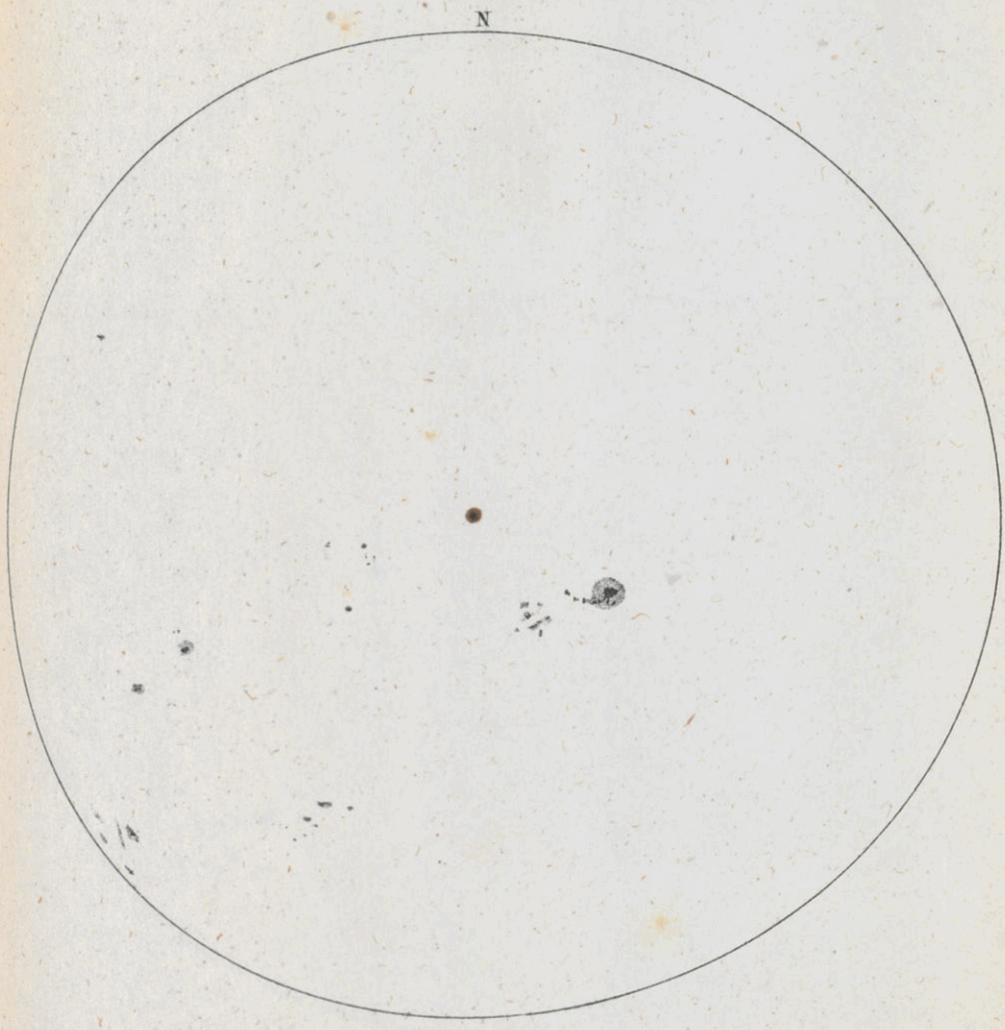

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