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Dear Sir

all though I am not acquainted with you, I nevertheless am so bold to apply to you about a question of such high scientific interest, as I am sure, that you will be able to give me valuable advice. Mr. Schramm, astronomer at the observatory Hamburg told me, that you possibly have photographic plates of the sun taken during a total eclipse.

The known physicist Prof. Einstein has decided in a paper, he intends to publish in the course of the next

month an effect, that any field of gravitation produces upon electro-magnetic phenomena for instance an effect of the gravitation of the sun upon the light of a star being near to the sun. The influence of the gravitation is an apparent increase of the angular distance of the star from the sun till to the amount of $0.83''$ or an increase of the relative distance of two stars on both sides of the sun till to the amount of $0.86''$. This influence decreases rather rapidly and has for instance for a star in 1° distance from the sun only the value $0.21''$ resp. $0.42''$.

On the other hand Mr. Kovalevich, astronomer of the Royal Observatory Berlin, has decided lately from observations a value for the cosmic refraction in the neighborhood of the sun of at least $1''$ in 5° distance from the sun.

Therefore you will understand, that it is of very great interest indeed for me to know, if your eclipse plates allow to ^{measure} ~~measure~~ the distance of any stars on the plates from the disc of the sun so accurately, as to enable us to get any proofs for these different theories, and you can imagine, how much I shall be obliged to you, if you would tell me, if your plates have been examined from this standpoint or if you could give me the opportunity to do it.

I am very much interested in these questions and would like to know, if the existing observations already give us the possibility to answer any of these questions arising.

Yours sincerely
E. Finlay J. J. J. J.
Assistant of the Royal Observatory
Berlin





Expedición a Brasil, 10 de octubre de 1912



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De Córdoba al Mar Negro, 21 de agosto de 1914

