NOTABLE ONES SINCE THE CHRISTIAN ERA-THEIR GREAT NUMBER AND FREQUENCY-JAVA 1883-PROBABLE CAUSE,

Between 6,000 and 7,000 separate carthquakes are recorded as having taken place at all parts of the globe between the years 1606 B.C. and

1850 A.D.

The most notable and remarkable are, Judea 31 B.C., which caused the death of to,000 persons, according to Josephus. That which occurred at the Crucifixion is said to be authenticated elsewhere than in the sacred records, and a darkness like the one there spoken of was also noticed on Jan. 22, 1835, in Central America. The earthquake of A.t. 63 resulting in the partial overthrow of Pompeii and Herculaneum, was followed sixteen years later by the bursting forth of Vesuvius, when the destruction was completed. Other notable earthquakes were 1—Italy 536 A.D., when 120,000 persons perished; Sielly 1693, when 60,000 people lost their lives. Gibbon says about 542 and preceding or following years, each was marked by repeated earth. 1850 A.D.

was marked by repeated earth-quakes, Constantinople being shaken for over forty days, and at Antioch, 250,000 persons are said to have perished. During this period the superior planets were in perihelion. The Arabian and Persian chronicles record one hundred and eleven earthquakes between the eighth and ninth centuries; some of these lasted seventy days, nearly all being accompanied by winds and floods. Readers of the "Relations des Jesuites" will probably remember the great earth-quakes spoken of which shook and tossed the earth all over Canada from Gaspé to Montreal for a space of six months during the year 1663. These earth-quakes rivalled the one in the Mississippi Valley in 1811. The severest carthquake ever remem-bered on the Atlantic coast In this region was that of November 1755, an echo of the convulsion that overthrew Lishon. On October 19, 1870, occurred the most considerable shock observed in North America during the present century. The source of this disturbance was traced to the volcanic region from 50 to 100 miles N. E. of Quebec. From that place it spread to St. John, N. B., thence was felt westward to Chicago and southward to New York. The velo-city of the wave was about 14,000 feet per second. The occurrence of the shock was teicgraphed to Montreal by operators of the Telegraph Company is time to eall attention of those in the latter city before the shock

reached them. lava is a seat of almost perpetual volcanic and earthquake activity, a great catastrophe took place there in 1772, but the most remarkable carthquake and volcanic emption for many

years past took place to August, 1883, commencing on the 25th of that month. North Bantam was covered with ashes, crops minest, roads and bridges destroyed. Tidal waves swamped the city of Batavia, and swept bridges destroyed. Ideal waves swamped the city of natavia, and swept across the Pacific Ocean, were noticed at San Francisco. The temperature of the sea off the coast of Java rose 30° owing to the steam ejected into the sea. Seventeen volcanoes were in active operation at one time. Fifteen watersponts were noticed together. The Island of Sering was completely initiated as a now flows over where it once stood. Seventy-five thousand lives, were estimated as having been leaves to request of roots of the search of the lost. A range of mountains entirely disappeared.

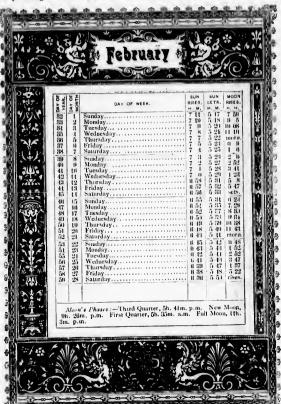
Earthquakes are very far from being of a rare occurrence. Hein having estimated that at least two occur on an average daily on the earth. At Calmi thirty-three have been felt in a single day. At Hondaras during the year 1856 one hundred and eight were counted in seven days. At Hawaii in 1868, two thousand occurred in a single month.

The greatest number of earthquakes are usually recorded about the middle of each century and a second epoch, less powerful than the first, arunity occurs about the close of

has not yet been definitely settled, some consider them results of severe cold, contracting the rocks; but most authorities at present ascribe them to the presence of underground lava, volcanoes very often becoming active at the same time. Professor Alexis Perry, of Dijon, traces a relation between earthquakes and the age of the moon. By very careful analysis he established the fact that earthquakes occur more frequently at perigee than at apo-gee, also their frequency increases at the syzygies and diminishes at the quadrates. "The shocks are generally experienced," he says, "when the Moon is on the Meridian." Perrey, another anthority, favors the theory and thinks the solar equinoxes and solstices give the largest number of shocks. Mallet found the of shocks. Mallet found the winter solstice to give the largest number.

"MINE OWN 'FAMILIAR' FRIEND,"—Prisoner (to Magis-trate)—"Well yer sec, Guy ner, me and my old gal——"
—Magistrate—"Stay! I cannot allow you to address the Bench In this familiar mamer."-Pri-soner-"1 beg your waship's pardon; but you and me has met so often lately that we seems quite like old friends,"

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