# ZIC PARIS FIELDS (commonly used)

FIELD NAME Use by ZIC CL class ORD order FAM family SUBFAM subfamily GEN genus SP species SPA "cf." or "or"

VAR variety - use to add domestic

 SPEG
 body region

 SPENM
 name of element

 SPEPS
 position

 SPECNM
 common name

 SPEP
 part

SPEAA x-mend and f-frag

SPENA artificat

IDR i.d. by

IDREM remarks related to identification

QTY quantity SEX sex SEXREM sex remarks AG age AGREM age remarks EXPT condition PATH pathology BURN burning TOOTH tooth marks CUT cuts

WT weight
LET total length
STL stratigraphic position
STREM stratigraphic remarks
HD horizontal datum
VD vertical datum
CN cat. no.

AN ZIC site reference no.

ASSN remarks

XR reference to specimen in collection

ZBN borden number (site no.)

ZNA site name

ZNAA alternative site name - Parks Canada

 ZLOC
 site location

 ZPR
 province

 ZDAT
 dates

 ZCU
 culture

 ZFE
 cultural features

 ZREM
 comments

ZLU local reference numbers

## Entry Rules for Upper and Lower Case and Punctuation

FIELD NAME DESCRIPTION OF RULES

CL (class) upper case for first letter and no punctuation ORD (order) upper case for first letter and no punctuation FAM (family) upper case for first letter and no punctuation SUBFAM (subfamily) upper case for first letter and no punctuation GEN (genus) upper case for first letter and no punctuation

SP (species) lower case and no punctuation

SPECNM (common name) lower case ie. lake trout

only punctuation used is hyphen ie. blue-winged teal upper case for first letter of proper name ie. Atlantic cod

SM small mammal

MM medium mammal LM large mammal

MLM medium large mammal SMM small medium mammal UM unidentified mammal

SB small bird MB medium bird LB large bird

MLB medium large bird SMB small medium bird LIB unidentified hird SF small fish MF medium fish LF large fish UF unifentified fish

CU class uncertain or unidentified class

IDR (I.D. by) use upper case and no punctuation ie. DB

STL (providence field) varies with each site HD (providence field) varies with each site STREM (providence field) varies with each site VD (providence field) varies with each site

AN (ZIC site reference no.) integer

ZBN (borden number) varies with each site ie. BcGr-1 where B(upper) c(lower) G(upper) r(lower) -(hyphen) 1(integer)

CN (cat. no.) varies with each site

ZNAA (alternate site) varies with each site ie. 25G

1H

lower case and period after cf ie. cf. SPA

cf.:or

lower case ie domestic VAR (variety)

SPEG (region) lower case and no period after abbreviation ie. pvg

lower case and no period after abbreviation ie. ax SPEPS (position)

SPEP (part) lower case except for L. or R. and names of teeth ie. 1P2

use period after abbreviation ie. mid. .5

lower case and no punctuation ie. of entries a AG (age)

a/va

j; >6 months

AGREM (age remarks) lower or upper case and punctuation used

SEX lower case and no punctuation

SEXREM (sex remarks) lower or upper case and punctuation used

lower case ie. oth use ";" to separate entries ie. fra;teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use "," in comments section ", : - " etc. PATH (pathology) BURN (burning) lower case ie. oth use ";" to separate entries ie. fra;teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc. CUT (cuts) lower case ie. oth use ";" to separate entries ie. fra;teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc. SPENA (artifact) lower case ie. oth use ";" to separate entries ie. fra; teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc. EXPT (condition) lower case ie. oth use ";" to separate entries ie. fra; teeth but do not use ";" in the comment section ie. bu; mr; meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc. TOOTH (tooth marks) lower case ie. oth use ";" to separate entries ie. fra; teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc. SPEAA (matched pieces) lower case ie. oth use ";" to separate entries ie. fra;teeth but do not use ";" in the comment section ie. bu;mr;meat removal cut?, scars on shaft from hacking for butchery, do not use ";" in comments section ", : - " etc.