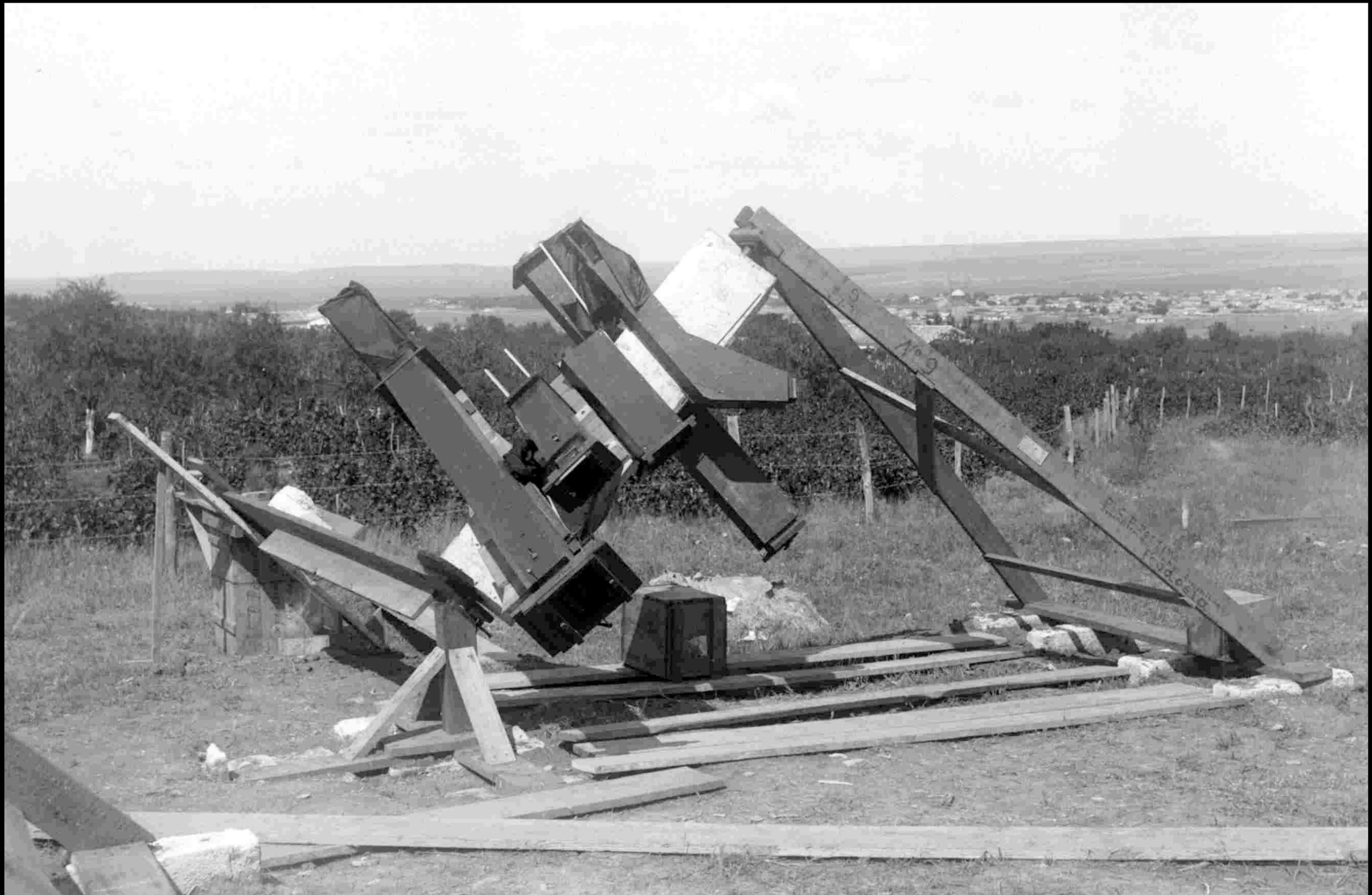


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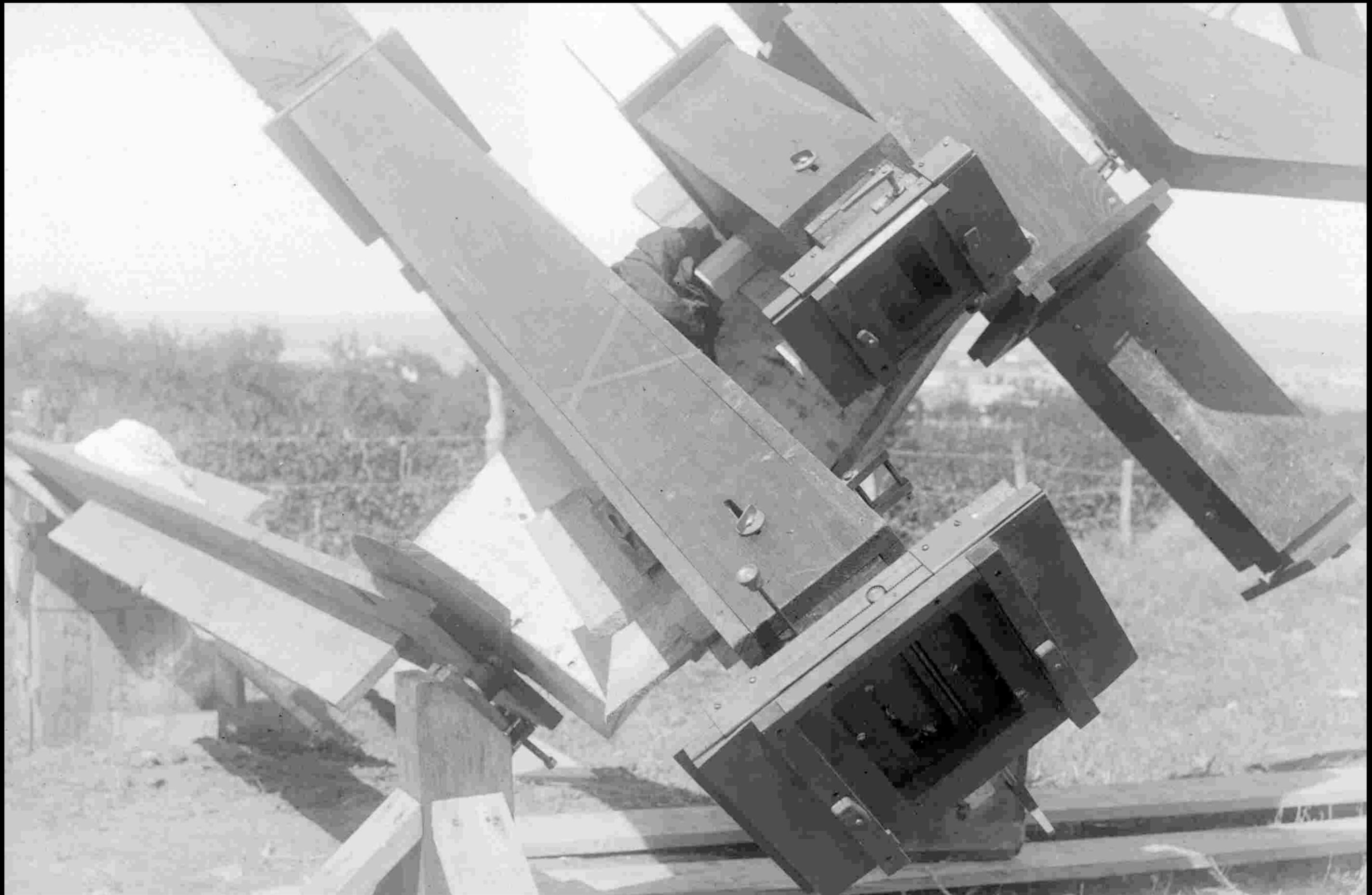


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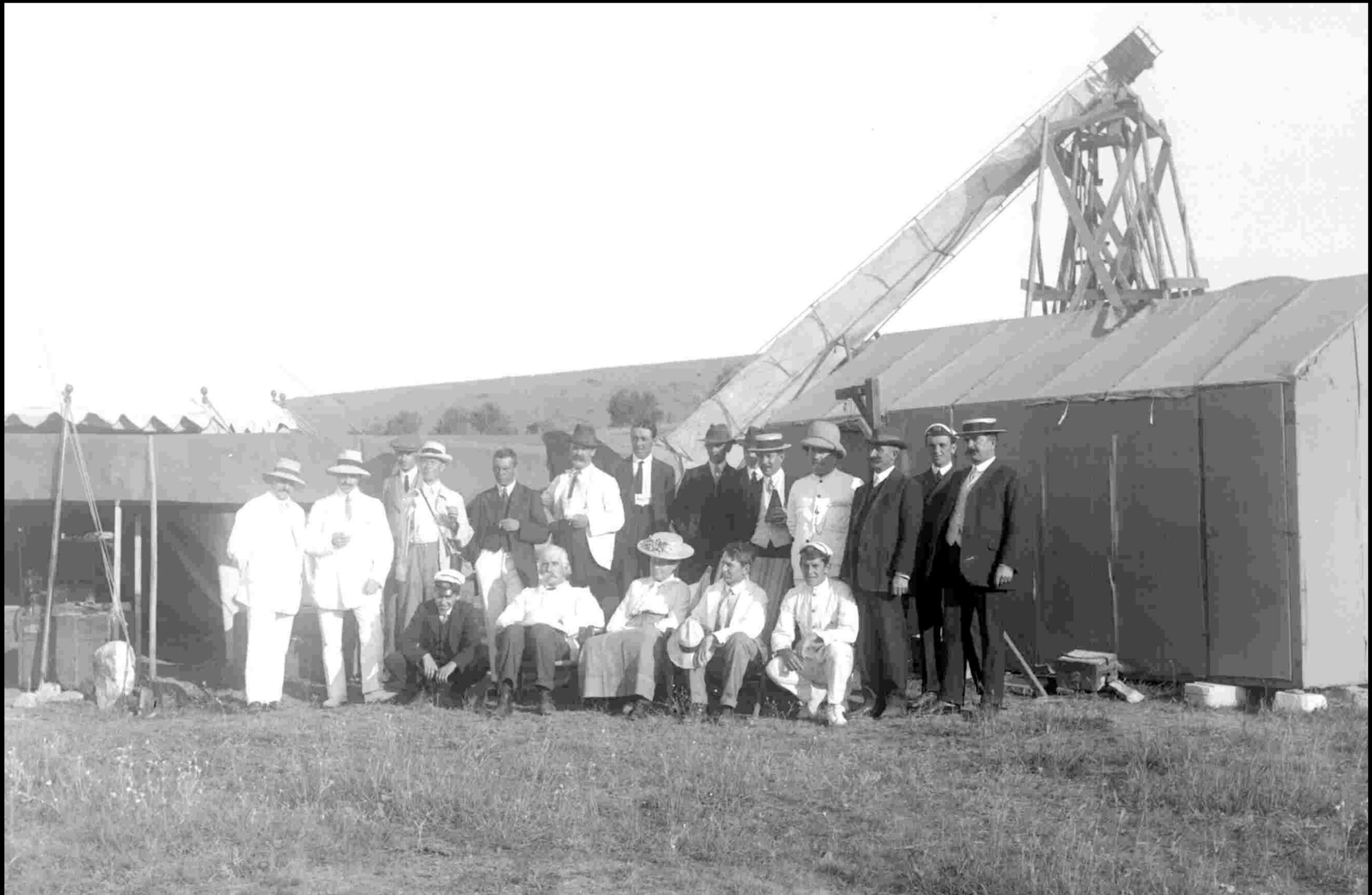


