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Supplementary material: Biometry and biostratigraphy of the Early Cretaceous belemnite genus *Castellanibelus* from the southeast of France

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Abbreviations used:

VALANGINIAN AMMONITES ZONES (Azs)

LV: Lower Valanginian		**UV**: Upper Valanginian	
Inos.	Inostranzewi Az	**Furc.**	Furcillata Az
Neoc.	Neocomiensiformis Az	**Pere.**	Peregrinus Az
Pert.	Pertransiens Az	**Verr.**	Verrucosum Az

CASTELLANIBELUS SPECIES (sp.)

orb.	*C. orbignyanus* (Duval-Jouve, 1841)	***vaub.***	*C. vaubellensis* (Janssen, 2018)
suborb.	*C. suborbignyanus* (Toucas, 1890)	***touc.***	*C. toucasi* sp. nov.

ONTOGENIC STAGE (ont.)

mj	most juvenile	**sa**	sub-adult
vj	very juvenile	**a**	adult
j	juvenile		

ROSTRUM PRESERVATION STATE (st.)

pa	anterior part	**c**	complete
pm	median part	**c -ap**	complete except apex
pp	posterior part	**c -pa**	complete except anterior part
f	fragment		

MEASUREMENTS

Longitudinal measures (in mm)

L	Total Length of rostrum
$\mathbf{L_{rc}}$	Preserved length of rostrum
$\mathbf{L_{tp}}$	Reference length (a-zone to apex excluding mucro).
$\mathbf{L_{pp}}$	Posterior part length (p-zone to apex excluding mucro).
$\mathbf{L_s}$	Groove length (a-zone to groove end)

Transverse measures (in mm)

ha	Anterior dorsoventral diameter
la	Anterior lateral diameter
hp	Posterior dorsoventral diameter
lp	Posterior lateral diameter

Apical and alveolar angles (in degrees)

alv. agl.	angle of the alveolar cavity
$\mathbf{L_{ad}}$	Alveolar depth (a-zone to protoconch)

RATIOS

Compression indices (ic)

ica = ha/la	anterior compression index
icp = hp/lp	posterior compression index

Dilation indices (id)

iddv = lp/la	dorsoventral dilation index
idlat = hp/ha	lateral dilation index

Posterior ratios

$\mathbf{L_{pr}} = L_{pp}/L_{tp}$	posterior length ratio
Psr $= L_{pp}$/lp	posterior shape ratio

Mucro's position (lateral view)

c	centred
dc	dorso-centred
d	dorsal

$\mathbf{L_{al}} = L_{ad}/L_{tp}$	Alveolar relative length
ap. agl.	apical angle (INVTAN$[(l_{\max}/2)/L_{pp}])*2))$

1. Ratios and additional data

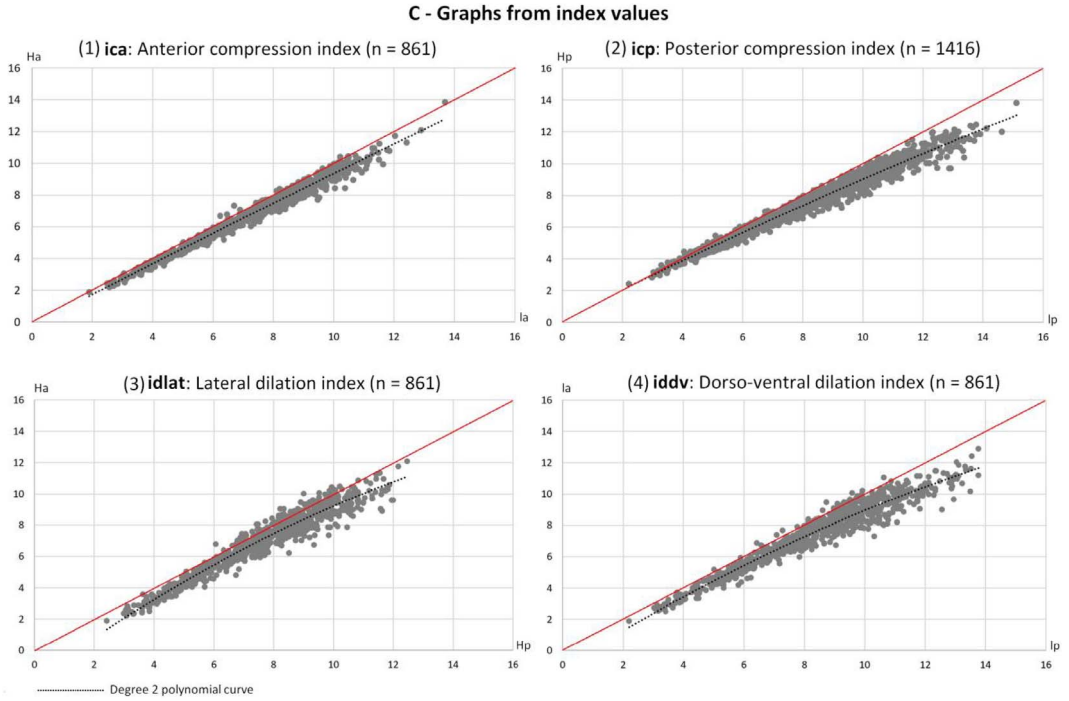
1.1. *Ratios and graphs*

Ratios and graphs were established for a population of 1762 rostra of the genus *Castellanibelus* collected in the Valanginian of the Vocontian Basin (south-eastern France). They belong to the Thomel-Picollier collection. The full data are available in paragraph 2.

