

SUPPLEMENTARY ONLINE MATERIAL FOR

Ichthyosaurid *Ichthyosaurus anningae* (Ichthyosauria) from the
Pliensbachian, Early Jurassic of Asturias, Spain: filling gaps

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Supplementary Online Material

SOM 1. Table 1. Measurements of the skull, humerus, and teeth of MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian.

Fig. 1. Skull and mandible of *Ichthyosaurus anningae* MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian.

Fig. 2. Left and right jugals of *Ichthyosaurus anningae* MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian.

Fig. 3. Comparative epipterygoids: *Ichthyosaurus anningae* (MUJA-3558) and *I. communis* (NHMUK-R1168).

SOM 2. Character–taxon matrix nexus file

available at http://app.pan.pl/SOM/app71-Fernandez_etal_SOM/SOM_2.tnt.nex

SOM 3. Character–taxon matrix TT file

available at http://app.pan.pl/SOM/app71-Fernandez_etal_SOM/SOM_3.tnt

Table 1. Measurements (in mm) of the skull, humerus, and teeth of MUJA-3558 {from locality, age}.

Comparative measurements of *I. anningae* (from Lomax and Massare 2015: table 1) and *I. somersetensis* (from Lomax and Massare 2017: table 2). * estimated

	<i>Ichthyosaurus anningae</i>				<i>Ichthyosaurus somersetensis</i>		
	MUJA-3558	DONMG 1983.98	NMW G.1597	NHMUK OR 120	ANSP 15766	NHMUK OR2013*	NLMH 106234
Skull	63*				43.0	47.0	57.5
Preorbital	44	24.0	19.3	17.3	28.0	30.5	40.0
Prenarial	37				21.0	31.1	33.3
Jaw		38.4	32.0	27.1	47	53	64
Snout Ratio		>0,63	0.60	0.64			
Humerus length	7.4	5.1	4.24	2.81	8.8	9–10	10.4
Humerus distal width	6.1	4.10	2.97	2.49			
	Tooth 1	Tooth 2	Tooth 3				
total height	26	35.2	36.4				
crown height	8.4	9.9	8.5				

Lomax, D.R. and Massare, J.A. 2015. A new species of *Ichthyosaurus* from the Lower Jurassic of West Dorset, England, U.K. *Journal of Vertebrate Paleontology* 35: e903260.

Lomax, D.R. and Massare, J.A. 2017. Two new species of *Ichthyosaurus* from the lowermost Jurassic (Hettangian) of Somerset, England. *Papers in Palaeontology* 3: 1–20.

Fig. 1. Ichthyosaurid *Ichthyosaurus anningae* MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian. Reconstruction of the skull and mandible. Scale bar equals 10 cm.

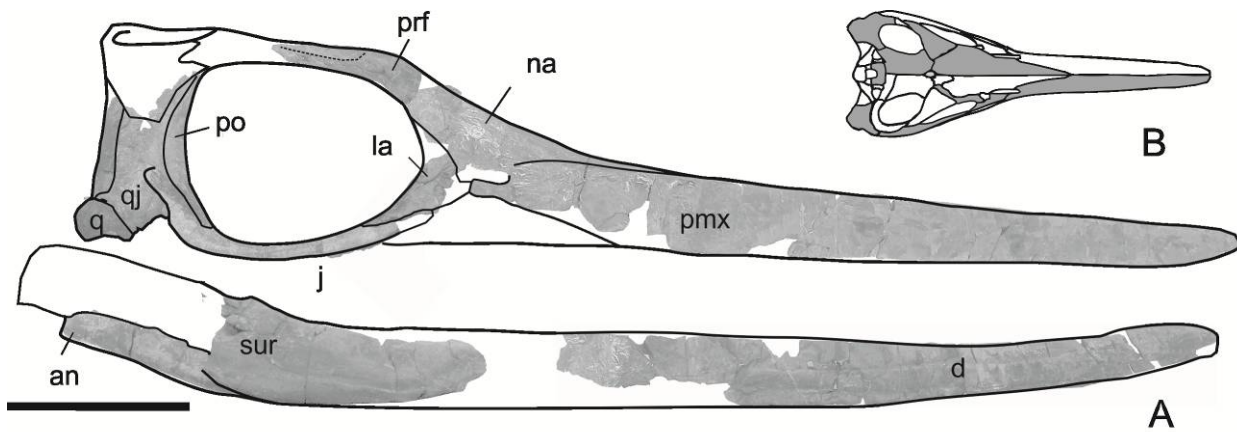


Fig. 2. Ichthyosaurid *Ichthyosaurus anningae* MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian. Dorsal view of both jugals. A, left jugal; B, right jugal. Scale bar equals 10 cm.



Fig. 3. Comparative photos of epipterygoids in ichthyosaurids. A. *Ichthyosaurus anningae* MUJA-3558, Vega Beach, Asturias (Spain), lower Pliensbachian; B. *Ichthyosaurus communis* (NHMUK-R1168), Dorset (England) Hettangian-Sinemurian. Modified from McGowan (1973: pl. 2b).