ZREM (comments) upper or lower case, punctuation is used remarks if not down to species level XR (cross reference to ZIC specimen) upper or lower case, punctuation is used remarks if not down to species level IDREM (remarks) upper or lower case, punctuation is used remarks if not down to species level ASSN (remarks) remarks on size to spe upper or lower case, punctuation is used remarks if not down to species level

LET (total length) integer or real number only

GENERAL

DESCRIPTION HANDWRITING FIFI D NAME taxonomic endings ORD

FAM ORD: forms

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SLIBEAM
GEN
                                   ....ines
                                   FAM: ....dae
                                   SUBFAM: .nae
                                   GEN: will vary but should have the name followed by "sp" on the cards
SPECNM
                                   when the following are found in SPECNM (common name) enter domestic in VAR field
SPENM
                                   field: dog, cat, cow, pig, horse, sheep, sheep;goat, chicken
VAR
                                   enter common crow as SPECNM: crow
                                   common raven as SPECNM: raven
                                   however common merganser is entered as SPECNM: common merganser
                                   enter American eel as eel in SPECNM (common name)
                                   the complete common name has to be entered on both sides of the ";"
                                   ie. SPECNM: Canada goose;snow goose
                                   red-tailed hawk; rough-legged hawk
                                   river redhorse; copper redhorse
                                   blue-winged teal;green winged teal
                                   on card enter misc or unk as
                                   SPEC: unk
                                   SPEG: unk
                                   SPEPS: unk
                                   SPEP: frag.
SPENM
                                   when multiple regions are circled on a card enter various in SPENM (element) field, leave SPI specm - when only ord is know, -only ord fam, subfam en only ord fam, put unk in specnm ie. CL osteichthyes ord siluriformes fam fctaluridea specnm unk
SPEG
                                   ie. SPENM: various
ZREM
                                   ZREM: includes elements from tk, lb, and pvg regions
                                   when cf. appears in SPENM (element)
                                   ie. written on card - vertebra cf. c5 enter as
                                   SPENM: vert c
                                   ZREM: cf. vert c 5
                                   an approximate age may be represented as ya/a - meaning young adult or adult i/j meaning immature or juvenile
AG
SPENM
                                   where quantity is greater than 1, check that all descriptive fields are consistent; make separate cards when inconsistencies exist
QTY
                                   ie: on card SPENM (element) : vert c
SPEPS
                                   CUT (cuts) : bu 5 mr 6
BURN
CUT
                                   BURN (burning) : cl 5
SPEAA
                                   4 cards are needed
ZREM
                                   1 SPENM: vert c
                                   QTY: 5
                                   CUT: bu
                                   2 SPENM: vert c
                                   QTY: 6
                                   CUT: mr
                                   3 SPENM: vert c
                                   QTY: 5
                                   BURN: cl
                                   4 SPENM: vert c
                                   QTY: 4
                                   on card SPENM (element): humerus
                                   QTY: 20
                                   SPEPS (position): 1 r
                                   2 cards are needed
                                   1 SPENM: humerus
                                   QTY: 1
                                   SPEPS: 1
                                   2 SPENM: humerus
                                   QTY: 1
                                   SPEPS: r
                                   recent breaks are not necessarily entered in ZREM (comments) and are entered as whole numbers in QTY field
                                   ie. 2/1 is entered as QTY: 1
                                   this only applies to recent breaks
                                   old (original) breaks are entered as number of pieces in QTY field ie: 2/1 becomes 2 and f-frag is entered in SPEAA (matched pieces) field
                                   when 2 bones fit together and have the same provenience, (which may be indicated by CN (cat. no.), HD (horizontal datum), or STL (stratigraphic position) etc.) f-frag is entered in SPEAA (matched pieces) fields
                                   ie: on one record dist. humerus shaft and dist. epi.
                                   SPENM: humerus
                                   QTY: 20
                                   SPEP: .5 and epi.
                                   SPEAA: f-frag
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ie: 2 records same CN (cat. no.)

SPENM: radius

SPEPS: r

SPEAA: f-frag; fits with R. ulna, same cat. no.