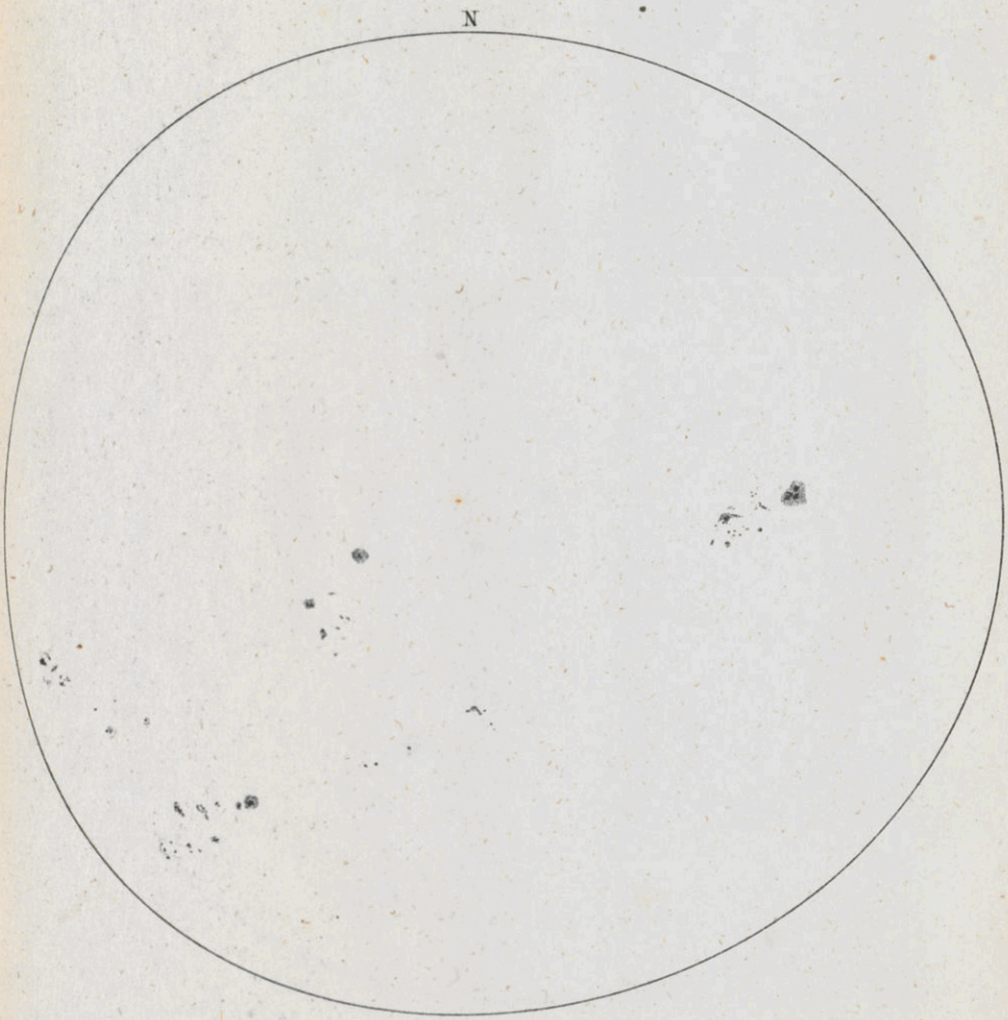


