

**Some farther account of the fossil remains of an animal, of which a description was given to the Society in 1814 / by Sir Everard Home.**

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SOME  
FARTHER ACCOUNT OF THE FOSSIL REMAINS  
OF AN ANIMAL,

OF WHICH  
A DESCRIPTION WAS GIVEN TO THE SOCIETY IN 1814.

BY  
SIR EVERARD HOME, BART.  
V. P. R. S.

FROM THE  
PHILOSOPHICAL TRANSACTIONS.

LONDON:

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*By Order of the President and Council,*

W. H. WOLLASTON, M. D. Sec. R. S.

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## SOME FURTHER ACCOUNT, &c.

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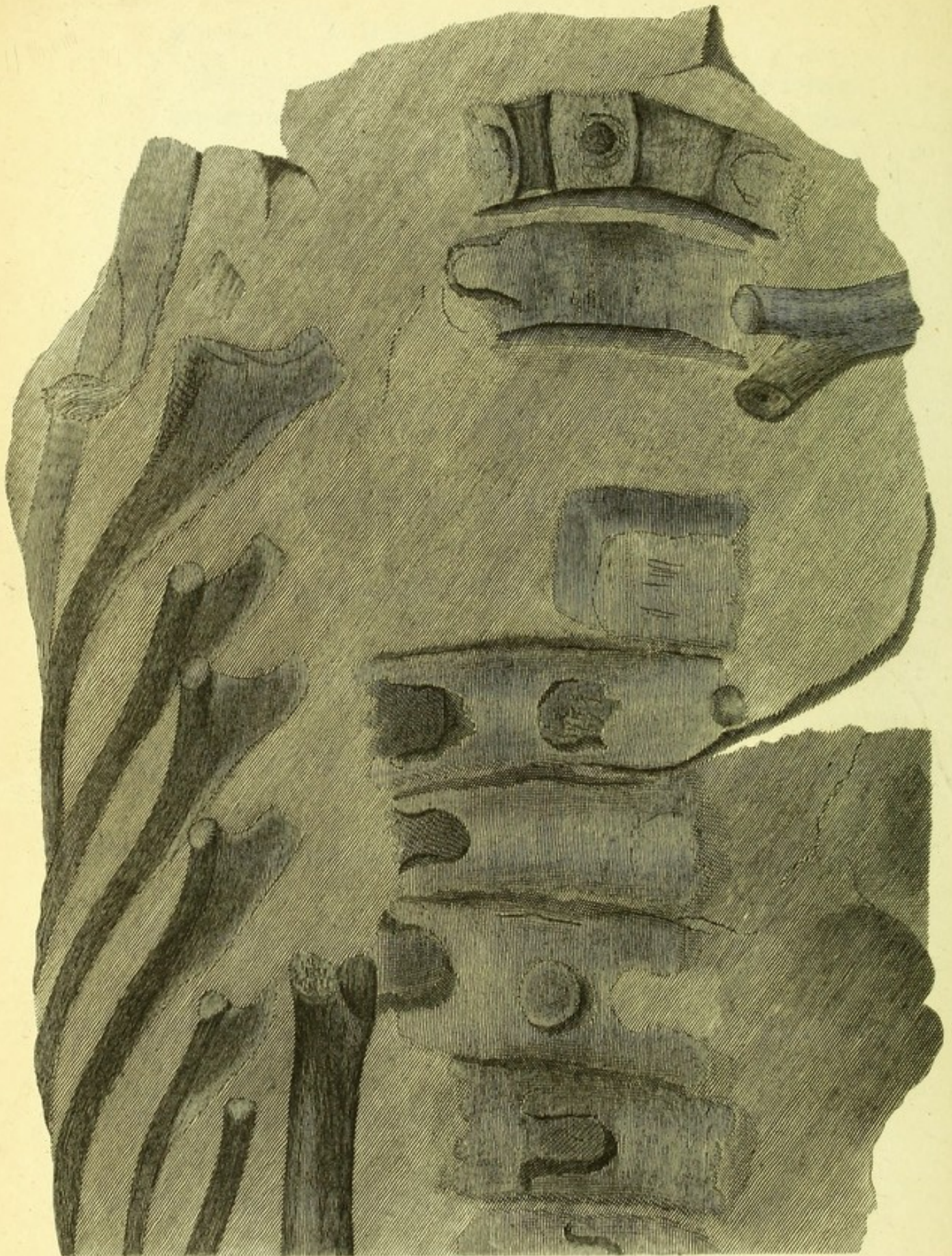
*Read before the ROYAL SOCIETY, June 13, 1816.*

FOR the materials of the former Paper I was indebted to Mr. BULLOCK, who has in his possession the skull, a great number of the vertebræ, many mutilated ribs, and other bones of this animal, in a fossil state.


