More Wayes

For the same Purpose, Intimated by M. Hook.

Have by me (faith Mr. H.) two or three several wayes of Meafuring the Diameters of the Planets, whether Horizontal, Perpendicular, or Inclined, to the exactness of a Second, by the help of a Telescope: As also, of taking the Position and Distance of the Small Fixt Stars one from another, or from any of the less bright Planets, if the Distance be not above two or three Degrees.

The Particulars hereof, the Author refers to the next Oppor-

tunity.

Observations

Of the Star, called Nebulosa, in the Girdle of Andromeda; and of the Wondrous Star in the Neck of the Whale: made and communicated by Monsieur Bullialdus.

A Nno 1667. in Fanuary, when the Cloudy and Misty weather, which had continued for a good while, did permit us to observe, the Star Nebulosa, in the Girdle of Andromeda (which may well enough be seen by the bare Eye) appeared much obscurer than the Year before. In the Months of February and March I did not see it.

Anno 1667, Fanuary 20. at Night, h. 6.30. the Sky being pretty serene, the Star in the Neck of the Whale, did approach to the bigness of a Star of the Sixth Magnitude, and grew bigger afterwards.

February 12, h. 6. 30'. I saw the same again, equalling now a Star of the Fourth Magnitude at least.

February 24, b. 7. This Star was equal to those of the Third Magnitude, shining very bright.

O 0 0 2

February

February'26, The same appeared yet to increase; as also February 27. But after this time I could not see it, by reason of the ill weather.

The same Astronomer did subjoin the following Extract of a Letter he received from Monsieur Hevelius, March 15, 1667

concerning (uch another Star; viz.

I have watched the New Star in the Neck of the Whale, as often as the weather would give me leave, which it hath done but feldom this Winter. In Fanuary, the 3, 4, 5, 7, and 13 dayes, it did not yet appear. From this time, the Sky was continually overcast till Fanuary 23. on which day, I found a little Star of the Sixth or Seventh Magnitude, about the same place where the said New Star uses to appear. But it then seemed to me not the genuine New Star, but another, to wit, preceding the New; whose Longitude hath been defined by me in Mercurius in Sole visus in Aries. gr. 25. 43'. 3". and the Latitude gr. 14. 41'. 32". South, Anno 1660. Then from fanuary 23, to February 2, it was Cloudy weather again; but this fecond of February, it appear'd very bright, and that when the Moon shone, of the bigness of that in the Mouth of the Whale, or Nodo Lini: from which time I alwayes observed it to grow bigger. March 13. Idid still find it extreamly bright, but could not by my naked Eye, because of the vivid Crepulcle, and the low fite of the Star, accurately determine its Magnitude.

I have received (faith he further) your two Monita ad Astro-See Numb. 22. of these nomos; and the Discourse hath much pleased me, Transactions, p. 381, you having not much deviated from the Truth. 382. where an account in respect of the Appearance. Heretofore I had is given of these two Monita of M. Buli- of this, and other New Stars, another Hypothesis; but I cannot thereby fo accurately divine the Ap-

pearances, as you will read more largely in its due place.