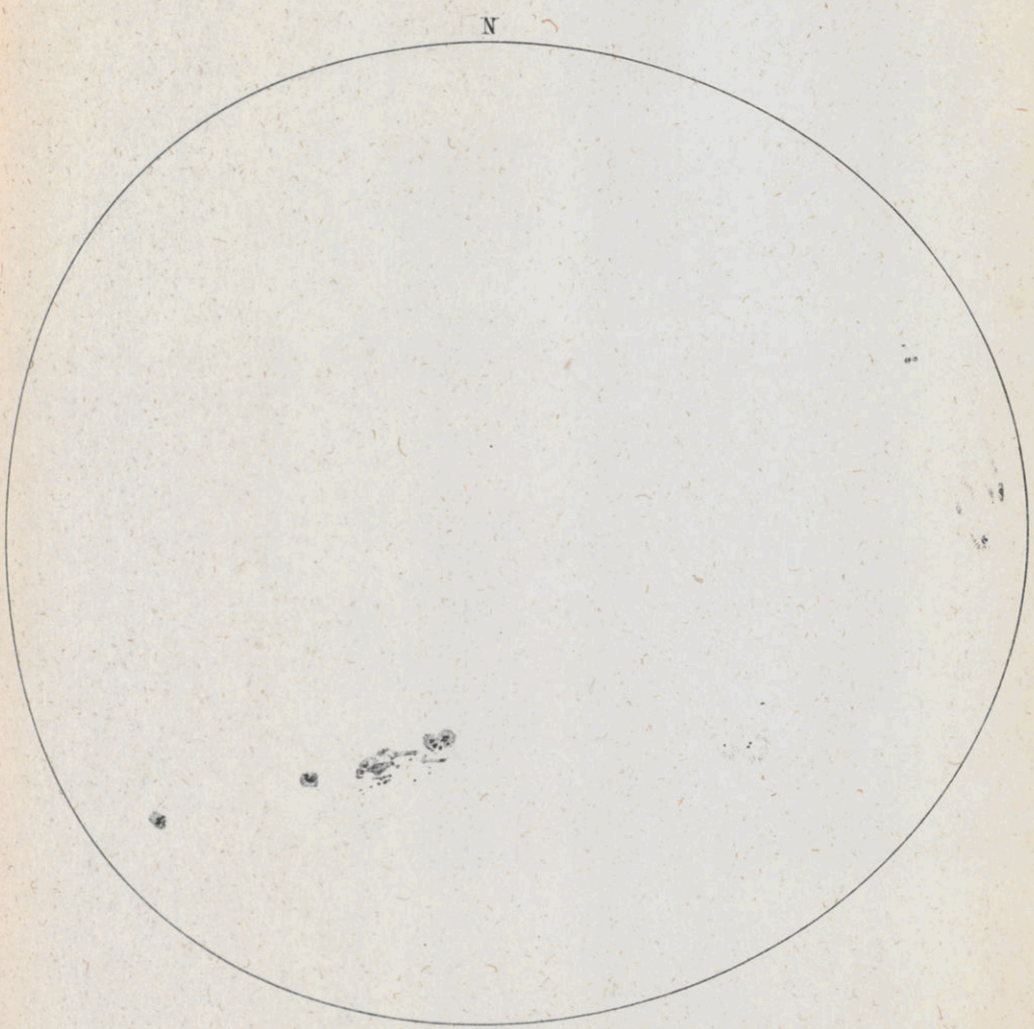
Oct. 19th

Oct. 20th

Oct. 21st

Oct. 22nd

Oct. 23rd



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