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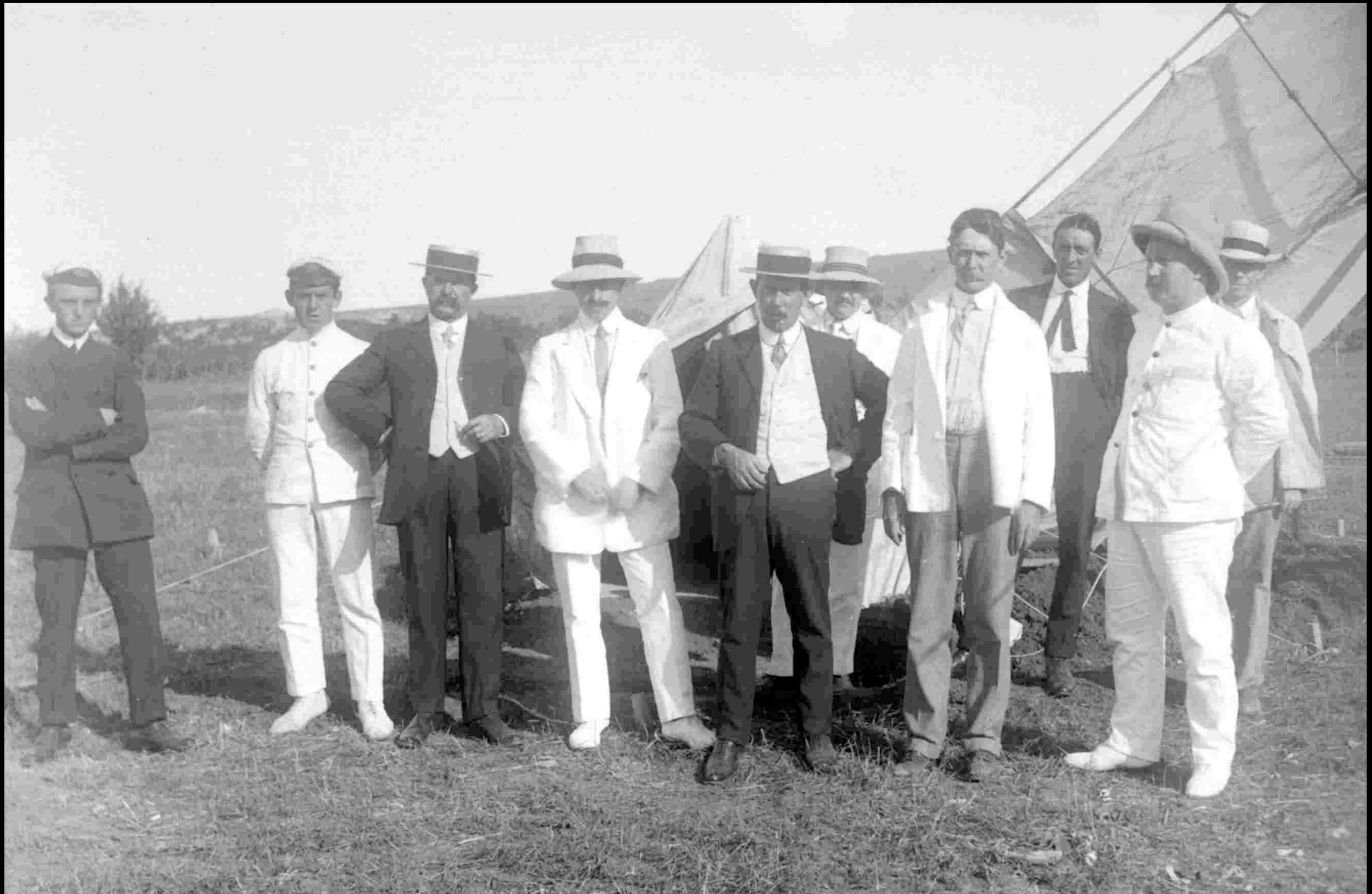


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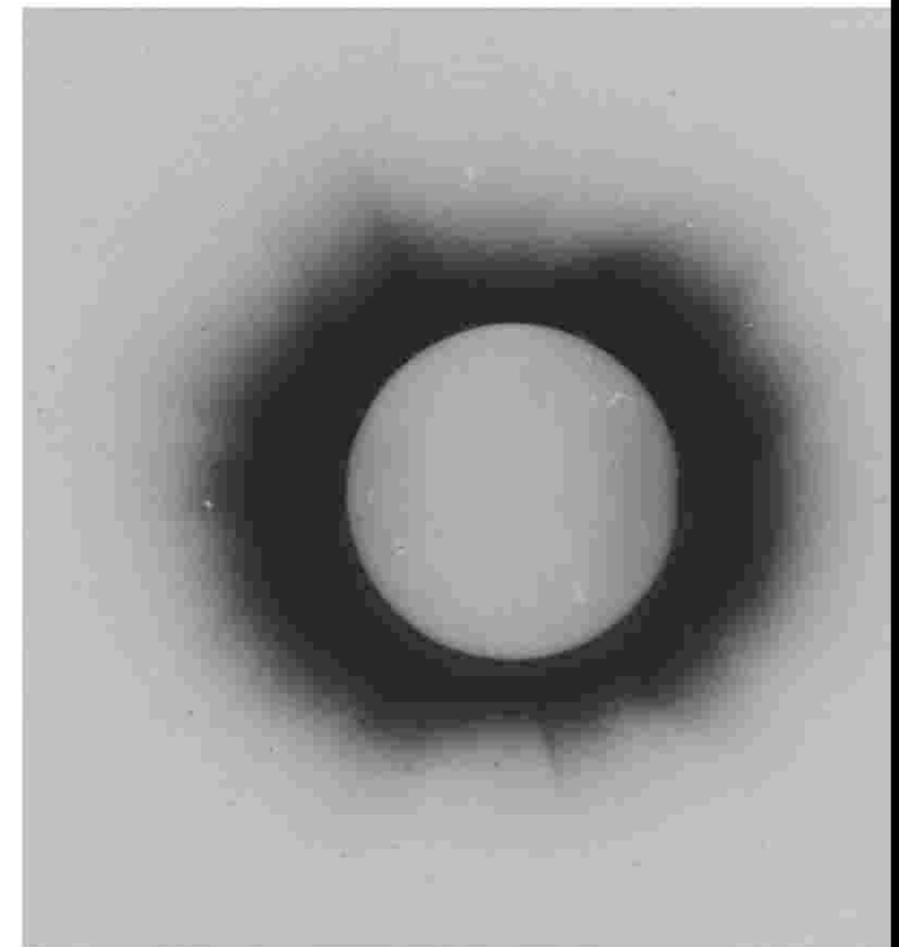
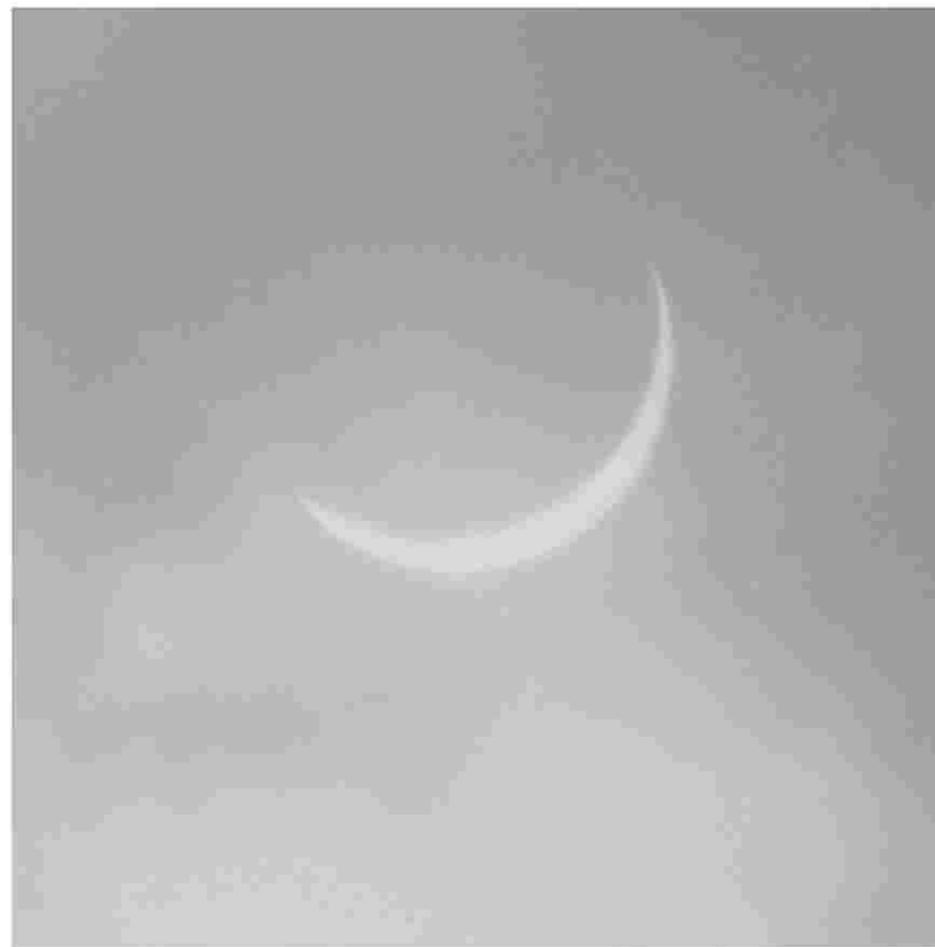