SPENM: ulna

SPEPS: r

SPEAA: f-frag; fits with R. radius, same cat. no.

when 2 bones fit together and have different provenience, (which may be indicated by CN (cat. no.), HD (horizontal datum), or STL (stratigraphic position) etc.) x-mend is entered SPEAA (matched pieces)

SPEAA: x-mend; fits with R.ulna cat. no. 1H13A16 SPEAA: x-mend; fits with R. radius cat. no. 1H13C5

SPECNM where 2 or 3 species appear on one card with a"/" or the word "or", enter the species separated by a ; on the card

and enter or in the SPA field

ASSN ie: enter sheep/goat as SPECNM: sheep;goat

SPA : or

SPA

IDREM

when cf. appears on the card enter cf. in SPA field ie: enter cf. sheep/goal as SPECNM: sheep;goat

SPA L or:cf.

entries in SPECNM (common name) such as blue-winged teal or white-tailed dear must include the hyphen and ed additive

elk should be entered as wapiti in SPECNM (common name)

if a bone can be identified down the speices use SPECNM (common name) field; any words relating to size that occur in either SPECNM (called taxon on card or ZREM (called comments o card) should be entered in ASSN field

le. on card moose (large) enter as SPECNM: moose

ASSN: large

when the identification entry is ORD (order), FAM (family), SUBFAM (subfamily), or GEN (genus) level, any size-related words found in either taxon or comments on the card should be entered in IDREM field

ie. written on card as large Artiodactyla enter as

ORD: Artiodactyla

Idrem: large artiodactyl

ie. on card large mammal (cf. moose) enter as

SPECNM: LM Idrem : cf. moose

#### Data Entry Guide for Mammals

## FIELD NAME DESCRIPTION

SPENM for h SPEG (region) standard entry for element (SPENM) is skull, tooth or mandible

SPEG if element is skull enter ax in SPEPS (position) field and enter L. or R. plus any further element breakdown in SPEP (part) field

SPEPS ie SPENM skul SPEP SPEG h

SPEPS ax SPEP L.maxilla SPENM mandible SPEG h

SPEPS I

if malar bone is found in element change to jugal and enter in SPEP (part) field. Enter skull in SPENM (element) field and ax in SPEPS (position field)

if teeth are associated with skull or mandible enter skull w/ tooth or mandible w/ tooth in SPENM (element\_ field

tooth is entered in SPENM (element) field and the tooth name is entered in SPEP (part) field ie: uP1

different kinds of teeth are entered in separate records

it is not necessary to enter w.(whole) in SPEP (part) field when referring to tooth

carnassial of mandible is entered in SPEP (part ) as IM1 carnassial of maxilla is entered in SPEP (part) as uM1

sacrum is entered alone in SPENM (element) field and may have more information in SPEP (part) field ie: s 1

enter horn core in SPEP (part), skull in SPENM (element) enter antler in SPEP (part), skull in SPENM (element)

phalanx 2 digit II is entered in SPENM (element), hind or front is entered in SPEPS (position) ie: r;hind

r; win

hyoid is entered in SPENM (element) and has a corresponding SPEG (region) of oth

stylohoid is entered in SPEP (part) basihyoid is entered in SPEP (part)

vert cd has a corresponding SPEC (region) of t

sternum is entered in SPENM (element) field; sternebra and manubrium are entered in SPEP (part) field

when innominate is entered in SPENM (element) the following example of information may be found in SPEP (part):

ischium .5, ilium .6, pubis .4

when two or more parts of the innominate (ilium, ishium, pubis) occur, enter innominate in SPENM and specify bond names in SPEP

ie: SPENM innominate SPEP ishium and ilium

ischium, ilium, or pubis are entered in SPENM when they occur individually

acetabular triangle or acetabulum is entered in SPEP and innominate in SPENM

when longbone fragment is found, enter unk in SPENM

1b in SPEG

longbone frag. in SPEP

FIELD NAME

synsacrum is entered in SPENM field, not sacrum SPENM

synsacrum + vert cd is a fused element and is entered in SPENM

rib sternal is entered in SPENM

SPENM eggshell is entered in SPENM (element) with corresponding SPEG (region) oth.

SPEG innominate + synsacrum is a fused element and is entered in SPENM; corresponding SPEP (region) is pvg

SPEPS vert cd has a corresponding SPEG (region) of t

SPEPS where phalanx is entered in SPENM (element); foot or wing is entered in SPEPS (position) ie: SPEPS r; foot

dentary and articular is entered in SPEP (part); mandible is entered in SPENM

the only entries in SPENM with corresponding SPEG (region) of h are: skull, upper bill, quadrate, and mandible;

any further element breakdown should be entered in SPEP (part)

ie: SPENM skull SPEG h SPEPS ax SPENM upper bill SPEG h SPEPS ax

SPEP premaxilla the tip of lower bill is entered in SPEP (part); mandible is entered in SPENM (element)

furculum is entered in SPENM (element); SPEG (region) is ptg; SPEPS is ax; and R. or L. may be specified in SPEP (part)

