## An Extract

of a Letter, written by D. B. to the Publisher, concerning the prefent Declination of the Magnetick Needle, and the Tydes, May 23. 1668.

SIr, I here present you with a Scheme of the Magnetical Variations, as it was sent me by Capt. Samuel Sturmy, an experienced Seaman, and a Commander of a Merchant Ship for many

years; who (as he affures me) took the Observati-	Objerved June 13, 1668.							
ons himself in the presence of Mr. Staymred, an antient	Sun's Observ'd Astitude.		Magne- tical Azimuth.		Liuc		Variat. Wester- ly.	
Mathematician, & others, in Rownham-Meadowes by	Gr.	M.	Gr.	M.	Gr.	M.	Ğ.	M.
the water-side, in some	44		72	00		38		22
fuch approach, I think, to		30	80		78	24	I	36
Bristol, as Lime-house or	3 I	50	90	<b>o</b> c	88	26		34
the Fields adjoyning are to		43	95	00	93	36	[ :	24
London. This (as the		20	103	00	101	23	I	23
Table shews) was taken	)							
Fune 13. 1666. They ob-	_				_			

served again in the same day of the next year, viz. fune 13. 1667; and then they found the Variation increased about 6. mi-

nutes Westerly.

Now he promifeth to take the Observations in the same Company and Place, on the 13th. June next following, with a Quadrant of 6 foot radius, accurately divided into minutes, and with a very good Needle about 8, inches long; and he doubts not, but the Observations shall be as exactly made, as can be done by any Men in any place of the World.

He adds, that he has found in several places or Meridians, upon his own Observations, from 2. min. to 7. minuts some difference. In this Table he notes the greatest distance or difference to be 14. minutes; and so taking the mean for the true Variation, he concludes it then and there to be just 1. deg. 27. min. viz. fune 13. 1666:

The same person promisets an exact accompt concerning

Tydes there, according to the directions formerly given in the Transactions. At present he assure from many former Observations, that the biggest Spring-Tydes, and Annual Tydes there, are about the Aquinoxes, according as the Moon is near the Full, or Change, before or after that time. Of this you may expect a more perfect account hereaster.

## An Extract.

Of a Letter concerning an Optical Experiment, conducive to a decayed Sight, communicated by a Worthy person, who found the benefit of it himself.

I Am to acquaint you of an Experiment, if it may deserve that I name, and not rather that of a Trifle; the matter of which is known to many, but un-applied (for ought I know) to fuch use as it affords. And the use is to my self of greater value, than you'l eafily imagine, and I think, it may be equally profitable to many. Thus it is: you know, I have mourn'd for the loss of my eyes. I confess my unmanliness, that I have shed many tears in my study for want of them; but that was quite out of the way of recovering them. I know not, whether by standing much before a blazing Fire, or by writing often right before a bright Window, or what else might be the cause of this decay of my fight, who am not above 60 years of age. But I feem'd alwayes to have a kind of thick smoak or mist about me, and some little black balls to dance in the air about my eyes, and to be in the case, as If I came into a room suddenly from a long walk in a great Snow. But so it was, I could not distinguish the Faces of my acquaintance, nor Men from Women in rooms that wanted no light. I could not read the great and black English Print in the Church-Bibles, nor keep the plain and trodden paths in Fields or Pastures, except I was led or guided. I received no benefit by any Glasses, but was in the case of those, whose decay by Age is greater than can be helped by Spectacles. The fairest Prints seemed through Spectacles like blind Prints, litle black remaining.

Being in this sad plight, what trifle can you think hath brought me help, which I value more than a great Sum of Gold? Truly,

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