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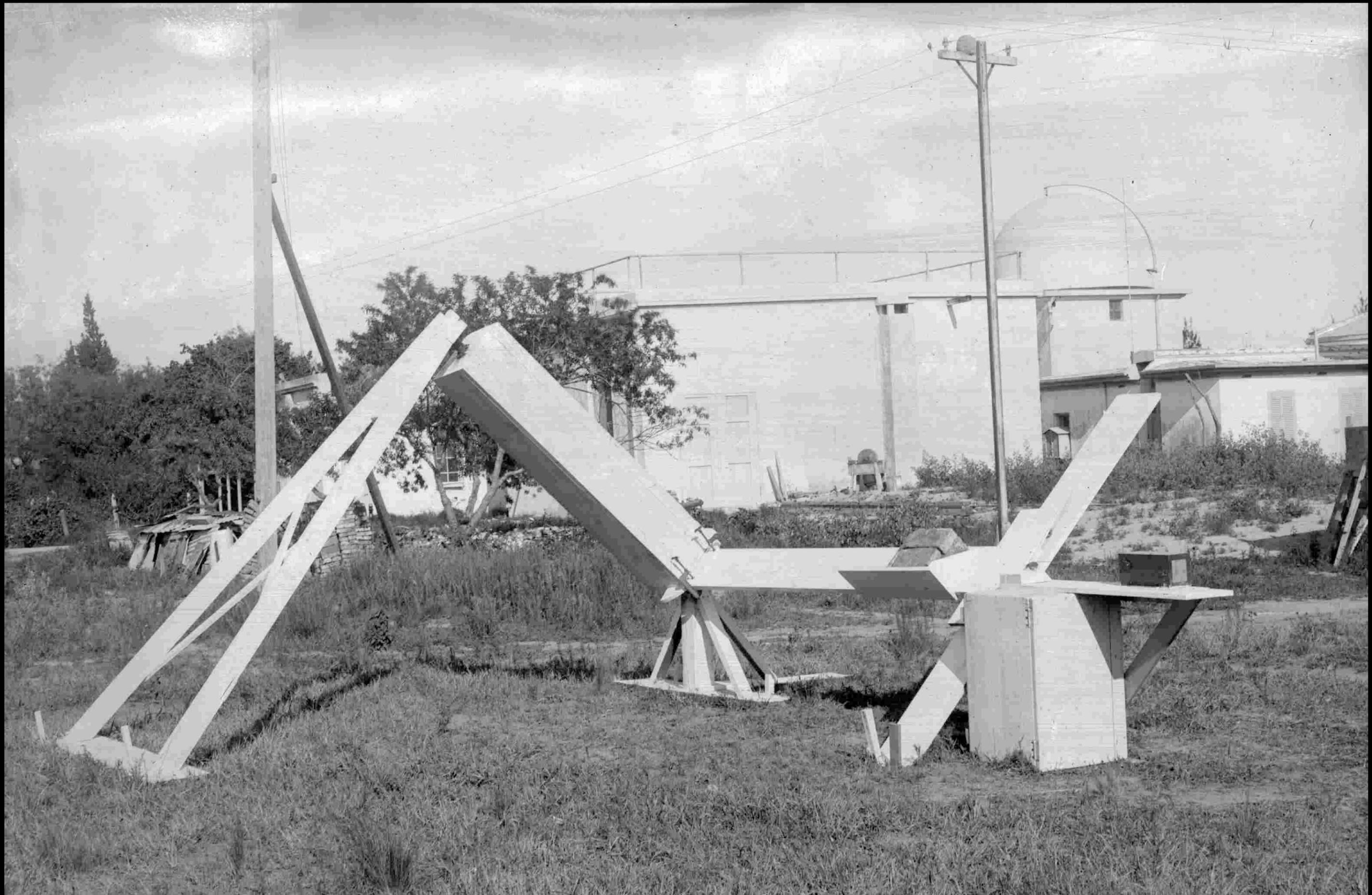


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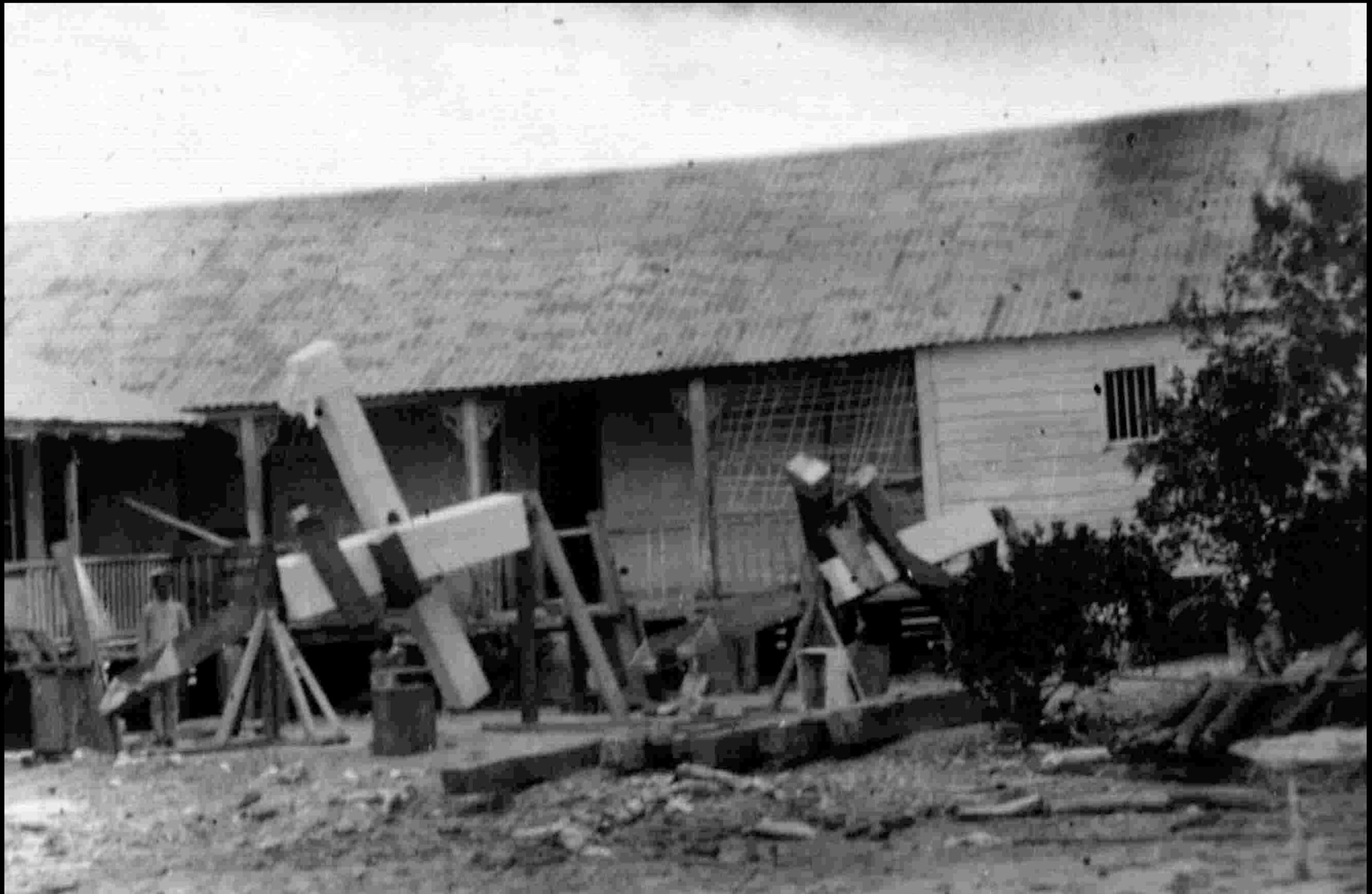