ont.	A - Transverse ratios—compression and dilation indices							
	icp (n = 1416)		**ica** (n = 861)		**iddv** (n = 861)		**idlat** (n = 861)	
	Mean	Extreme val.	Mean	Extreme val.	Mean	Extreme val.	Mean	Extreme val.
				Genre *Castellanibelus*				
Σ	**0.92**	**0.75 ≤ icp ≤ 1.10**	**0.93**	**0.82 ≤ ica ≤ 1.10**	**1.12**	**0.92 ≤ iddv ≤ 1.41**	**1.11**	**0.87 ≤ idlat ≤ 1.53**
mj	1.00	0.89 ≤ icp ≤ 1.10	0.92	0.85 ≤ ica ≤ 1.01	1.16	1.06 ≤ iddv ≤ 1.37	1.26	1.09 ≤ idlat ≤ 1.49
vj	0.95	0.84 ≤ icp ≤ 1.10	0.92	0.82 ≤ ica ≤ 0.99	1.14	0.97 ≤ iddv ≤ 1.39	1.18	1.01 ≤ idlat ≤ 1.53
j	0.92	0.78 ≤ icp ≤ 1.04	0.93	0.82 ≤ ica ≤ 1.10	1.11	0.93 ≤ iddv ≤ 1.35	1.10	0.89 ≤ idlat ≤ 1.18
sa	0.90	0.76 ≤ icp ≤ 0.99	0.94	0.82 ≤ ica ≤ 1.02	1.12	0.92 ≤ iddv ≤ 1.41	1.07	0.92 ≤ idlat ≤ 1.39
a	0.89	0.75 ≤ icp ≤ 0.99	0.94	0.86 ≤ ica ≤ 1.02	1.13	1.19 ≤ iddv ≤ 1.39	1.08	0.87 ≤ idlat ≤ 1.31
				***Castellanibelus orbignyanus* [Duval-Jouve, 1841] [= B]**				
Σ	**0.93**	**0.82 ≤ icp ≤ 1.04**	**0.94**	**0.87 ≤ ica ≤ 1.10**	**1.12**	**0.96 ≤ iddv ≤ 1.34**	**1.10**	**0.87 ≤ idlat ≤ 1.36**
mj	0.97	0.92 ≤ icp ≤ 1.02	0.94	0.90 ≤ ica ≤ 0.99	1.14	1.07 ≤ iddv ≤ 1.21	1.17	1.09 ≤ idlat ≤ 1.25
vj	0.96	0.89 ≤ icp ≤ 1.04	0.91	0.87 ≤ ica ≤ 0.97	1.14	1.06 ≤ iddv ≤ 1.24	1.20	1.09 ≤ idlat ≤ 1.36
j	0.93	0.85 ≤ icp ≤ 1.00	0.94	0.87 ≤ ica ≤ 1.10	1.12	0.98 ≤ iddv ≤ 1.31	1.10	0.93 ≤ idlat ≤ 1.29
sa	0.92	0.86 ≤ icp ≤ 0.99	0.95	0.88 ≤ ica ≤ 1.01	1.12	0.97 ≤ iddv ≤ 1.33	1.07	0.92 ≤ idlat ≤ 1.34
a	0.90	0.82 ≤ icp ≤ 0.98	0.95	0.89 ≤ ica ≤ 1.02	1.12	0.96 ≤ iddv ≤ 1.34	1.06	0.87 ≤ idlat ≤ 1.31
				***Castellanibelus suborbignyanus* [Toucas, 1890] [= C]**				
Σ	**0.93**	**0.82 ≤ icp ≤ 1.03**	**0.94**	**0.86 ≤ ica ≤ 1.03**	**1.09**	**0.93 ≤ iddv ≤ 1.39**	**1.08**	**0.89 ≤ idlat ≤ 1.40**
mj	1.00	0.93 ≤ icp ≤ 1.03	0.89	0.87 ≤ ica ≤ 0.92	1.14	1.06 ≤ iddv ≤ 1.19	1.26	1.15 ≤ idlat ≤ 1.40
vj	0.95	0.85 ≤ icp ≤ 0.99	0.92	0.86 ≤ ica ≤ 0.98	1.12	1.02 ≤ iddv ≤ 1.39	1.14	1.04 ≤ idlat ≤ 1.20
j	0.94	0.82 ≤ icp ≤ 1.00	0.94	0.88 ≤ ica ≤ 1.03	1.08	0.93 ≤ iddv ≤ 1.35	1.07	0.89 ≤ idlat ≤ 1.31
sa	0.92	0.87 ≤ icp ≤ 0.99	0.95	0.88 ≤ ica ≤ 1.00	1.07	0.95 ≤ iddv ≤ 1.26	1.04	0.94 ≤ idlat ≤ 1.25
a	0.90	0.84 ≤ icp ≤ 0.99	0.94	0.91 ≤ ica ≤ 1.00	1.09	1.03 ≤ iddv ≤ 1.14	1.07	1.00 ≤ idlat ≤ 1.15
				***Castellanibelus vaubellensis* [Janssen, 2018] [= A]**				
Σ	**0.94**	**0.84 ≤ icp ≤ 1.10**	**0.94**	**0.82 ≤ ica ≤ 1.08**	**1.13**	**0.96 ≤ iddv ≤ 1.41**	**1.13**	**0.90 ≤ idlat ≤ 1.49**
mj	1.01	0.93 ≤ icp ≤ 1.10	0.93	0.85 ≤ ica ≤ 1.01	1.16	1.07 ≤ iddv ≤ 1.37	1.27	1.13 ≤ idlat ≤ 1.49
vj	0.96	0.88 ≤ icp ≤ 1.10	0.92	0.82 ≤ ica ≤ 0.99	1.15	0.97 ≤ iddv ≤ 1.34	1.19	1.02 ≤ idlat ≤ 1.53
j	0.94	0.86 ≤ icp ≤ 1.04	0.94	0.83 ≤ ica ≤ 1.08	1.11	0.96 ≤ iddv ≤ 1.34	1.11	0.96 ≤ idlat ≤ 1.41
sa	0.90	0.86 ≤ icp ≤ 0.99	0.94	0.86 ≤ ica ≤ 1.00	1.13	0.99 ≤ iddv ≤ 1.41	1.10	0.96 ≤ idlat ≤ 1.39
a	0.91	0.84 ≤ lcm ≤ 0.97	0.94	0.86 ≤ ica ≤ 1.00	1.14	1.00 ≤ iddv ≤ 1.39	1.11	0.90 ≤ idlat ≤ 1.28
				***Castellanibelus toucasi* sp. nov. [= D]**				
Σ	**0.87**	**0.75 ≤ icp ≤ 0.98**	**0.91**	**0.82 ≤ ica ≤ 1.02**	**1.13**	**0.92 ≤ iddv ≤ 1.35**	**1.09**	**0.91 ≤ idlat ≤ 1.44**
mj	0.95	0.89 ≤ icp ≤ 0.98	0.90	0.82 ≤ ica ≤ 0.93	1.17	1.12 ≤ iddv ≤ 1.26	1.23	1.10 ≤ idlat ≤ 1.44
vj	0.91	0.84 ≤ icp ≤ 0.98	0.89	0.82 ≤ ica ≤ 0.95	1.15	1.07 ≤ iddv ≤ 1.32	1.19	1.09 ≤ idlat ≤ 1.29
j	0.87	0.78 ≤ icp ≤ 0.93	0.90	0.82 ≤ ica ≤ 1.00	1.13	1.00 ≤ iddv ≤ 1.29	1.09	0.91 ≤ idlat ≤ 1.32
sa	0.86	0.76 ≤ icp ≤ 0.91	0.91	0.82 ≤ ica ≤ 1.02	1.13	0.92 ≤ iddv ≤ 1.35	1.06	0.93 ≤ idlat ≤ 1.18
a	0.83	0.75 ≤ icp ≤ 0.89	0.91	0.86 ≤ ica ≤ 0.95	1.15	1.06 ≤ iddv ≤ 1.24	1.04	0.97 ≤ idlat ≤ 1.13