#### Data Entry Guide of Fish

SPEP

#### FIELD NAME DESCRIPTION

SPENM supraclavicula found in element is entered as supracleithrum in SPENM (element)

pharvngeal plate is entered in SPENM not pharvngeal arch

ptergiophore replaces spine anchor or anal fin support in SPENM (element)

gill arch should be entered as branchial arch in SPENM (element)

enter pharygeal plate is entered in SPENM; enter pharygeal plate dorsal in SPENM field

enter postcleithrum first in SPENM field

SPENM SPENM (element): weberian apparatus

SPEG SPEG (region): tk SPEPS SPEPS (position): ax

SPEP (part): vertebra or process

when ramus is written in part change to process

SPENM vert tk - these vertebrae are entered in SPEG (region) as tk

vert cd - entered in SPEG (region) as tk vert atlus - entered in SPEG (region) as tk

vert hypural - this vertebra is entered in SPEG (region) as t enter abdomial vertebra in SPENM (element) as vert tk

dorsal and anal spine

spine is entered in SPENM (element); tk is entered in SPEG; dorsal or anal is entered in SPEP (part); ax SPEPS (position)

spine is entered in SPENM (element); ptg is entered in SPEG (region); pectoral is entered in SPEP (part); unk, L., or R. is entered in SPEPS (position)

just spine written on the card as SPENM: spine

SPEG: unk SPEPS: unk

ptarygiophore is entered in SPNM (element) and unk in SPEG (region) skull/scute is entered in SPENM (element) and unk in SPEG (region)

scute is entered in SPENM (element); tk in SPEG (region) if dermal or caudal is mention on card SPEP (part) is the proper field

hyoid is entered in SPENM (element); h is entered in SPEG region scale is entered in SPENM (element); oth is entered in SPEG (region)

if teeth are associated with dentary or maxilla enter dentary w/tooth or maxilla w/ tooth in SPENM (element)

### SPENM FIELD BONES OF MAMMAL

HEAD (SPEG h)	TRUNK (SPEG tk)	PECTORAL GUIDE (SPEG ptg)	PELVIC GIRDLE (SPEG pvg)	LIMB (SPEG lb)	EXTREMITY (SPEG ex)	EXTREMILY (SPEG ex) TAI	L (SPEG OTHER (SPEG oth)
skull	vert atlas cervical vertebra 1	scapula	ilium innominate (innominate s	some humerus	mp metapodial	c i intermediate carpa ver	t cd cau hyoid
madible	vert axis cervical vertebra 2	clavicle	ischium innominate	radius	mc metacarpal	c a accessory carpal	baculum
tooth	vert c cervical vertebra		pubis innominate	ulna	mc 1	c r radial carpal	
	vert t thoracic vertebra			febur	mc 2	c 1	
	vert I lumber vertebra			fibula	mc 3	c 2	
	sacrum sternum			patella	mc 4	c 3	
	rib			tibia	mc 5	c 4	
					mc 2/5 metacarpal 2 or	5 c 2+3 carpal 2 and 3 (fuse	d)
SPENM (element) SKULL					mt metatarsal	t tarsal	
					mt 1	t calcaneum	

onen ()	corne ( ''' )
SPEP (part)	SPEPS (position)
articular tubercles of temporal bone	lorr
auditory bulla	TOFF
basisphenoid	
basioccipital or basilar part of occipita	
ezternal acoustic meatus	lorr
foramen magnum	
frontal	lorr
interparietal	
intercornual protuberance	
jugal (sometimes called malar)	lorr
jugular process or paraocciptal proces	
lacrimal	lorr
maxilla	lorr
muscular tubercles	lorr
nasal	lorr
occipital condyle	lorr
orbit	lorr
occipital bone	lorr
parietal bone	lorr
palatine	lorr
petrous bone	lorr
premaxilla	lorr
presphenoid	
pterygoid	lorr
sagittal crest	lorr
squamosal	lorr
supraorbital foramen	lorr
tympanic bulla	lorr
temporal (sometimes called mastoid)	lorr
zygomatic arch	lorr
zygomatic process of temporal bone	lorr
zygomatic	lorr
70	