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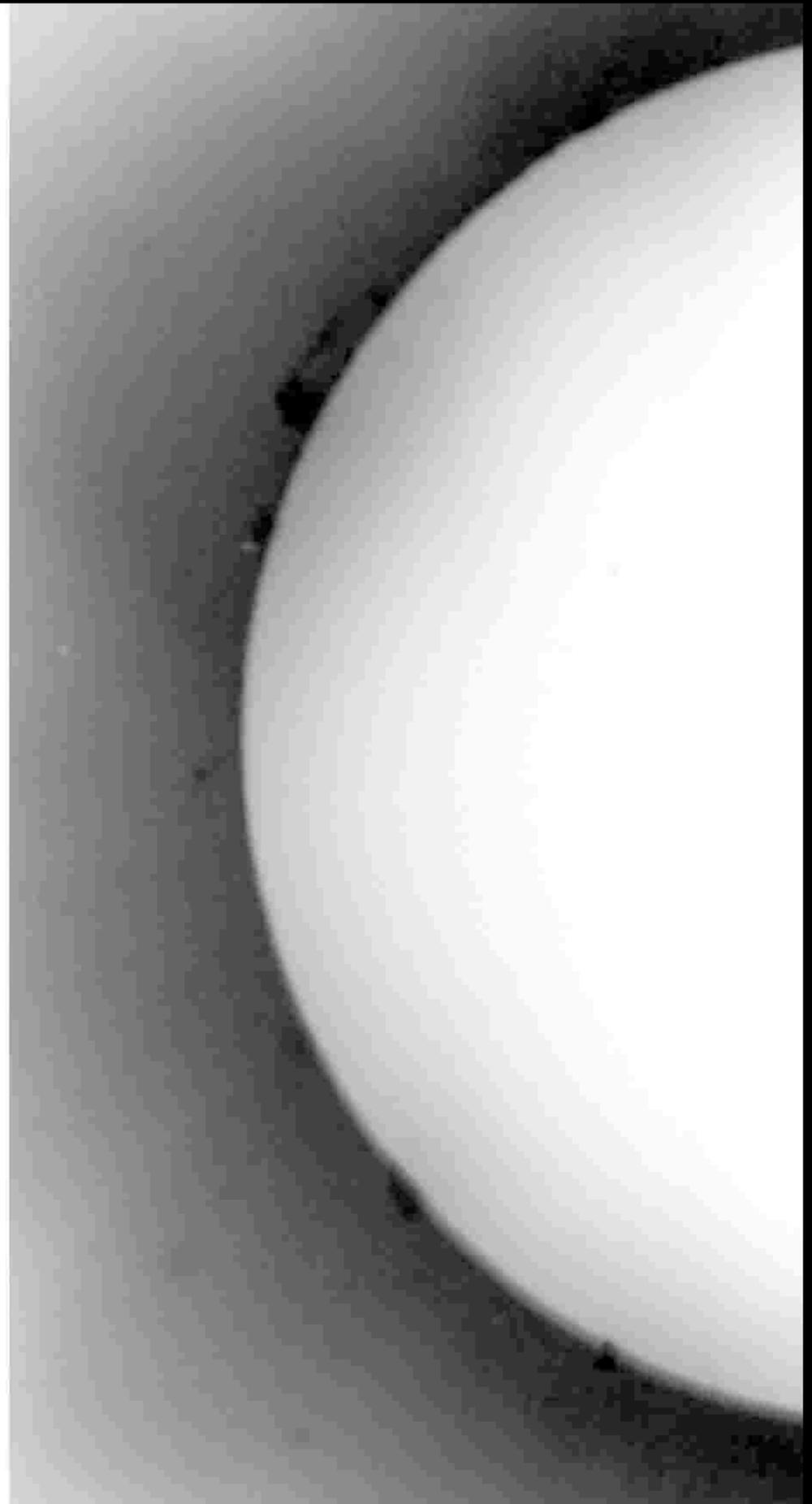
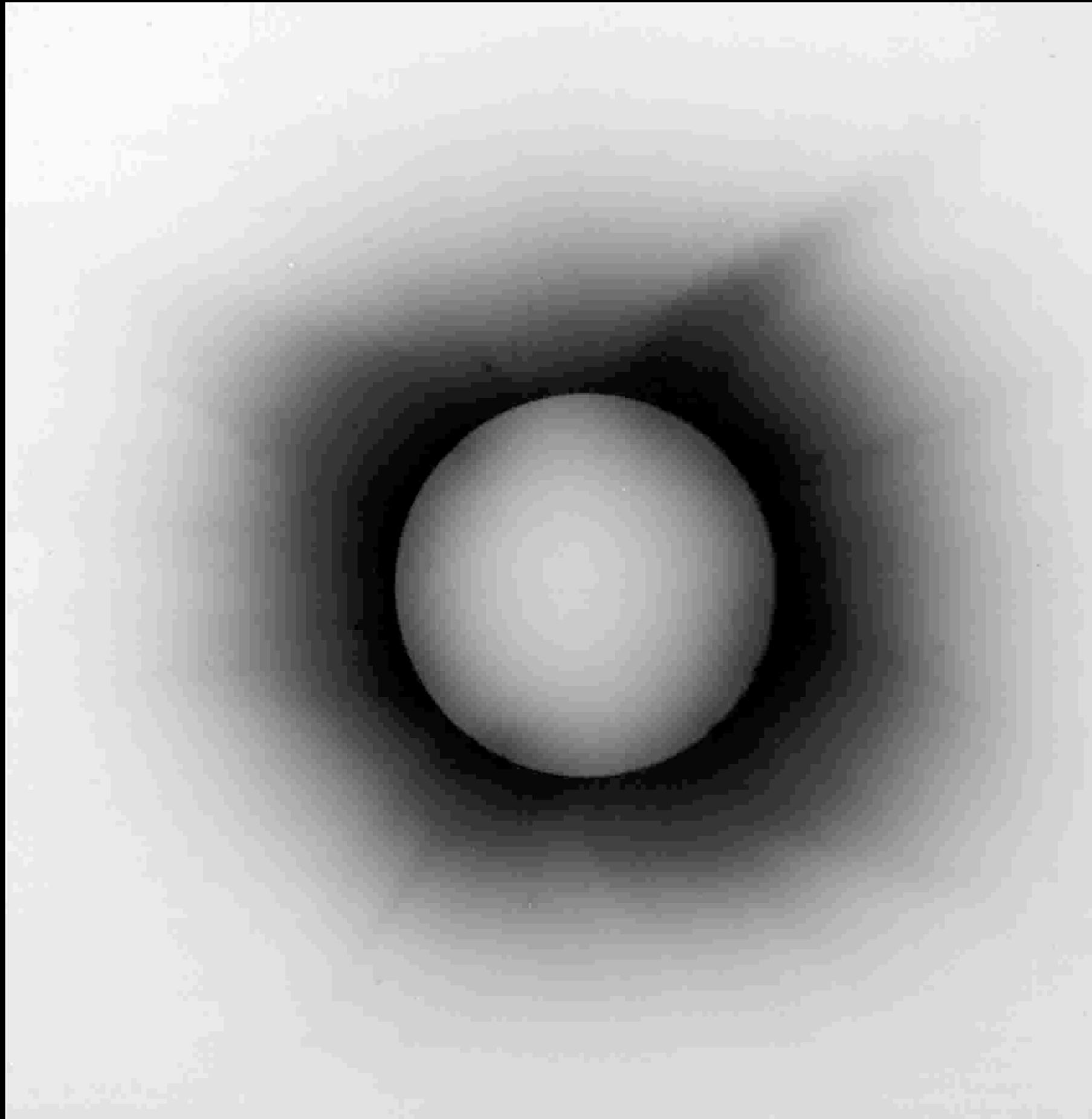