B - Longitudinal ratios—Apical part—Alveolar groove									
ont.	L_{pr}	**Psr** (n = 1416)		**Apical angle**		L_s*	**Mucro** (n = 1423)		
	Mean	Mean	Extreme val.	Mean	Extreme val.	Mean	c	dc	d
Genre *Castellanibelus*									
Σ	**38%**	**1.51**	**0.73 ≤ L_{pp}/lm ≤ 2.76**	**38°**	**21° ≤ a.ap. ≤ 68°**	**70%**	**33%**	**54%**	**13%**
mj	38%	1.80	1.39 ≤ L_{pp}/lm ≤ 2.18	31°	26° ≤ a.ap. ≤ 39°	63%	11%	74%	15%
vj	39%	1.75	1.28 ≤ L_{pp}/lm ≤ 2.76	32°	21° ≤ a.ap. ≤ 43°	67%	23%	62%	15%
j	38%	1.53	0.84 ≤ L_{pp}/lm ≤ 2.33	37°	24° ≤ a.ap. ≤ 61°	70%	31%	54%	15%
sa	37%	1.41	0.96 ≤ L_{pp}/lm ≤ 2.19	40°	26° ≤ a.ap. ≤ 55°	72%	39%	50%	11%
a	36%	1.31	0.73 ≤ L_{pp}/lm ≤ 2.05	43°	27° ≤ a.ap. ≤ 68°	73%	42%	54%	4%
***Castellanibelus orbignyanus* [Duval-Jouve, 1841] [= B]**									
Σ	**32%**	**1.20**	**0.73 ≤ L_{pp}/lm ≤ 1.66**	**46°**	**34° ≤ a.ap. ≤ 68°**	**72%**	**67%**	**32.5%**	**0.5%**
mj	34%	1.43	1.39 ≤ L_{pp}/lm ≤ 1.47	39°	38° ≤ a.ap. ≤ 39°	63%	17%	83%	
vj	35%	1.43	1.28 ≤ L_{pp}/lm ≤ 1.66	39°	34° ≤ a.ap. ≤ 43°	69%	50%	50%	
j	32%	1.22	0.91 ≤ L_{pp}/lm ≤ 1.54	45°	36° ≤ a.ap. ≤ 58°	72%	62%	38%	
sa	31%	1.14	0.96 ≤ L_{pp}/lm ≤ 1.35	48°	41° ≤ a.ap. ≤ 55°	73%	79%	20%	1%
a	31%	1.04	0.73 ≤ L_{pp}/lm ≤ 1.19	52°	45° ≤ a.ap. ≤ 68°	74%	82%	18%	
***Castellanibelus suborbignyanus* [Toucas, 1890] [= C]**									
Σ	**47%**	**2.01**	**1.63 ≤ L_{pp}/lm ≤ 2.76**	**28°**	**21° ≤ a.ap. ≤ 34°**	**68%**	**77%**	**22%**	**1%**
mj	44%	2.09	2.01 ≤ L_{pp}/lm ≤ 2.18	27°	26° ≤ a.ap. ≤ 28°	62%	60%	40%	
vj	46%	2.15	2.01 ≤ L_{pp}/lm ≤ 2.76	26°	21° ≤ a.ap. ≤ 28°	66%	64%	33%	3%
j	47%	2.05	1.80 ≤ L_{pp}/lm ≤ 2.33	27°	24° ≤ a.ap. ≤ 31°	68%	79%	20%	1%
sa	47%	1.91	1.69 ≤ L_{pp}/lm ≤ 2.19	29°	26° ≤ a.ap. ≤ 33°	69%	87%	13%	
a	46%	1.82	1.63 ≤ L_{pp}/lm ≤ 2.05	31°	27° ≤ a.ap. ≤ 34°	72%	69%	31%	
***Castellanibelus vaubellensis* [Janssen, 2018] [= A]**									
Σ	**39%**	**1.57**	**1.21 ≤ L_{pp}/lm ≤ 1.99**	**36°**	**28° ≤ a.ap. ≤ 45°**	**69%**	**12%**	**85%**	**3%**
mj	37%	1.80	1.58 ≤ L_{pp}/lm ≤ 1.99	31°	28° ≤ a.ap. ≤ 35°	62%	3%	90%	7%
vj	39%	1.73	1.44 ≤ L_{pp}/lm ≤ 1.88	32°	30° ≤ a.ap. ≤ 38°	66%	6%	92%	2%
j	39%	1.60	1.33 ≤ L_{pp}/lm ≤ 1.65	35°	30° ≤ a.ap. ≤ 37°	69%	9%	88%	3%
sa	38%	1.46	1.22 ≤ L_{pp}/lm ≤ 1.68	38°	33° ≤ a.ap. ≤ 45°	71%	17%	79%	4%
a	37%	1.35	1.21 ≤ L_{pp}/lm ≤ 1.56	41°	35° ≤ a.ap. ≤ 45°	71%	25%	74%	1%
***Castellanibelus toucasi* sp. nov. [= D]**									
Σ	**37%**	**1.46**	**1.06 ≤ L_{pp}/lm ≤ 1.94**	**38°**	**29° ≤ a.ap. ≤ 50°**	**71%**	**2%**	**43%**	**55%**
mj	37%	1.74	1.58 ≤ L_{pp}/lm ≤ 1.92	32°	29° ≤ a.ap. ≤ 35°	66%			100%
vj	37%	1.72	1.48 ≤ L_{pp}/lm ≤ 1.94	33°	29° ≤ a.ap. ≤ 37°	68%		23%	77%
j	38%	1.50	1.13 ≤ L_{pp}/lm ≤ 1.90	37°	29° ≤ a.ap. ≤ 50°	70%	3%	34%	63%
sa	36%	1.35	1.06 ≤ L_{pp}/lm ≤ 1.64	41°	35° ≤ a.ap. ≤ 50°	73%	2%	59%	39%
a	36%	1.22	1.08 ≤ L_{pp}/lm ≤ 1.40	45°	39° ≤ a.ap. ≤ 50°	76%		75%	25%