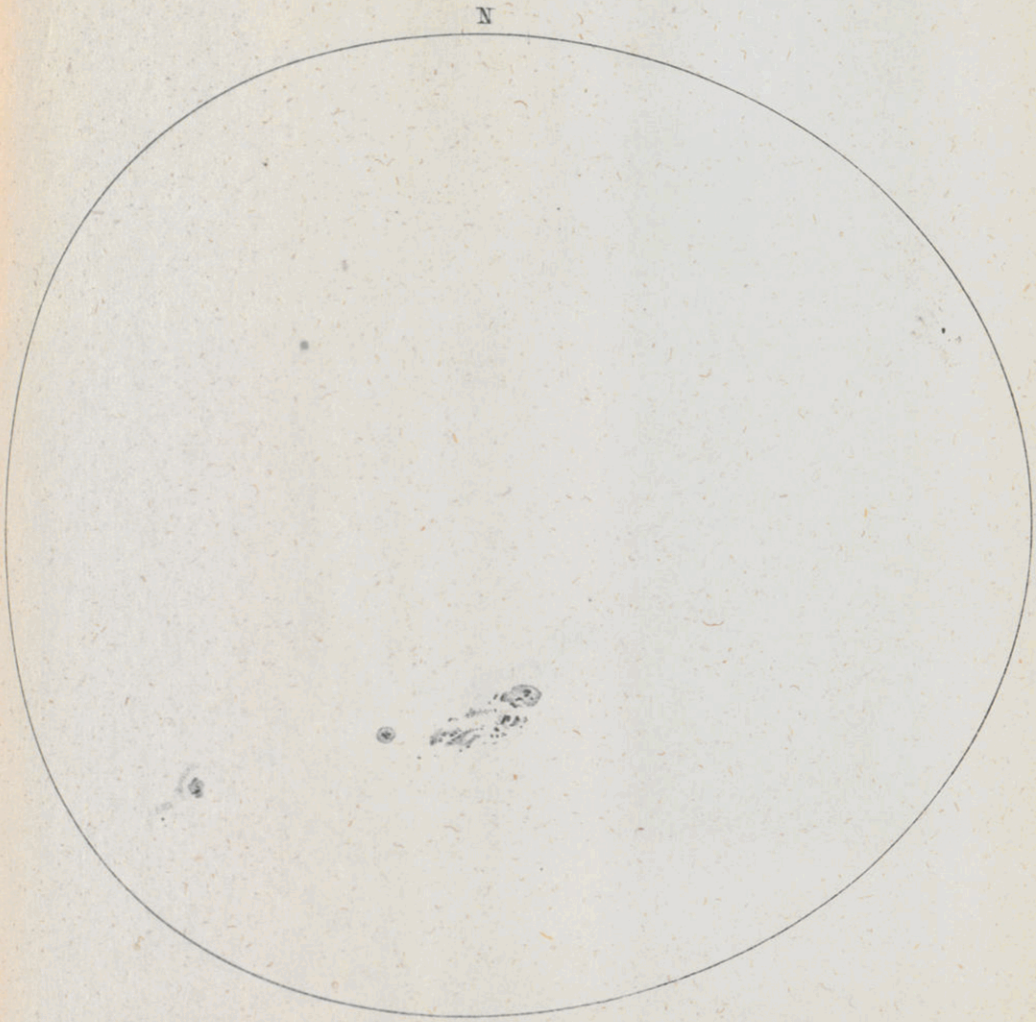

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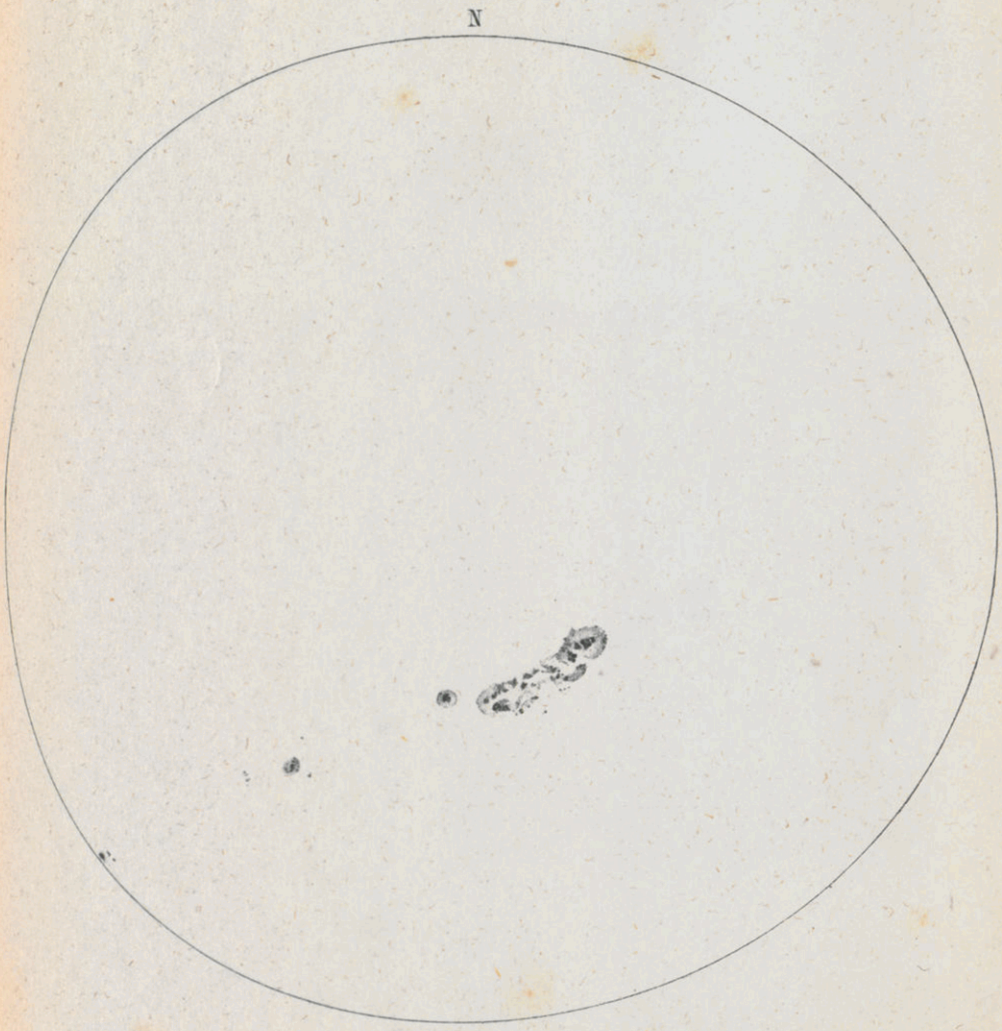