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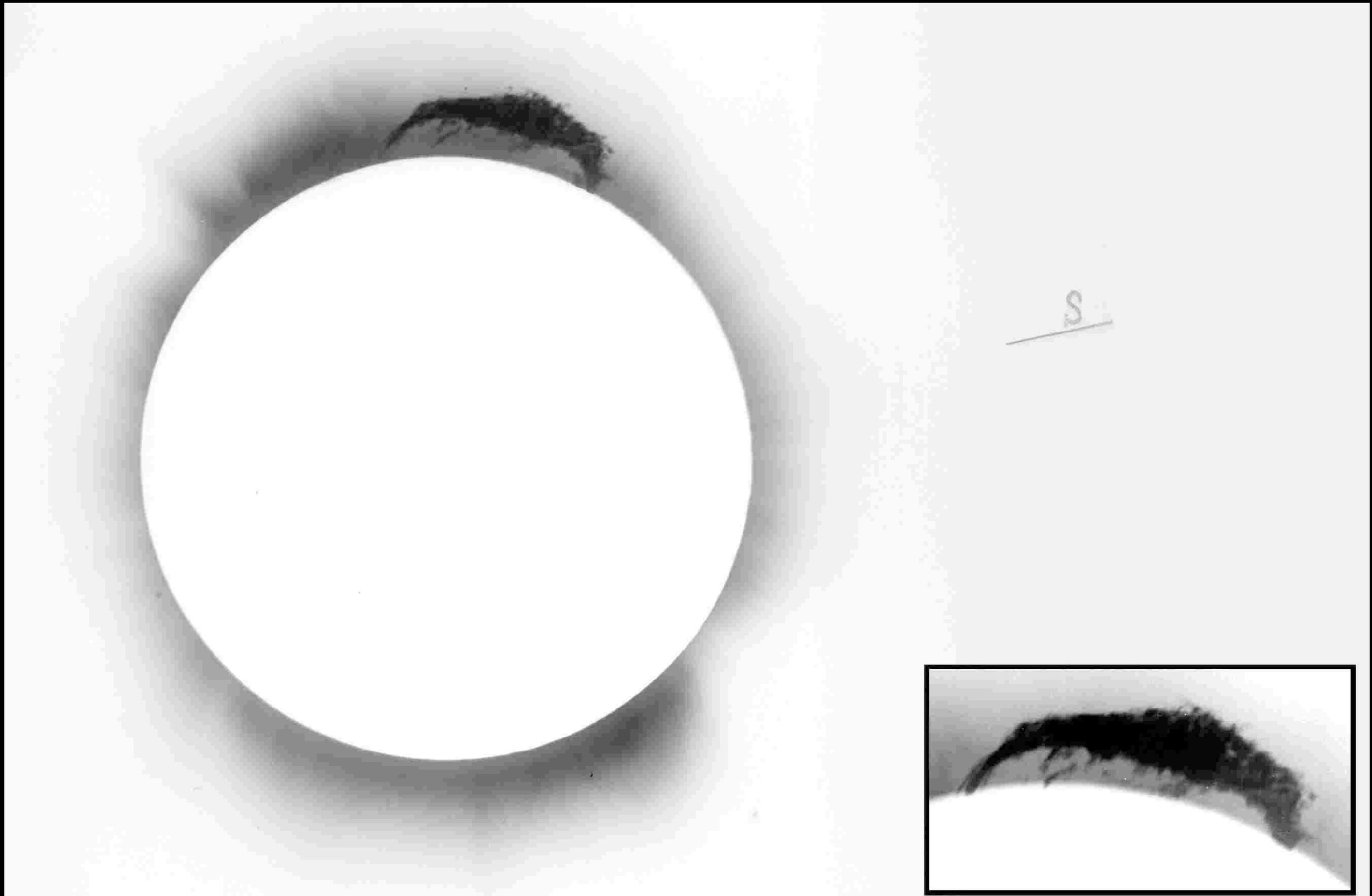


