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SUPPLEMENTARY ONLINE MATERIAL FOR

Cranial anatomy and stratigraphy of a new specimen of *Daspletosaurus* from the Judith River Formation of Central Montana, USA

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Supplementary Online Material

SOM. Postcranial measurements (in cm) of *Daspletosaurus* CMC VP15826

Vertebral dimensions – preservational distortions render all dimensions approximate

Axis height	33					
Axis centrum length	9.5					
Axis centrum width	11					
C3	height	40.5	length	12	width	10
C4	height	41	length	9.5	width	9
C8	height	27.5	length	7.5	width	11.5

There appear to be 9 cervical vertebrae, although the transition to dorsals is an arbitrary one. The 9th cervical rib, assuming its position is properly determined, has an obvious pneumatopore.

Presacral 11/D2?	height	36.5	length	7	width	16
P12/D3?	height	39.5	length	9	width	13.5
P13/D4?	height	38	length	10.5	width	13
P14/D5?	height	40.5	length	10	width	14
P15/D6?	height	40	length	11	width	13.5
P16/D7?	height	40	length	12	width	12
P18/D9?	height	40	length	10	width	13

P19/D10?	height	41	length	10	width	14
P20/D11?	height	41.5	length	10	width	15.5
P21/D12?	height	43	length	11	width	16
P22/D13?	height	46.5	length	12.5	width	16

Rt cervical rib 3	length	40	head width	5
Rt cervical rib 8	length	-	head width	10
Rt cervical rib 9	length	-	head width	14.5
Lft cervical rib 4	length	41	head width	6
Lft cervical rib 6	length	-	head width	10

Rt dorsal rib 2	length (from tuberosity to tip along shaft)	-	head width	~ 22
Rt dorsal rib 3	length	~ 105	head width	~ 27
Rt dorsal rib 4	length	-	head width	29.5
Rt dorsal rib 5	length	126	head width	25
Rt dorsal rib 6	length	-	head width	26
Rt dorsal rib 7	length	-	head width	27
Rt dorsal rib 8	length	-	head width	23.5
Rt dorsal rib 9	length	101	head width	22.5
Rt dorsal rib 10	length	82	head width	19
Rt dorsal rib 11	length	69	head width	17
Rt dorsal rib 12	length	~61	head width	19
Rt dorsal rib 13	length	53	head width	19

Mid-sacrum with across centra ~16
 Sacrum length along neural spines 76

Furcula length approx. 46 (estimated from preserved left half)

Rt scapulocoracoid length	105	width through glenoid	21.5
Rt scapula width at distal end	16.5	at narrowest point (base of blade)	7
Lft scapulocoracoid length	114	width through glenoid	22
Lft scapula width at distal end	~15	at narrowest point (base of blade)	7

Rt humerus	length	34	width at distal condyles	9	at midshaft	6
Lft humerus	length	38	width at distal condyles	9	at midshaft	6
Deltopectoral crest length	8 (right)	7 (left)				
Rt ulna	length	21.5	width at midshaft	4		
Lft ulna	length	20	width at midshaft	4		
Rt radius	length	16	width at midshaft	4		

Rt mcI	length	8	width	4.5
Rt mcII	length	11	width	4
Lft mcI	length	8	width	3.5
Lft mcI	I length	10	width	3.5
Rt proximal manual phalanx DII	length	6.5	width	4
Rt manual digit II phalanx 2	length	8.5	width	3
Lft proximal manual phalanx DI	length	14.5	width	3.5
Lft proximal manual phalanx DII	length	6	width	4

Rt ilium	length 108	iliac blade depth	33	posterior margin depth	20
Rt acetabulum	length ~22				
Lft ilium	length 111	iliac blade depth	34	posterior margin depth	22
Lft acetabulum	length 29				
Lft ischium	length	96.5	max dorsoventral width	33.5	
Lft femur	length	97	width at midshaft	12.5	
Lft tibia	length	82	width at midshaft	12	
Lft fibula	length	73.5	width at midshaft	5.5	
Lft astragalus	height 21	width 19	combined width of proximal tarsals 23		
Lft mtI	length	9			
Lft mtII	length	45.5	width at midshaft	9	w proximal 14 w distal 9
Lft mtIV	length	46	width at midshaft	8	w proximal 10 w distal. 9
Lft mtV	length	22			
Lft pedal digit I phalanx 1	length 9	w midshaft 3	w proximal 3	w distal 2.5	
Lft pedal DI P2 (ungual)	length 9	width at midshaft 2.5	width proximal 2.5		
Lft pedal DII P1	length 13.5	width at midshaft 5	w proximal 8	w distal 6.5	
Lft pedal DII P2	length 8.5	width at midshaft 4.5	w proximal 7	w distal 5.5	
Lft pedal DII P3 (ungual)	length 12	width at midshaft 4	width proximal 4		
Lft pedal DIII P1	length 15	width at midshaft 5.5	w proximal 9	w distal 8	
Lft pedal DIII P2	length 10.5	width at midshaft 5	w proximal 7	w distal 6.5	
Lft pedal DIII P3	length 8.5	width at midshaft 4.5	w proximal 6	w distal 5	
Lft pedal DIV P2	length 8	width at midshaft 6	w proximal 7.5	w distal 6.5	
Lft pedal DIV P3	length 5	width at midshaft 5.5	w proximal 6	w distal 5.5	
Lft pedal DIV P4	length 3	width at midshaft 5	w proximal 5.5	w distal 4	
Lft pedal DIV P5 (ungual)	length 11	width at midshaft 3.5	width proximal 4		