structure and convolutions of the jets issuing from it. From this time, to its final disappearance, the violence of action gradually calmed down, while the comet itself went southwards, and at length vanished from our horizon.

(46.) An idea of the actual dimensions of this comet may be formed from the measurements taken by Professor Bond on the 2d October, which, combined with the distance of the comets from the earth at that date afford the following results, viz.:—

Diameter of the bright in	iternal i	nellet or	nucleus		1,600
	3105	•		7.0	1,000
Distance from its centr	e to t	ne sum	imit of	the	
first envelope,	•	•	•	•	7,500
Distance to that of the s	econd e	nvelope,			13,200
Breadth of the brightest	: part c	of the to	il when	e it	
seemed (to the nak	ed eye)	to issu	e from	the	
comet,		•	7.	•	90,000

to which it may be added that the actual length of the tail, when at its greatest development, could not have been less than 30 millions of miles, and those of the faint streaks or secondary tails 34 or 35 millions.

(47.) The comet of 1861, which burst suddenly on us in its full splendour on the 30th of June in that year (though it had been seen for seven weeks before in the southern hemisphere), was considered by those who saw it at its first appearance to surpass in brightness even that of 1858, and was remarkable for the extreme breadth and diffusion of its tail when first seen, arising from the circumstance of the earth having been then situated nearly in its prolongation. Indeed, it is not impossible that on that day we actually traversed some portion of it, our