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La oportunidad perdida

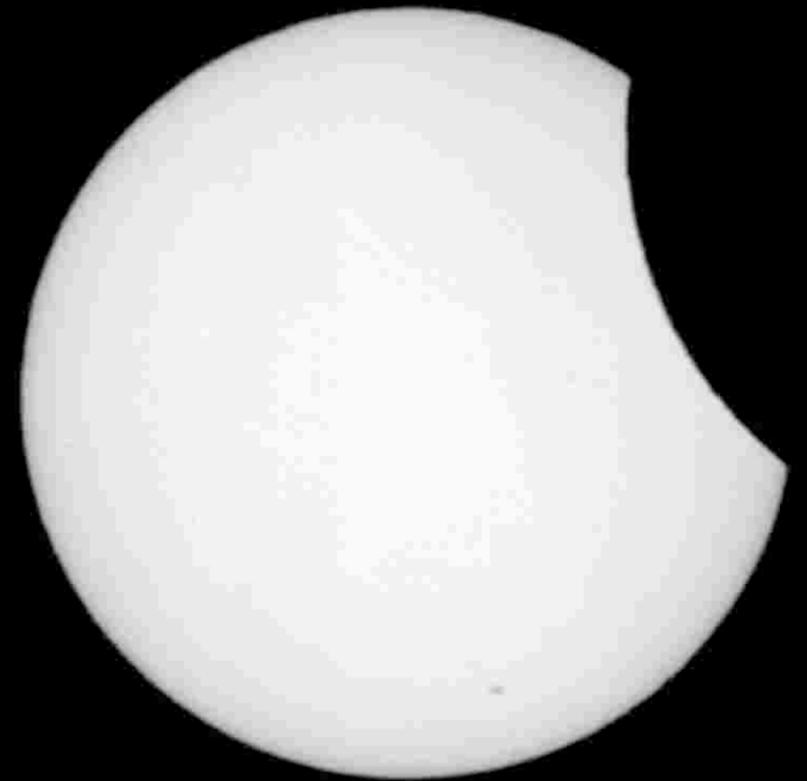
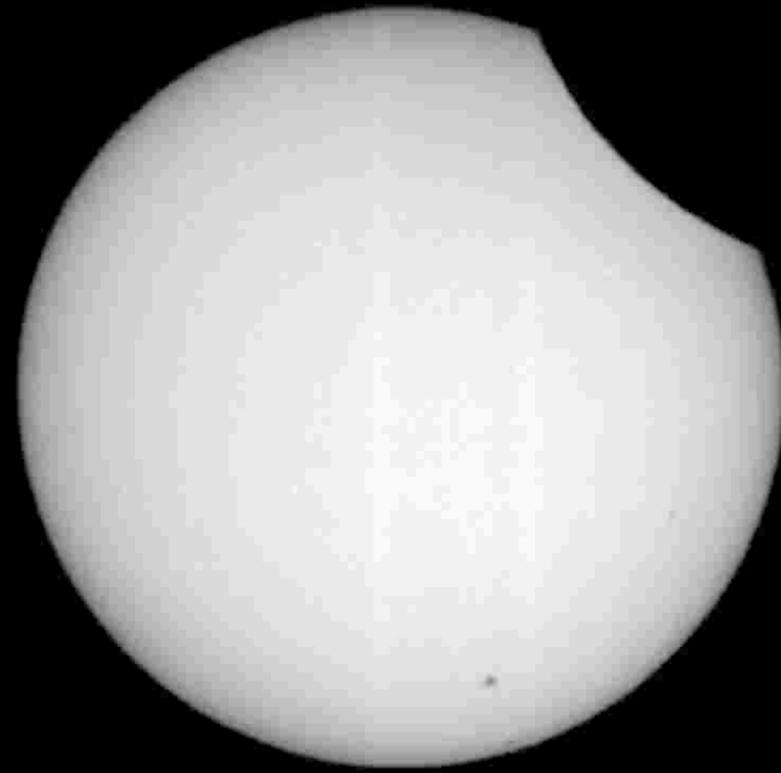
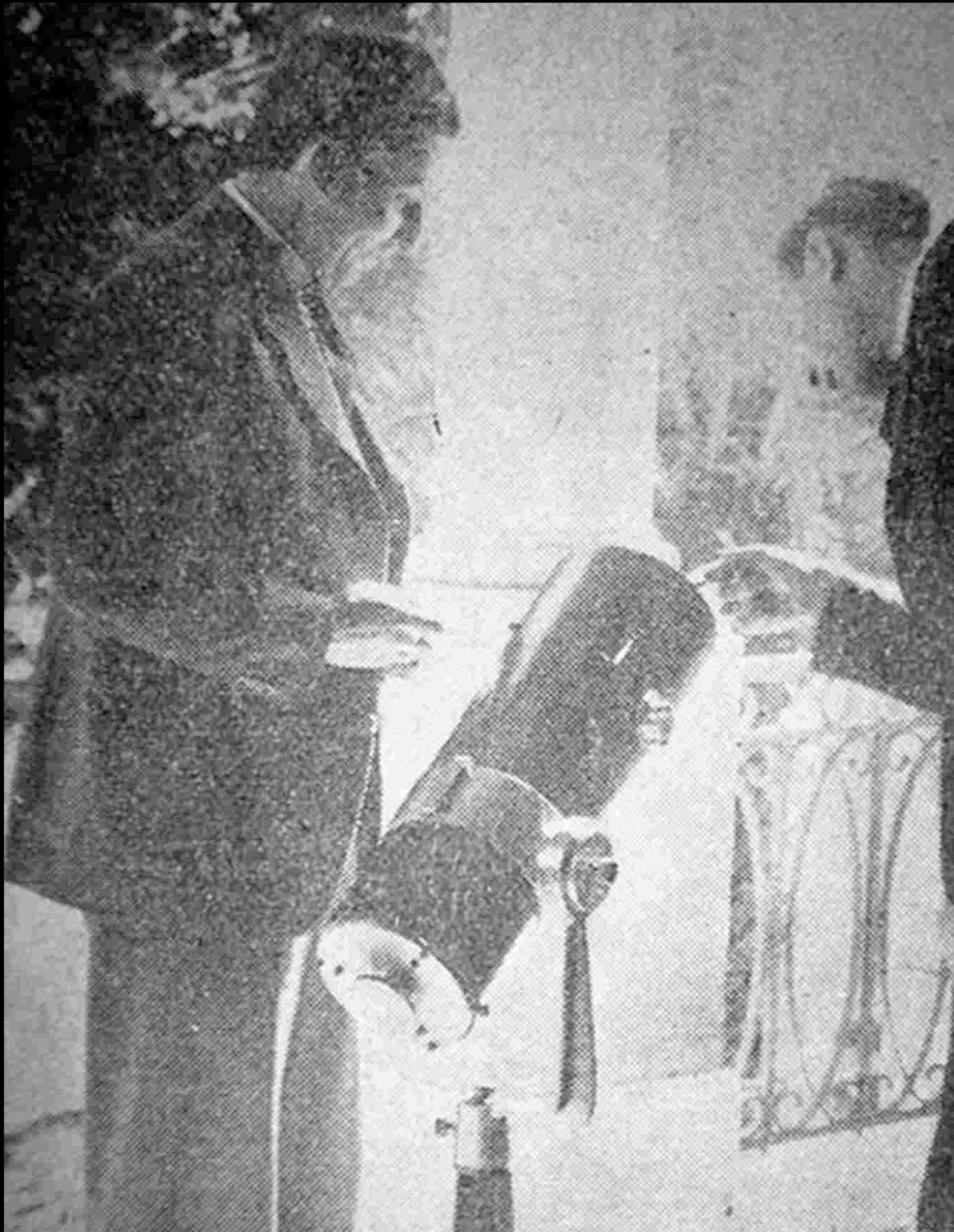


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Observación de eclipses parciales de Sol