*Related to L_{tp} (length of stem-post), itself estimated at 83% of the total length (L).



Supplementary Figures S1–S4. Distribution of *Castellanibelus* rostra according to compression and expansion indices.

1.2. *Malformations and taphonomic traces*

The study of malformed rostra was carried out using the Keupp [2012] observation grid. Rostra showing traces of taphonomic origin or related to exogenous post-mortem intervention were excluded.

72 rostra out of 1762 show malformations (4% of *Castellanibelus*). Some specimens show more than one type of malformation, with the pathologies linked to each other (Plate 5).

forma aegra	nbr	forma aegra	nbr
angulata	2	*hamata*	11
bullata	6	*manca*	2
clavata	29	*ulifera*	14
collata	6	*saepia*	2
dissulcata	4		

168 specimens show a granular zone (Plate 5, Figures 13–14), more or less extended (~10% of all the *Castellanibelus*). The central point of this zone is located in the protoconch area on the ventral side, at all stages of growth.

The hypothesis that this granular zone is related to disorders of the mantle tissue [f. a. *granulata* Keupp] is excluded because of the regularity of its positioning and the relatively high number of rostra that show it.

It could be taphonomic in origin, caused by a different chemical microenvironment, e.g. due to the presence of blood vessels that have been repeatedly reported on the ventral side of the rostra. This hypothesis, proposed by Dirk Fuchs (personal communication), would explain both the regularity of the positioning and its relative frequency.

