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Monograph of the earthquakes of Ischia, a memoir dealing with the seismic disturbances in that island from remotest times, with special observations on those of 1881 and 1883

Johnston-Lavis, Henry James

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Explanation of plates.

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EXPLANATION OF PLATES

- PHOTOGRAPH I. Panorama of Casamicciola taken from near Frasso after the earthquake of March 4th 1881. (1)
- PHOTOGRAPH II. Blank gateway in the Via Roma, Casamicciola. The photograph shows two columns broken off; one has fallen, whilst the other has rotated on its base (2).
- PHOTOGRAPH III. Entrance to Menella. Looking due E. with the parish church of Casamicciola in the background. Taken just after the earthquake of 1881.
- PHOTOGRAPH IV. The two portions of the Villa Balsamo. Looking towards N.W. with Monte Vico in the distance. 1883. (3)
- PHOTOGRAPH V. Ruins of the Monte della Misericordia. Looking nearly due W. The Piccola and Grande Sentinella on the hill to the right. The entrance to the Piazza di Majo to the left. 1883. (4)
- PHOTOGRAPH VI. Church of the Madonna dell'Assunta, Piazza dei Bagni, Casamicciola. Looking nearly due W. 1883.
- PHOTOGRAPH VII. Chimney of the Stabilimento Belliazzi, Casamicciola. Looking nearly N. The ruins of the Monte della Misericordia in the background. 1883.
- PHOTOGRAPH VIII. Blank gateway in the Via Roma, Casamicciola, the same as seen in Photo. II., with which it should be compared. This view includes a little more of the road. 1883.
- PHOTOGRAPH IX. The Hotel Piccola Sentinella, Casamicciola. Looking nearly N. W. 1883. The salon was beneath the ruins seen at the right extremity of the building. 1883.

(1) All these photographs were taken soon after the catastrophe. Many of those for sale show more the result of the dynamite used to bring down the tottering walls than the effect of the earthquake, being taken some days or weeks after the event.

(2) The white spots on the wall are sunbeams traversing the trees opposite.

(3) For *dis* read *phot.*

(4) For *dis* read *phot.*

- PHOTOGRAPH X. Villa di Majo ; looking nearly due E. 1883. Observe the large number of iron tie-bars inserted after the earthquake of 1881. Much of the building has fallen, and as the emergence was high, all the floors and ceilings were destroyed, resulting in the loss of many lives.
- PHOTOGRAPH XI. Piazzo di Majo and district just N. of it; looking about W. S. W. Searching for wounded and dead. 1883.
- PHOTOGRAPH XII. Casamenella; looking S. E. 1883. Exhibits the degree of destruction in the mesoseismal area.
- PHOTOGRAPH XIII. The church of St. Rosario at Lacco ; looking nearly due N. 1883. It was undergoing repairs for damage done in 1881.
- PHOTOGRAPH XIV. Main street of Upper and E. Lacco; looking from near St. Rosario eastwards. The Grand Sentinella is seen on the hill in the distance. 1883.
- PHOTOGRAPH XV. Northern end of the Grand Sentinella ; looking about S. E. The interior had already been cleared out in search of dead when the photograph was taken. 1883.
- PHOTOGRAPH XVI. The church of S. Sebastiano , Forio ; looking nearly due E. The ruins of the steeple are hardly visible from the deep shadow. On my returning to the locality to obtain a better photograph the roadway had been cleared. 1883.
- PHOTOGRAPH XVII. Side entrance to the Villa Pezzillo ; looking towards 30° W. of N.
- PHOTOGRAPH XVIII. Gate of the Villa Gastaldi some distance N. of the Villa Calitto (Pezzillo); looking nearly due W. The ruins of the Villa are seen through the gate. 1883. This photograph is intended to show the rotation of the tops of each gate pillar.
- PHOTOGRAPH XIX. Panorama of Casamicciola from near Frasso, looking nearly N. After the earthquake of July 28th. 1883.
- PHOTOGRAPH XX. View of the two landslips above Fango from Mezzavia, looking about S. S. E. Panella is seen to the left. 1883.
- PLATE I. FIGURE 1. Gateway of garden of the Villa Maresca showing displaced pillar stone and falling of one half of the gate. 1881.
- FIGURE 2. Blank gateway in the Via Roma (Photo. II)
A. Front elevation.
B. Side elevation.
C. Details of pillar.
D. Plan of rotation of broken pillar. 1881.
- FIGURE 3. Direction post, at the junction of the Via Roma and Via Sassola, broken at the level of the side walls. 1881.
- FIGURE 5. Staircase at the back of the old Municipio. 1881.
- FIGURE 6. Diagram of the fractures in the Masseria della Torre. 1881.

- FIGURE 7. Diagram of injuries in house of the Strada Castanito. 1881.
- FIGURE 8. Front elevation and plan of entrance to the Masseria Chiappa.
a. Dropped key stone
b. Fractures. 1881.
- FIGURE 10. Roofs at Fontana.
A. As seen from below.
B. Diagrammatic vertical section. 1881.
- FIGURE 12. Peculiar fracture and bending of a wall. 1883.
- PLATE II. FIGURE 4. Side elevation of staircase and fallen flower vase at the Piccola Sentinella. 1881.
- FIGURE 9. Chimney of the Masseria Spadara.
A. Under side of cap showing white marks where it rested on the pilasters before and after the earthquake.
B. Side view. 1881.
- FIGURE 11. Fallen flower vases and wall of road near the Villa Sauvé.
A. Side elevation.
B. Plan.
C. Details of flower vase. 1883.
- FIGURE 13. Chimney at Monterone showing displacement of cap and removal of two covers from the smoke apertures. 1883.
- FIGURE 14. Plan, to scale, of S. Maria di Loretto at Forio. The fissures are as seen in roof when looked at from below. The cross-hatched square at the right lower corner was the situation of the tower containing the bells which fell to the E. and crushed in the roof. 1883.
- FIGURE 15. Displaced picture.
A. Front elevation before earthquake.
B. Same after earthquake.
C. Side elevation before earthquake.
- PLATE III. Map of the island of Ischia, showing azimuths, isoseismal curves, and probable plan of the fissure of the earthquake of March 4th. 1881. Also the thermo-mineral springs and fumaroles of the island. Scale 1:25,000. The position of the section in PLATE VI. is indicated by the thick black line.
- PLATE IV. Map of the island of Ischia showing azimuths, isoseismal curves, and probable plan of the fissure of the earthquake of July 28th. 1883. Scale 1:25,000. Also the three principal landslips. In both PLATES III and IV, the numbers correspond to those of each observation in the text.

PLATE V. FIGURE 1. Diagram of emergence of wave-paths of the earthquake of 1881.

FIGURE 2. Diagram of emergence of wave-paths of the earthquake of 1885.

The vertical thick black lines, from the top of which the inclined ones start, indicate the height above mean sea level of each locality of observation.

In both figures the numbers correspond to those of the observations in the text and in the two corresponding maps in Plates III and IV.

PLATE VI.

Diagrammatic section of the island of Ischia through the plane of fracture (See Plate III). True scale of 1:25,000, both vertical and horizontal. The mean limits only of the focal cavity are here indicated, the real limits should therefore be greater for each earthquake.