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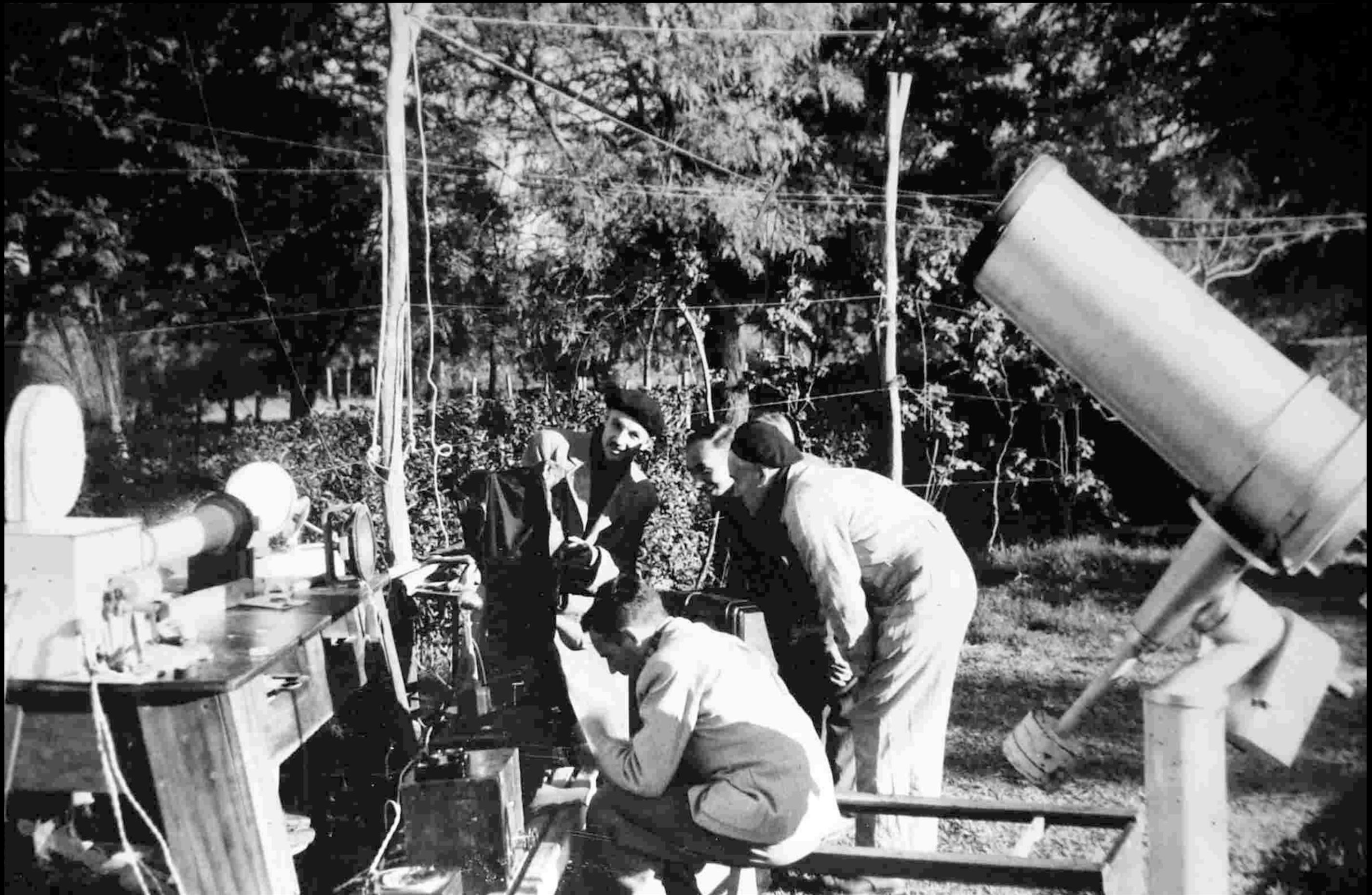


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Expedición a Soto, 20 de mayo de 1947



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Expedición a Corrientes, 20 de mayo de 1947



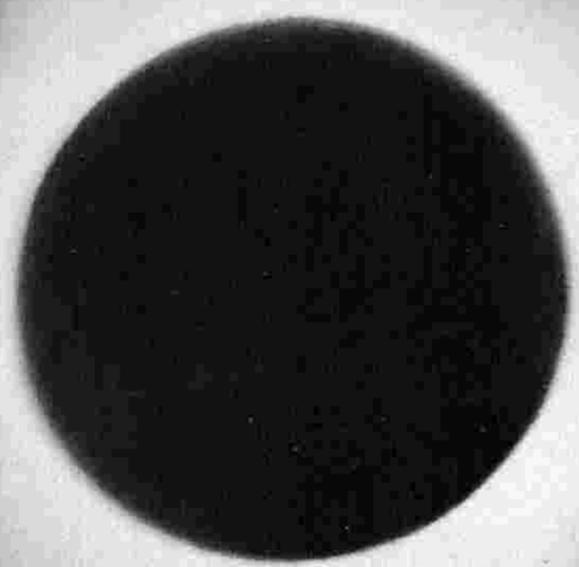
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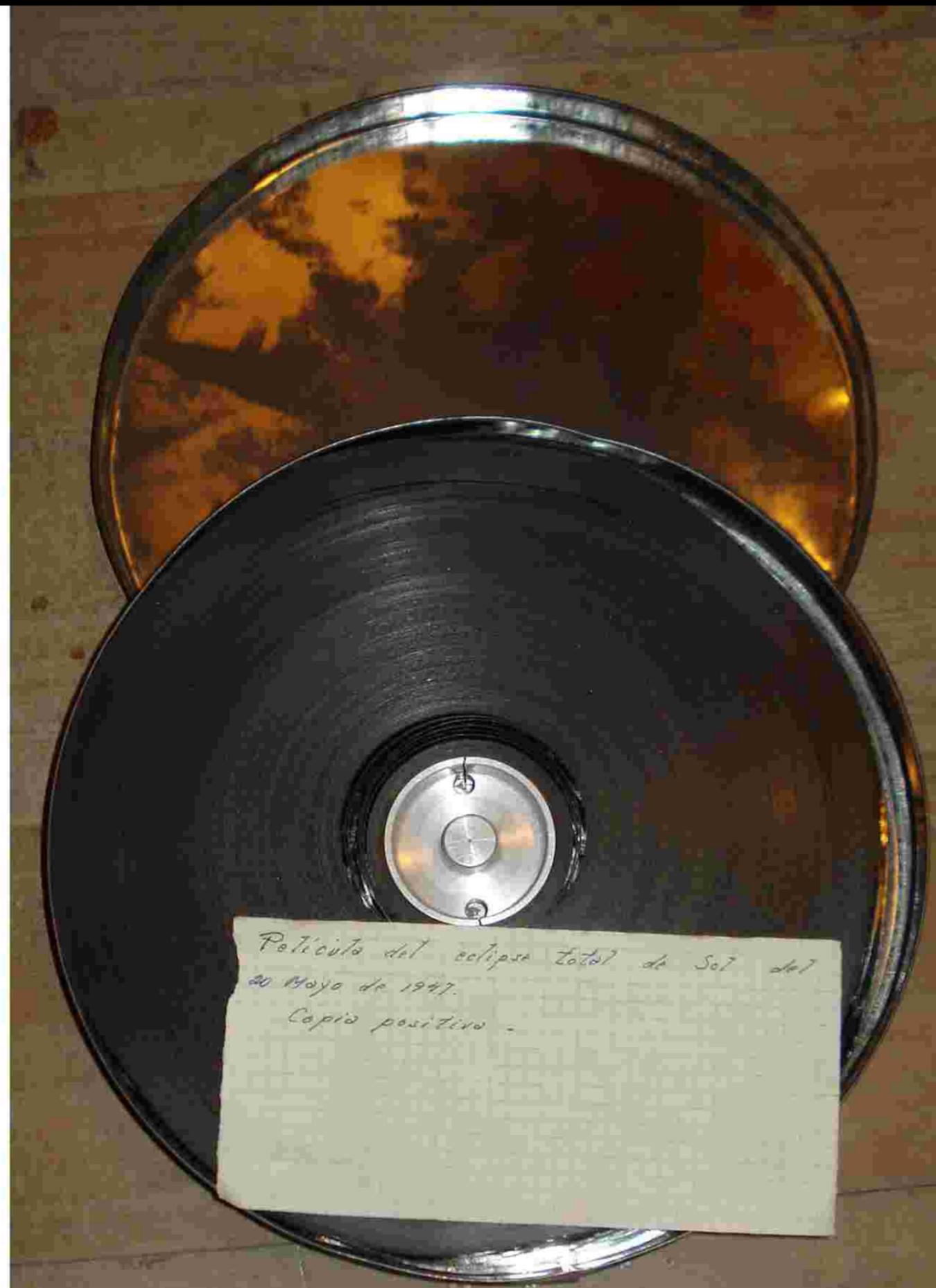
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*Película del eclipse total de Sol del
20 Mayo de 1947.
Copia positiva -*

Eclipse total de Sol del 20 de mayo de 1947



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