

metamorphism, are well displayed in the Apuan Alps and in the Apennines.⁸⁸

Cretaceous.—Greece.—Chlorite-schist, mica-schist, marble, serpentine, etc.; believed to be altered Cretaceous sandstone, shale, limestone, etc. (see above).

Coast range of California.—Strata containing Cretaceous fossils pass into jaspers, siliceous slate (phthaniates), glaucophane-schist, garnetiferous mica-schist, serpentine, etc.⁸⁹

Jurassic.—Alps.—Sericite-schists, altered limestones, etc. (p. 1033).

Sierra Nevada (California).—Clay-slates, talcose slates, serpentine, etc., passing into rocks containing Jurassic fossils.⁹⁰

Trias.—Sierra Nevada (Spain).—Clay-slate, mica-schists, talc-schists, and limestones.⁹¹

Carrara.—Mica-schist, talc-schist, marbles, passing down into limestones containing *Encrinus liliiformis*, *Phylloceras*, *Pentacrinus*, below which lie gneissic and other schists inclosing *Orthoceras*, *Actinoceras*, and evidently of Palæozoic age.⁹²

Alps.—Limestones, dolomites, and gypsums rendered crystalline, associated with calc-mica-schist and other varieties of schist.

Carboniferous.—Alps.—Graphite-schist, phyllite-gneiss, etc. (p. 1033).

Eastern Brittany.—Carboniferous shales altered into crystalline schists.⁹³

Devonian.—Taunus.—A large series of crystalline schists (p. 1030).

Ardennes.—Crystalline schists with garnet, hornblende, mica, etc. (p. 1028).

Silurian.—Norway.—A series of schists resembling those

⁸⁸ Lotti and Zaccagna, Boll. Comit. Geol. d'Italia, 1881, p. 5. Lotti, ibid. p. 419, Bull. Soc. Geol. France, xvi. 1888, p. 406.

⁸⁹ Whitney, Geol. Surv. California, "Geology," vol. i. p. 23. G. F. Becker, Amer. Journ. Sci. xxxi. 1886, p. 348; "Geology of the Quicksilver Deposits of the Pacific Slope," Monograph No. xiii. of U. S. Geol. Survey, 1888.

⁹⁰ Whitney, op. cit. p. 225.

⁹¹ De Verneuil, Bull. Soc. Geol. France (2), xiii. p. 708. R. von Drasche, Jahrb. Geol. Reichsanst. xxix. 1879, p. 93. The identification of these rocks with Triassic beds is a probable conjecture.

⁹² Coquand, Bull. Soc. Geol. France (3), iii. p. 26; iv. p. 126. Zaccagna, Boll. Com. Geol. Ital. xii. 1881, p. 476. Lotti, op. cit. p. 419 and plate ix.

⁹³ Jannettaz, Bull. Soc. Geol. France (3), ix. 1881, p. 649.