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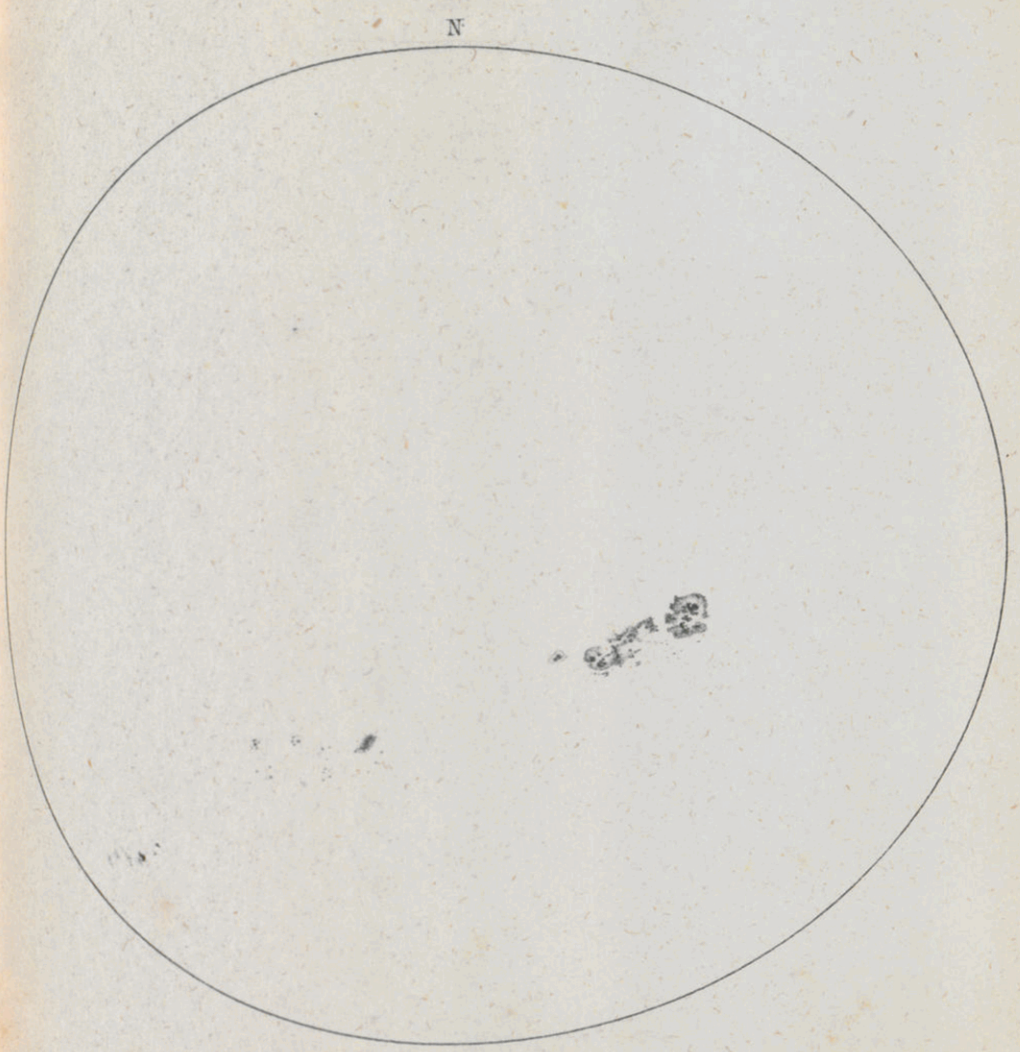
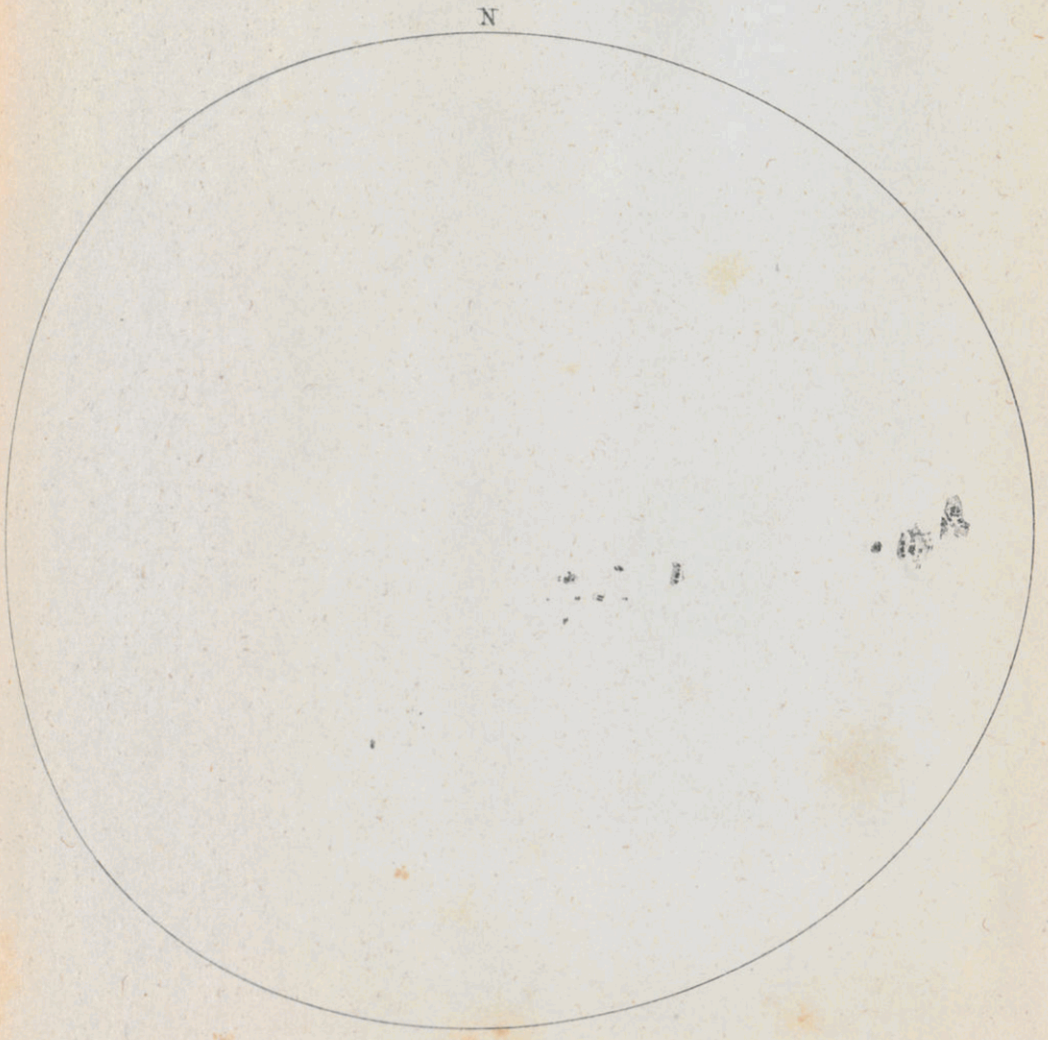