These now brought forward are in the collections of the Rev. Mr. BUCKLAND, of Corpus Christi College, Oxford, and of Mr. JOHNSON of Bristol, who have very kindly allowed me to make use of them upon this occasion. Mr. JOHNSON has been a collector of specimens of fossil remains for 25 years; during several summers, he devoted five or six weeks at a time to a close inspection of the cliffs and beach at Lyme. In the summer of 1814, with the assistance of a friend, at great personal risk, he dug out of the cliff, the bones of the pectoral fin; the single bone, he states, was immediately connected with the scapula, and was imbedded in marle; a representation is annexed.

From these valuable specimens I am enabled, in a great measure, to complete the account of the skeleton of this very extraordinary animal, and, what is of infinitely more consequence, to determine the class to which it belongs.





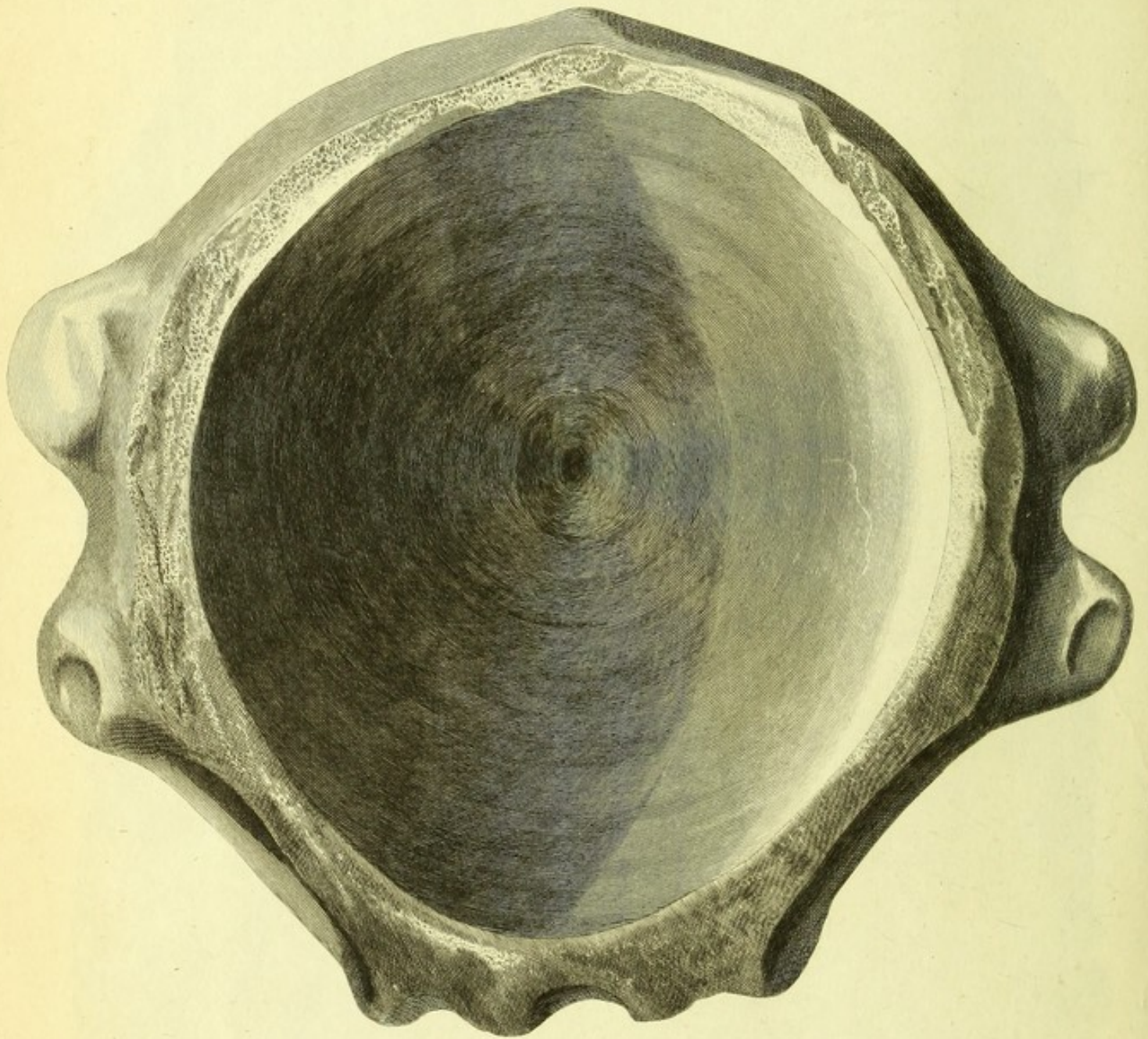




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texture, the fibrous appearance of the scapula, arising from a mode of growth only met with in the bones of fishes.

The drawings annexed to this and to the former Paper, represent the principal bones composing the skeleton of this very extraordinary animal, and they correspond sufficiently with those of fishes, to remove all doubt of its having been a fish, but different from any fishes now in existence; for although the pectoral fins bear a certain resemblance to those of the shark, there is none between many of the other parts, particularly the long projecting snout and the conical teeth.

