

GEOLOGICAL SURVEY OF CANADA

ON DRYPTOSAURUS INCRASSATUS (COPE), FROM THE EDMONTON SERIES OF THE NORTH-WEST TERRITORY.

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Since 1824 when *Megalosaurus* was first described by Buckland * our knowledge of the osteology of the carnivorous dinosaurs has been increasing slowly yet with encouraging surety. For this knowledge, so laboriously gained, we are indebted to many enthusiastic workers on both sides of the Atlantic, amongst whom, have been, and are at the present time, some of the most noted and eminent men whose names are inseparably linked with the progress of vertebrate palaeontology.

A splendid advance was made when Marsh in 1884 published his description of *Ceratosaurus nasicornis* ** from the Upper Jurassic of Colorado. Much that had previously been either little known or imperfectly understood, regarding the structure of the skull, was then made clear. The finding of moderately well preserved skulls of carnivorous dinosaurs has been of such rare occurrence or the parts discovered have generally been so fragmentary, that the reconstruction of the entire skull of so large and interesting a form as *Ceratosaurus* was of the greatest importance even without considering the almost complete knowledge gained of the remainder of the skeleton of that species.

Nearly related to *Ceratosaurus* is the Upper Cretaceous *Dryptosaurus* *** the type of which Cope's *Laelaps aquilunguis* † from the Greensand of New Jersey, was first described in 1866. Another species of *Dryptosaurus* is the western form *D. incrassatus*, †† from the uppermost beds of the Cretaceous system (Edmonton series), described by Cope at a later date. Another form from a lower horizon than *Dryptosaurus*, and probably generically distinct, is the imperfectly known *Deinodon* ††† of Leidy from the Judith River beds of Montana and the Belly River series of the Canadian North-west Territory (Red Deer river, District of Alberta).

* Notice on the Megalosaurus or great Fossil Lizard of Stonesfield, by the Rev. William Buckland, F.R.S., F.L.S. Transactions of the Geological Society, London, second series, vol. 1, p. 390, pls. XL-XLIV.

** Principal characters of American Jurassic Dinosaurs, part VIII, The Order Theropoda. American Journal of Science and Arts, third series, vol. XXVII, p. 329.

*** American Journal of Science and Arts, third series, Vol. XIV, p. 88, 1877. In a foot note Marsh here proposes the name *Dryptosaurus* to replace *Laelaps*, Cope, preoccupied.

† Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. XVIII, p. 276, 1866.

†† On the Skull of the Dinosaurian *Laelaps incrassatus*, Cope. Proceedings of the American Philosophical Society, Vol. XXX, p. 240, 1892.

††† Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. VI, p. 72, 1856.