Oct. 31st

Nov. 1st

Plate XL.

Nov. 2d



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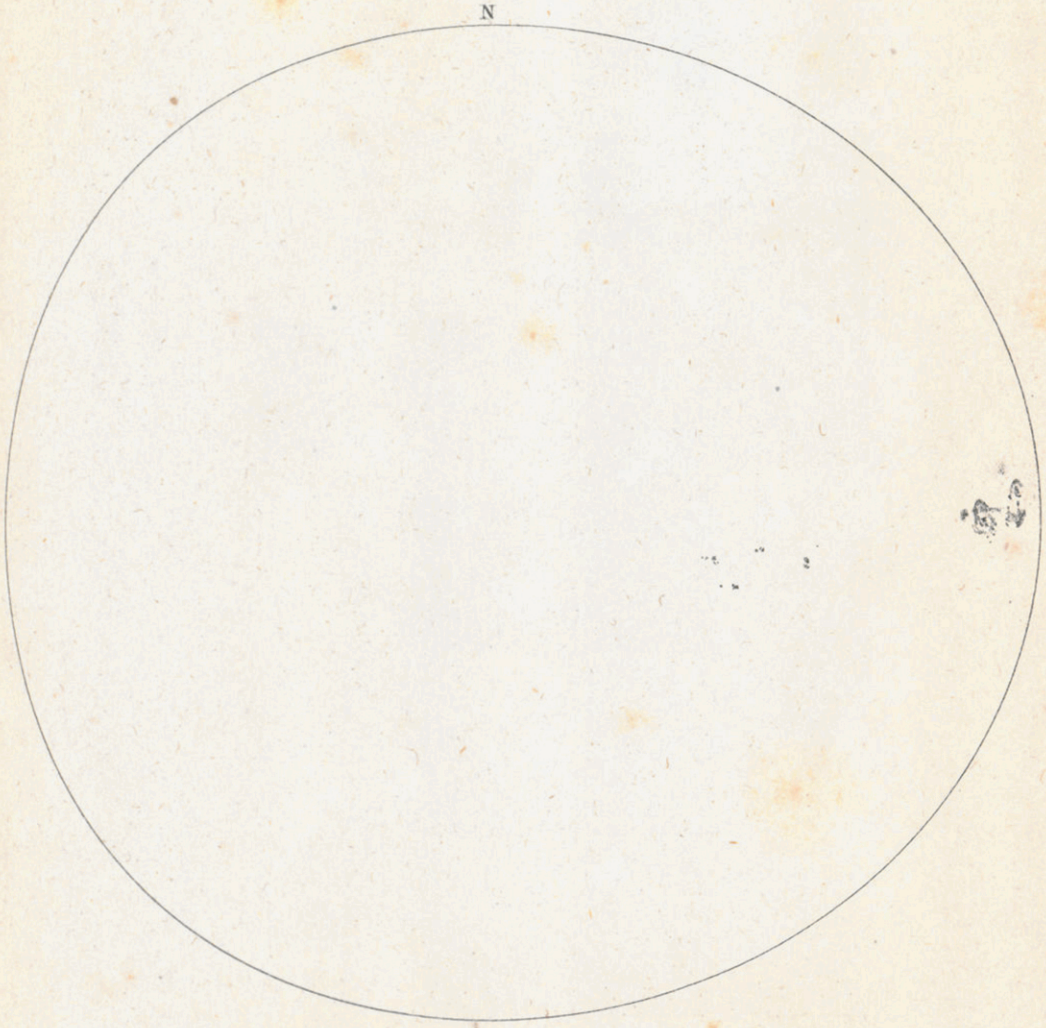