# SPENM (element) MANDIBLE

SPEP (part)	SPEPS (position)
angular process	lorr
condyle	lorr
coronoid process	lorr
dentary	lorr
ramus (ascending ramus)	lorr
diastema	lorr
mental foramen	lorr
symphysis	

# SPENM (element) TOOTH

part SPEP	position SPEPS
ul1	lorr
ul2	lorr
ul3	lorr
ul4	lorr
uC	lorr
uP1	lorr
uP2	lorr
uP3	lorr
uP4	lorr
uM1	lorr
uM2	lorr
uM3	lorr
udl1	lorr
to	lorr
udI4	lorr
udC	lorr
udP1	lorr
to	lorr
udP4	lorr

part SPEP	position SPEPS
ll1	lorr
II2	lorr
II3	lorr
114	lorr
IC	lorr
IP1	lorr
IP2	lorr
IP3	lorr
IP4	lorr
IM1	lorr
IM2	lorr
IM3	lorr
ldI1	lorr
to	lorr
ldI4	lorr
1dC	lorr
1dP1	lorr
to	lorr
1dP4	lorr

IIIC Z	t astragaras
mt 3	t c central tarsal
mt 4	t c+4 central and 4th tarsal (fused)
mt 5	t 1
mt 2/5 metatarsal 2 or 5	t 2
c carpal	t 3
c u ulna carpal	t 4
	t 1+2 tarsal 1 and 2 (fused)
	t 2+3 tarsal 2 and 3 (fused)
	t Im lateral malleolus
	sesamoid
	phalanx 1
	phalanx 2
	phalanx 3
	phalanx 1 digit I
	phalanx 1 digit II
	phalanx 1 digit III
	phalanx 1 digit IV
	phalanx 1 digit V
	phalanx 2 digit I
	phalanx 2 digit II
	phalanx 2 digit III
	phalanx 2 digit IV
	phalanx 2 digit V
	phalanx 3 digit I
	phalanx 3 digit II
	phalanx 3 digit III
	phalanx 3 digit IV
	phalanx 3 digit V

t astragalus

NOTES

There are no deciduous molars

cheek tooth - (premolar or molar) can not tell the difference I - lower

I - incisor tooth is entered in SPENM field c - canine

Abbreviations

u - upper

p - premolar m- molar d- deciduous (milk tooth) mt 2

cheek is entered in SPEP field

SPENM FIELD BONES OF BIRD

HEAD (SPEG h) TRUNK (SPEG tk)

vert atlas cervical vertebra 1 mandible vert axis cervical vertebra 2 upper bill vert c cervical vertebra quadrate vert I lumber vertebra vert t thoracic vertebra

synsacrum sternum rib tracheal ring syrinx

SPENM (element) FISH SKULL NOMENCLATURE (after Gregory, Mujib & others)

Neurocranium

Olfactory Region SPEG (region) h Orbital Region SPEG (region) h

supraethmoid-ethmoid sclerotic ethmoid (eth) lacrimal (la) rostral (ros) jugal (ju) suborbital (so) postrostral (poros) mesethmoid (meth) dermosphenotic (dsph) dermethmoid (deth) supraorbital (suporb) quadrate + parethmoid prefrontal (pf) nasal (na)

orbitosphenoid (orbsp) alisphenoid (alsp) adnasal (and) vomer (vo) frontal (fr)

septomaxilla parethmoid (pareth) parethmoid + prerontal

Branchiocranium

Oromandibular Region SPEG (region) Hyoid Region

Hyoid Arch - hyomandibular (hyo) palatine premaxilla (pmx) Hyoid Arch - symplectic (sym) Hyoid Arch - interhyal (ihy) supramaxilla (smx) maxilla (mx) Hyoid Arch - epihyal (ephy) palatine (pl) Hyoid Arch - ceratohyal (cerhy) metapterygoid (mtp) Hyoid Arch - hypohyal (hyphy) entopterygoid (entp) Hyoid Arch - glossohyal pterygoid (ptr) Hyoid Arch - basihyal (bshy) articular (art) Hyoid Arch - urohyal (urohy) palatoquadrate Opercular Series - operculum (op) angular (an) Opercular Series - suboperculum (sop) Opercular Series - preoperculum (pop) dermarticular surangular Opercular Series - interoperculum (iop) Opercular Series - branchiostegal rays (brstg) prearticular coronoid Opercular Series - ceratohyal + epihyal

dentary (dn) infradentary quadrate (qu)

quadrate + preoperculum

Branchial Arches SPEG (region) h

dorsal pharyngeal plate (dpp) ventral pharyngeal (vpp) epibrachial (epbr) ceratobranchial (cerbr) hypobranchial (cerbr) basibranchial (bsbr) gular plate (gu) branchial arch