2. Complete data (1762 *Castellanibelus* rostra—Valanginian—Vocontian Basin, southeast France)

1	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*touc.*	3019	c	j	41.6	7.0	8.7	0.81	6.3	6.9	0.92	1.26	1.11	36.0	12.0	25.0	0.69	0.33	1.39	0.36	0.69	40		13.5	0.38	dc
LV	Neoc.	1	*touc.*	3020	c -pa	j	38.0	8.5	9.9	0.86	7.3	7.9	0.93	1.26	1.16	35.0	15.0	27.0		0.43	1.52	0.33	0.64	36		13.0	0.37	dc
LV	Neoc.	1	*orb.*	3023	pmpp	a	43.2	10.2	11.4	0.89	10.5	10.7	0.98	1.07	0.97	40.0	11.5	28.0	0.70	0.29	1.01	0.50	0.92	53		16.0	0.40	dc
LV	Pert.	1	*touc.*	3024	pmpp	j/sa	37.3																					
LV	Pert.	1	*suborb.*	3025	c -pa	sa	49.3	9.2	10.4	0.89	8.8	9.5	0.93	1.09	1.05	41.0	20.0	34.0	0.83	0.49	1.92	0.26	0.51	29		17.5	0.43	c
LV	Pert.	1	*touc.*	3026	pmpp	sa	45.3	9.2	11.1	0.83	8.2	9.2	0.89	1.20	1.13	40.0	14.0	31.0	0.78	0.35	1.27	0.40	0.75	43		17.0	0.43	d
LV	Pert.	1	*touc.*	3027	c -pa	j	41.5	7.8	9.6	0.81	7.3	8.0	0.91	1.20	1.07	35.5	12.0	29.0	0.82	0.34	1.25	0.40	0.76	44		14.5	0.41	dc
LV	Pert.	1	*touc.*	3028	c	a	58.9	9.8	12.5	0.78	9.6	10.8	0.89	1.15	1.01	50.0	14.0	42.0	0.84	0.28	1.12	0.45	0.84	48		21.5	0.43	dc
LV	Pert.	1	*touc.*	3029	c	sa	51.2	8.4	9.5	0.88	7.7	8.3	0.93	1.14	1.08	45.0	15.0	35.5	0.79	0.33	1.58	0.32	0.61	35		16.0	0.36	dc
LV	Neoc.	1	*orb.*	3175	c	j	40.6	6.6	7.0	0.94	5.9	6.1	0.97	1.16	1.12	34.0	8.5	23.5	0.69	0.25	1.21	0.41	0.79	45		10.0	0.29	c
UV	Verr.	1	*orb.*	3202	c	a	53.2	10.7	11.9	0.90	10.1	10.5	0.96	1.13	1.06	44.5	12.0	33.0	0.74	0.27	1.01	0.49	0.92	53		20.5	0.46	c
UV	Verr.	1	*vaub.*	3211	c	a	53.3	12.0	12.3	0.97	9.6	10.3	0.93	1.19	1.25	42.5	15.0	29.0	0.68	0.35	1.22	0.41	0.78	45		16.0	0.38	c
UV	Verr.	1	*touc.*	3225	c -pa	sa	49.8	8.9	10.3	0.86	9.0	9.7	0.92	1.06	0.99	42.0	14.5	30.0	0.71	0.35	1.41	0.36	0.68	39		19.5	0.46	dc
UV	Verr.	1	*orb.*	3226	c	sa	47.3	10.5	11.1	0.95	8.8	9.2	0.95	1.20	1.19	44.0	12.0	32.5	0.74	0.27	1.08	0.46	0.87	50		22.0	0.50	c
UV	Verr.	1	*vaub.*	3256	c	sa	51.4	10.6	11.4	0.93	9.4	9.8	0.96	1.16	1.12	46.0	15.0	35.5	0.77	0.33	1.32	0.38	0.72	41		20.0	0.43	c
UV	Verr.	1	*orb.*	3257	pmpp	j	37.0	9.6	10.5	0.92	8.3	8.5	0.98	1.23	1.15	31.5	11.0	21.0	0.67	0.35	1.05	0.48	0.89	51		13.0	0.41	c
LV	Neoc.	1	*touc.*	3261	pmpp	j	35.6	9.1	10.8	0.85	7.7	8.4	0.92	1.29	1.18	34.5	13.5	22.0	0.64	0.39	1.25	0.40	0.76	44				dc
LV	Neoc.	1	sp.	3262	pmpp	sa	38.7																					
UV	Verr.	1	sp.	4190	c -pa	j	38,2	10.1	10.5	0.97	7.9	8.1	0.97	1.29	1.28	35.0	12.0	23.0	0.66	0.34	1.15	0.44	0.82	47		12.5	0.36	c
LV	Pert.	1	*touc.*	4514	pmpp	sa	39.9	8.9	9.8	0.91	8.7	9.1	0.96	1.08	1.02	37.0	14.0	28.0	0.76	0.38	1.43	0.35	0.67	38		14.5	0.39	d
LV	Pert.	1	*touc.*	4515	c	vj	26.2	4.0	4.4	0.91	3.5	4.1	0.86	1.07	1.13	20.5	6.5	14.0	0.68	0.32	1.49	0.34	0.65	37		5.5	0.27	d
LV	Pert.	1	*touc.*	4516	pmpp	j	31.0	7.8	8.9	0.89	7.5	8.0	0.93	1.10	1.05	30.0	10.0	22.0	0.73	0.33	1.13	0.44	0.83	48		12.0	0.40	dc
LV	Neoc.	1	*touc.*	4528	pp	sa	26.7	8.7	10.3	0.84							12.0				1.16	0.43	0.81	47				dc
LV	Neoc.	1	*vaub.*	4529	pmpp	sa	38.9	8.2	9.3	0.88	8.5	9.3	0.91	0.99	0.96	36.0	15.0	20.0	0.56	0.42	1.62	0.31	0.60	34		8.0	0.22	dc