Nov. 4th

Series of the changes of a cluster

from the 20th of Sept. to the 1st of October

Series of the changes of another cluster

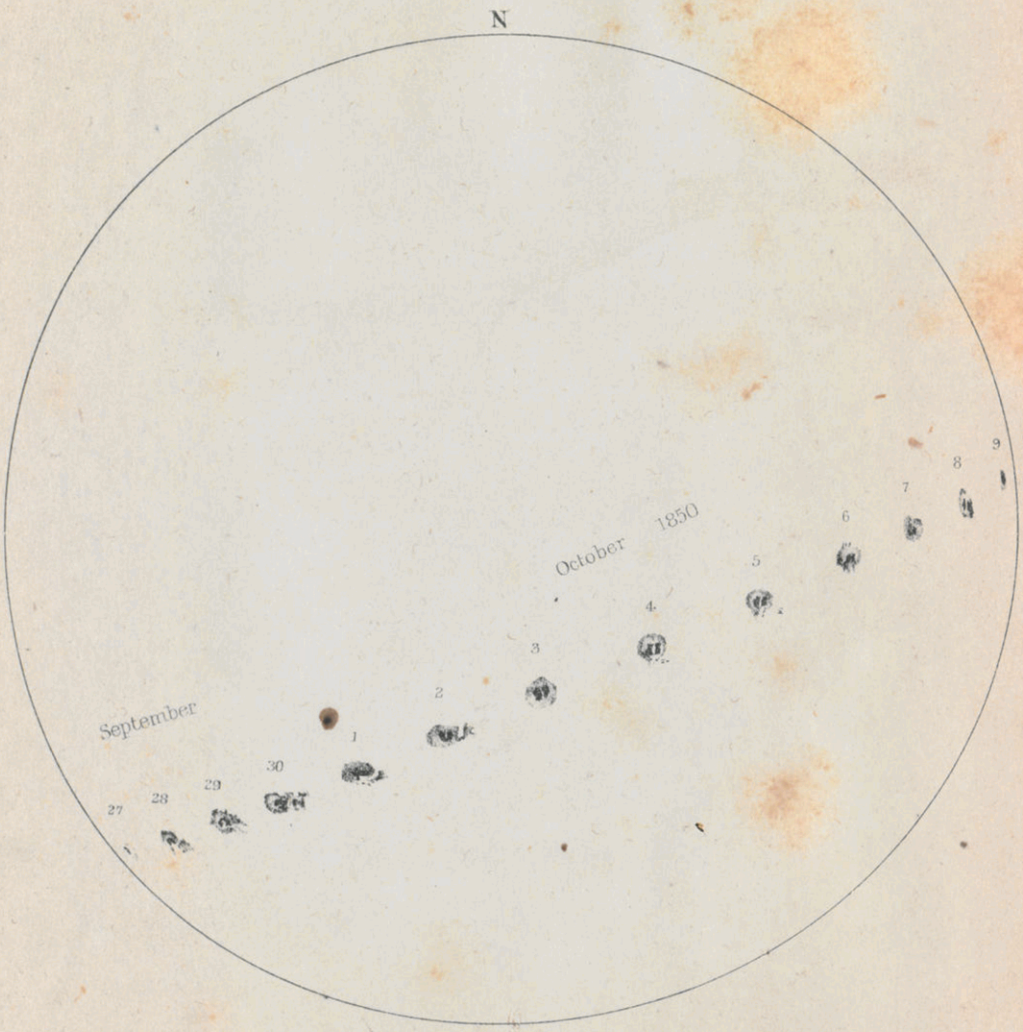
from the 11th to the 23d of October

Series of the changes of a third cluster

from the 28th of October to the 4th of November

Diagram showing the track of a spot on the solar disk

Plate XLIV



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