Pectoral & Pelvic Regions

SPEG (region) ptg SPEG (region) tk supracleithrum (scl) pterygials (ptryg) cleithrum (clt) pterygiophore postcleithrum (pcl) fulcra

PECTORAL GIRDLE (SPEG ptg)

scapula furculum coracoid

PELVIC GIRDLE (SPEG pvg) ischium innominate

ilium innominate pubis innominate LIMB (SPEG Ib)

humerus tt tibiotarsus fibula radius

ulna tendon ossified EXTREMITIES (SPEG ex) TAIL (SPEG OTHER (SPEG oth)

tmt tarsometatarsus vert cd hyoid pygostyle caudal vertebra c r radial carpal c u ulna carpal cmc carpometacarpus phalanx 1

phalanx 2 phalanx 3 phalanx 4 phalanx 5 digit I pollex digit II digit III digit IV

claw ungal phalanx

Otic Region SPEG (region) h

sphenotic (sphot) pterotic (pto) parietal (pa) prootic (prot) opisthotic exooccipital (exo) epiotic (epiot) supraoccipital (soc) dermosupraoccipital (dsoc)

scale bone or tabular (tab)

post-temporal (ptm) otolith

Basicranial RegionSPEG (region) h

basisphenoid (bas) basioccipital (boc) parasphenoid (pas)

SPEG (region) pvg basipterygium (basipt) scapula (scap) scute

clavicula coracoid (cor)

SPENM FIELD BONES OF AMPHIBIAN

HEAD (SPEG h) TRUNK (SPEG tk)
mandible vert atlas
skull vert tk
sternum

SPENM FIELD TURTLE

HEAD (SPEG h) TRUNK (SPEG tk)

skull vert atlas cervical vertebra 1
mandible vert axis cervical vertebra 2
vert c cervical vertebra

vert t thoracic vertebra vert l lumbra vertebra

sacrum rib

OTHER (SPEG oth) SPEGS (position)

carapace unk top shell

nuchal ax sometimes written proneural on card peripheral l or r sometimes written marginal on card

peripheral 1 to

peripheral 11

pygal ax neural ax neural 1

to neural 8

pleural | I or r sometimes written costal plate on card

pleural 1 to

pleural 8

supraygal ax

supraygal 1

supraygal 2

plastron unk lower shell

epiplastron lorr
entoplastron ax
hyoplastron lorr
hypopkastron lorr
xiphiplastron lorr
xiphiplastron lorr
inguinal notch lorr

## **EXAMPLES OF ENTRY IN SPENM FIELD**

## ABBREVIATION DESCRIPTION

mc metacarpal metatarsal mt mp metapodial carpal С vert vertebra lumbar vertebra vert l vert t thoracic vertebra caudal vertebra vert cd vert tk trunk vertebra anterior cervical vertebra vert c ant c 2 second carpal

c 2 second carpal mc 3+4 third & fourth metcarpals (fused)

t c central tarsal t astragalus astragalus t calcaneum calcaneum cmc carpometacarpus tmt tarsometatarsus tt tibiotarsus

phalanx 2 digit II second phalanx second digit

PECTORAL GIRDLE (SPEG ptg)

PECTORAL GIRDLE (SPEG ptg)

scapula clavicle coracoid

scapula

coracoid

PELVIC GIRDLE (SPEG pvg) ilium innominate ischium innominate pubis innominate

PELVIC GIRLDE (SPEG pvg)

ilium innominate ischium innominate pubis innominate LIMB (SPEG Ib)

humerus radioulna femur tibiofibula

LIMB (SPEG lb)

humerus radius ulna femur tibia fibula EXTREMITIES (SPEG ex) TAIL (SPEG t)

rarely found too small to i urostyle

EXTREMITIES (SPEG ex) TAIL (SPEG OTHER (SPEG oth)

are rarely found too smal vert cd cau hyoid

skull w/ tooth sesamoid prox rib post skull with tooth proximal sesamoid posterior rib