UV	Verr.	1	*touc.*	4576	c -pa	j	28.6	6.3	7.1	0.89	6.0	6.6	0.91	1.07	1.05	26.5	9.5	19.0	0.72	0.36	1.34	0.37	0.72	41		13.0	0.49	dc
UV	Verr.	1	*orb.*	4577	pmpp	vj	20.5	4.7	5.0	0.96	3.5	4.0	0.87	1.24	1.36	19.5	6.5	12.0	0.62	0.33	1.31	0.38	0.73	42		5.0	0.26	dc
UV	Verr.	1	*vaub.*	4578	c	sa	51.2	9.5	10.6	0.90	9.0	9.6	0.94	1.11	1.06	45.5	15.0	32.0	0.70	0.33	1.41	0.35	0.68	39		20.5	0.45	dc
UV	Verr.	1	*vaub.*	4579	pmpp	a	34.9	10.5	11.2	0.94	9.0	9.0	0.99	1.24	1.17	33.0	15.0	23.0	0.70	0.45	1.34	0.37	0.71	41		12.0	0.36	dc
UV	Verr.	1	*orb.*	4580	pmpp	vj/j	23.0	5.9	6.2	0.96	4.6	5.2	0.88	1.18	1.27	21.0	8.5	19.0	0.90	0.40	1.38	0.36	0.69	40		5.0	0.24	dc
UV	Verr.	1	*vaub.*	4581	c	a	51.9	10.3	11.0	0.93	9.3	10.0	0.93	1.11	1.11	44.5	15.0	31.5	0.71	0.34	1.36	0.37	0.70	40		21.0	0.47	c
UV	Verr.	1	*vaub.*	4582	pmpp	sa	35.1	8.2	9.2	0.90	7.4	7.8	0.96	1.18	1.10	33.5	12.0	21.0	0.63	0.36	1.31	0.38	0.73	42		15.0	0.45	dc
UV	Verr.	1	*vaub.*	4583	pmpp	a	38.1	9.9	10.8	0.91	8.7	9.6	0.91	1.13	1.13	36.0	15.0	24.0	0.67	0.42	1.38	0.36	0.69	40		12.0	0.33	dc
LV	Neoc.	1	*vaub.*	4924	c	mj	24.2	3.3	3.2	1.03	2.5	2.6	0.97	1.24	1.32	16.5	5.0	11.0	0.67	0.30	1.58	0.32	0.61	35		3.5	0.21	dc
UV	Verr.	1	*vaub.*	5211	pmpp	j	26.4	5.4	5.7	0.94	4.3	4.6	0.92	1.24	1.26	25.0	9.5	16.5	0.66	0.38	1.66	0.30	0.59	34		7.0	0.28	dc
UV	Verr.	1	*orb.*	5214	c	a	59.0	12.0	13.2	0.91	13.9	13.7	1.01	0.96	0.87	42.0	13.0	22.0	0.52	0.31	0.99	0.51	0.94	54		21.0	0.50	c
UV	Verr.	1	*orb.*	5215	c	j	41.6	6.9	7.2	0.95	6.4	6.5	0.97	1.10	1.08	32.5	11.0	21.0	0.65	0.34	1.53	0.33	0.63	36		12.0	0.37	dc
UV	Verr.	1	*vaub.*	5839	c	j	42.4	7.8	8.1	0.96	7.8	8.0	0.97	1.01	1.00	38.0	13.5	28.0	0.74	0.36	1.67	0.30	0.58	33		16.0	0.42	dc
UV	Verr.	1	*vaub.*	5840	c -pa	vj	25.9	4.7	5.3	0.89	3.8	4.3	0.88	1.24	1.24	23.5	8.5	17.0	0.72	0.36	1.60	0.31	0.60	35		6.0	0.26	dc
UV	Verr.	1	*orb.*	5841	c	j	37.1	7.1	7.3	0.97	6.2	6.5	0.95	1.11	1.14	34.0	10.0	23.0	0.68	0.29	1.37	0.36	0.70	40		13.0	0.38	dc
UV	Verr.	1	*orb.*	5868	c	a	54.1	10.8	12.1	0.90	10.0	10.0	1.00	1.21	1.09	48.0	13.0	37.0	0.77	0.27	1.07	0.47	0.87	50		23.0	0.48	c
UV	Verr.	1	*vaub.*	5869	c	vj	32.7	5.4	6.0	0.91	4.8	5.2	0.92	1.15	1.14	28.0	10.5	21.0	0.75	0.38	1.76	0.28	0.55	32		8.0	0.29	dc
UV	Verr.	1	*vaub.*	5870	c -pa	mj	22.3	3.8	3.9	0.97	3.2	3.5	0.92	1.12	1.17	19.5	7.5	13.0	0.67	0.38	1.92	0.26	0.51	29		5.5	0.28	dc
UV	Verr.	1	sp.	5871	c -pa	j	29.8																					
LV	Neoc.	1	*suborb.*	6983	c -pa	j	40.9	7.7	8.3	0.92	7.3	7.7	0.94	1.08	1.06	35.5	16.0	25.0	0.70	0.45	1.92	0.26	0.51	29		11.5	0.32	c
LV	Neoc.	1	*touc.*	6984	pp	j	24.9	6.2	7.1	0.87							11.0				1.54	0.32	0.63	36				d
LV	Neoc.	1	*vaub.*	6986	pmpp	j	28.8	7.0	7.5	0.94	6.0	6.7	0.89	1.12	1.18	28.0	12.0	19.0	0.68	0.43	1.61	0.31	0.60	35		7.0	0.25	dc
LV	Neoc.	1	*vaub.*	6987	pmpp	j		7.64	8.41	0.91							14				1.66	0.30	0.58	33				dc
UV	Verr.	1	*suborb.*	17487	c	a	58,4	10.5	11.0	0.95	9.1	9.9	0.92	1.11	1.15	52.5	22.5	35.0	0.67	0.43	2.05	0.24	0.48	27		20.0	0.38	c
