The evidences of an increase in the temperature of the interior are these: the higher temperature of the earth in all artificial excavations of considerable depth; the existence of thermal springs; and the existence and distribution of volcanoes.

Proof 1.—There are three sources of information from artificial excavations. 1. The temperature of springs which issue from the rocks in mines. 2. The temperature of the rock itself in mines. 3. The temperature of the water from Artesian wells. The following table gives many of the particulars:

TEMPERATURE OF SPRINGS IN MINES.

Countries.	Mines.	Depth in feet.	Tempera- ture.	Mean tem- perature at surface.	Depth in feet for one de- gree Fabren- heit,
Saxony	Lead and Silver Mine of Junghohe Birk do of Beschertgluck	256 712	49.9° 54.5	46.9° 46.4	102.4 87.
Brittany		128 197	58.4 54.	52.7 51.8	182. 89.5
Cornwall Mexico	Dolcoath Mine	1440 1718	82. 98.2	50. 68.8	45. 45.8
TEMPERAT	TURE OF THE ROCK IN MINES.				
1. In loose me	atter near the face of the rock.				00 -
Cornwall	United Copper Mines	1142 1201	87.4	50	80.5 81.1
10.7	Coal Pit of Ravin	597	88. 62. 8	52	55.8
Carmeaux, Fr	do of Castellan	680	67.1	52	40.8
2. In the rock	near its surface.				
	Mine of Beschertgluck	591	52.2		101.
•	do do do do	818 1246	59. 65.7	46.4	67. 64.4
3. Three feet	three inches within the rock.		i)		
	Dolconth Mine. Register kept 18				
	months	1881	75.6	50.	54. 81.3
Saxony	Lead and Silver Mine of Kurpinz do do do	413 686	59.6 62.5		42.6
18	do do do	1063	67.7		49.9
E. Virginia	Coal Mines	780	68.7	56.7	60.
TEMPERA	TURE OF ARTESIAN WELLS.				
	Barrier de Grenelle	1800	83.	51.1	50.
Paris, Fountain de St. Venant			57.2		49.
Tours			68.5	52.7	42.5 83.
La Rochelle Near Berlin, in Prussia			64.6 67.6	58.4 49.1	86.8
Louisville, Kv.	Trussit	675 2086	76.5	40.1	00.0
Charleston, S. C)	910	69.	82.3	64.
New Brunswick	k, N. J	394	54.	<u> </u>	72.

Artesian wells have lately been applied with success in Wurtemburg, to prevent frost from stopping machinery which was moved by running water, and also for warming a paper manufactory. Who knows but this application may prove of immense benefit to some regions of the globe?

The increase of temperature from the surface of the earth downwards does