Date. 1876	Satellite.	Phase.	Washington mean time.	Weight.	Clear aperture of instrument.	Aperture employed.	Magnifying power.	Remarks.
June 28	II	Re.	11ʰ52ᵐ23ˢ0	2	3ᵐ25	3ᵐ25	175	First seen disconnectedly between passing clouds.
30	I	Re.	11.38.20.5	3	3.25	3.25	175	
July 23	II	Re.	9. 2.33.0	2	3.25	3.25	175	
28	III	Dis.	10.18.11.5	3	3.25	3.25	175	Moon 1ᵈ0 after first quarter, and 7⁰ from Jupiter. A possible thin cloudiness.
Aug. 24	I	Re.	8.27.51.0	2	3.25	3.25	175	Thin clouds shutting off perhaps one-sixth of the light.
24	II	Re.	8.52.45.0	3	3.25	3.25	175	An extremely thin cloudiness over the sky. — Satellite II reappeared a few seconds of arc distant from I. The two satellites were watched during the next half hour, during which they came nearer together. The planet then passed behind clouds. A contact of the disks [of the Satellites] may have taken place.
Oct. 15	III	Dis.	6. 7.15.0	2	3.25	3.25	175	Planet not occulted.

Naval Observatory, Washington, 30. January, 1878.

Names of the Satellites of Mars.

Since there is but little need of names for these satellites, I have delayed making a selection; but in order to avoid confusion, I have chosen the following names:

Deimus for the outer satellite.
Phobus for the inner satellite.

These names were suggested by Mr. Madan, of Eton, England. They occur in Book XV of the Iliad, line 119, where Ares is preparing to descend to the Earth to avenge the death of his son. — Bryant translates as follows:

„He spoke, and summoned Fear and Flight to yoke His steeds, and put his glorious armor on.“

I have computed approximate elements of these satellites. The values of the distances, when Mars is at the distance unity, and the values of the periods in mean solar days, are as follows:

Deimus.
$$a = 32''50$$
$$\text{Period} = 1.26250$$

Phobus.
$$a = 13''00$$
$$\text{Period} = 0.31894$$

The value of the mass of Mars which results from the distances and periods is

$$m = \frac{1}{3051000}$$

Washington 1878 Febr. 7   A. Hall.

Entdeckung zweier Planeten.

Herr Direktor Palisa meldet telegraphisch die Entdeckung des ⑱₄ Planeten:

1878 Februar 28   12ʰ53ᵐ mittlere Zeit Pola   11ʰ 2ᵐ56ˢ + 5⁰52′ Bewegung — 52ˢ + 8′ Grösse 11.

Aus Washington wurde der Berliner Sternwarte in der Nacht vom 2. auf den 3. März die Entdeckung des ⑱₅ Planeten wie folgt telegraphisch mitgetheilt:

Prof. Peters in Clinton kündigt die Entdeckung eines Planeten 10. Grösse an in:

α   δ
10ʰ43ᵐ + 11⁰50′ Bewegung nördlich.

Berlin 1878 März 4.   V. Knorre.