UV	Verr.	1	*suborb.*	17488	c -pa	sa	44,6	9.2	9.9	0.93	9.5	10.0	0.95	0.99	0.98	40.0	20.0	28.0	0.70	0.50	2.02	0.25	0.49	28		19.5	0.49	c
UV	Verr.	1	*vaub.*	17489	c	sa	53,5	10.4	10.8	0.97	7.9	8.5	0.93	1.27	1.32	44.0	15.0	26.0	0.59	0.34	1.39	0.36	0.69	39		15.0	0.34	c
UV	Verr.	1	*vaub.*	17490	pmpp	j		7.9	8.5	0.93	7.4	8.4	0.88	1.01	1.07	35.0	14.0	26.0	0.74	0.40	1.65	0.30	0.59	34		15.0	0.43	c
UV	Verr.	1	*suborb.*	17491	pmpp	j		8.3	9.2	0.90	8.1	9.0	0.90	1.02	1.02	35.0	18.0	28.0	0.80	0.51	1.96	0.26	0.50	29				c
UV	Verr.	1	*vaub.*	21076	pmpp	sa		9.7	10.1	0.96	9.0	9.6	0.93	1.05	1.07	37.0	15.0	23.0	0.62	0.41	1.49	0.34	0.65	37		12.0	0.32	dc
UV	Verr.	1	*orb.*	21077	pmpp	j		9.1	9.9	0.92	8.2	8.6	0.96	1.14	1.10	34.0	11.5	22.0	0.65	0.34	1.17	0.43	0.81	46		11.0	0.32	c
UV	Verr.	1	*suborb.*	21078	pmpp	sa																						
UV	Verr.	1	*touc.*	21079	pmpp	a		10.4	12.5	0.83							16.0				1.28	0.39	0.74	43				dc
UV	Verr.	1	*vaub.*	21455	pmpp	j	28.7	7.1	7.4	0.97							11.5				1.56	0.32	0.62	35				dc
UV	Verr.	1	*touc.*	22149	c	sa	53.9	9.5	11.1	0.85	8.4	8.2	1.02	1.35	1.12	46.0	14.5	37.0	0.80	0.32	1.31	0.38	0.73	42		14.0	0.30	dc
UV	Verr.	1	*orb.*	22150	c -pa	sa	48.4	8.4	9.1	0.93	8.3	8.5	0.98	1.07	1.02	42.0	10.5	31.5	0.75	0.25	1.15	0.43	0.82	47		15.5	0.37	c
UV	Verr.	1	*vaub.*	22151	c -pa	j	30.1	5.9	6.0	0.99	5.2	5.6	0.93	1.07	1.14	24.5	9.5	16.0	0.65	0.39	1.60	0.31	0.61	35		9.0	0.37	dc
UV	Verr.	1	*vaub.*	22152	c -pa	a	49.6	10.3	10.9	0.94	9.0	9.4	0.96	1.16	1.14	42.0	16.0	31.0	0.74	0.38	1.46	0.34	0.66	38		15.0	0.36	c
UV	Verr.	1	*vaub.*	22153	c -pa	j	37.7	6.6	7.2	0.92	6.7	6.2	1.08	1.16	0.99	29.0	12.5	19.5	0.67	0.43	1.73	0.29	0.56	32		10.5	0.36	dc
UV	Verr.	1	*orb.*	22154	pmpp	j	42.1	8.2	8.8	0.93	8.6	8.7	0.99	1.01	0.95	36.0	12.0	26.0	0.72	0.33	1.36	0.37	0.70	40		13.5	0.38	dc
UV	Verr.	1	*vaub.*	22155	pmpp	vj	24.5	5.0	5.1	0.97	4.1	4.3	0.96	1.19	1.21	21.0	8.5	13.5	0.64	0.40	1.65	0.30	0.59	34		5.0	0.24	dc
UV	Verr.	1	*suborb.*	22156	pmpp	vj	23.5	4.8	5.0	0.96	4.3	4.6	0.93	1.08	1.12	21.0	10.5	13.0	0.62	0.50	2.12	0.24	0.46	27		4.5	0.21	c
UV	Verr.	1	*orb.*	22157	c	sa	49.2	8.3	9.5	0.88	8.7	9.1	0.96	1.05	0.96	39.0	10.5	31.0	0.79	0.27	1.11	0.45	0.85	49		19.0	0.49	dc
UV	Verr.	1	*orb.*	22158	c	a	55.8	9.9	11.1	0.89	10.4	10.2	1.02	1.09	0.95	43.0	12.0	29.5	0.69	0.28	1.08	0.46	0.87	50		17.0	0.40	dc
UV	Verr.	1	*vaub.*	22159	c -pa	mj	25.2	4.6	4.5	1.02	3.5	4.0	0.87	1.15	1.34	21.0	8.5	13.0	0.62	0.40	1.87	0.27	0.52	30		5.5	0.26	dc
UV	Verr.	1	*vaub.*	22160	c	j	42.6	6.7	7.2	0.93	6.4	6.5	0.97	1.10	1.06	33.5	11.5	24.0	0.72	0.34	1.60	0.31	0.61	35		12.0	0.36	dc
UV	Verr.	1	*suborb.*	22161	pmpp	sa		9.0	9.6	0.94	8.6	8.8	0.98	1.08	1.04	37.0	18.0	26.0	0.70	0.49	1.88	0.27	0.52	30		9.5	0.26	dc
UV	Verr.	1	sp.	22172	pmpp																							
UV	Verr.	1	*vaub.*	29588	c	a	65.7	10.5	11.6	0.90	9.1	9.9	0.92	1.17	1.15	57.0	18.0	44.0	0.77	0.32	1.56	0.32	0.62	36		23.0	0.40	dc
UV	Verr.	1	*orb.*	29589	c -pa	sa	45.1									38.0										12.0	0.32	c
UV	Verr.	1	*orb.*	29590	pmpp	j	31.0	7.8	8.4	0.93	7.5	7.8	0.97	1.07	1.03	28.5	10.0	21.0	0.74	0.35	1.19	0.42	0.79	45		12.5	0.44	c