In truth, on a due consideration of this skeleton, and of that represented in the 13th vol. of the An. Mus. p. 424, we cannot but be inclined to believe, that among the animals destroyed by the catastrophes of remote antiquity, there had been some at least that differ so intirely in their structure from any which now exist, as to make it impossible to arrange their fossil remains with any known class of animals.

#### EXPLANATION OF THE PLATES.

The drawings were taken from specimens of bones in very different stages of growth, but undoubtedly belonging to the same species of animal.

#### PLATE XIII.

Shows the manner in which the ends of the ribs correspond with the impressions on the vertebræ formed to receive them. The parts of the natural size. From a specimen of the Rev. Mr. BUCKLAND.

#### PLATE XIV.

A single vertebra of the natural size: it shows that the



animal grows to a large size, and points out the particular parts of the circumference to which the rib is attached. From a specimen of the Rev. Mr. BUCKLAND.

PLATE XV.

Fig. 1. Shows the scapula in a more perfect state than in the plate belonging to the former Paper; the spine, which in the other specimen was broken off, in this is in its place, although very nearly detached; it also shows the bone intermediate between the scapula and the small bones of the fin, with some of these bones on a scale of four inches to a foot. From a specimen of the Rev. Mr. BUCKLAND.

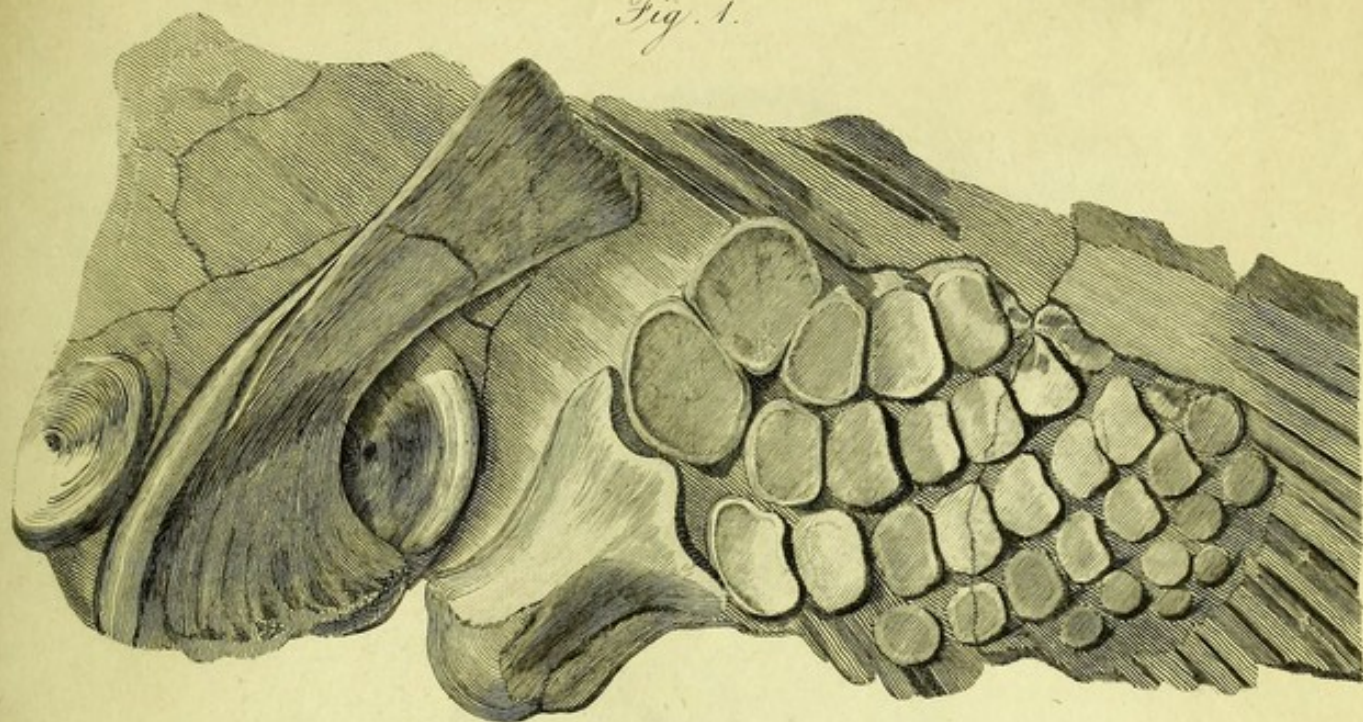
Fig. 2. The scapula and bones of the pectoral fin in the *squalus acanthus*, natural size.

PLATE XVI.

The bones of the pectoral fin, natural size. From a specimen of Mr. JOHNSON.



*Fig. 1.*



*Fig. 2.*