z	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*vaub.*	29771	pp	a	32.4	9.9	11.1	0.89							15.5				1.39	0.36	0.69	40				dc
UV	Verr.	1	*vaub.*	30211	pmpp	sa	35.7	9.2	9.3	0.99	8.4	9.2	0.91	1.01	1.09	31.0	13.0	21.0	0.68	0.42	1.40	0.36	0.69	39		10.5	0.34	dc
LV	Pert.	1	*touc.*	30282	c	sa/a	49.7	9.0	10.9	0.82	7.9	9.5	0.83	1.15	1.14	43.0	13.0	34.0	0.79	0.30	1.19	0.42	0.80	46		17.0	0.40	dc
LV	Pert.	1	*touc.*	30283	pmpp	sa	37.7	7.7	9.1	0.85	6.8	7.4	0.91	1.23	1.14	36.0	14.0	25.5	0.71	0.39	1.54	0.32	0.63	36		14.0	0.39	d
LV	Pert.	1	*vaub.*	30284	pmpp	sa	37.6	8.4	9.0	0.93	7.7	8.0	0.96	1.12	1.10	34.0	14.0	25.5	0.75	0.41	1.55	0.32	0.62	36		13.0	0.38	dc
LV	Pert.	1	*touc.*	30285	c-pa	sa	46.5	8.3	9.1	0.91	8.0	8.3	0.96	1.10	1.05	37.5	12.5	28.0	0.75	0.33	1.37	0.36	0.70	40		12.0	0.32	dc
LV	Pert.	1	*touc.*	30286	pmpp	j	33.4	7.3	8.1	0.91	6.7	7.1	0.95	1.14	1.09	29.0	14.0	21.0	0.72	0.48	1.73	0.29	0.56	32		10.5	0.36	d
LV	Pert.	1	*touc.*	30287	pmpp	j	31.4	6.3	7.3	0.87	5.6	6.7	0.84	1.09	1.13	28.0	12.0	20.0	0.71	0.43	1.65	0.30	0.59	34		13.0	0.46	d
UV	Verr.	1	sp.	30313	pmpp	j	29.4																					
UV	Verr.	1	*vaub.*	30339	pmpp	j	28.3	8.4	9.2	0.91							14.0				1.52	0.33	0.63	36				dc
UV	Verr.	1	*touc.*	30341	pmpp	sa	33.3	9.3	10.9	0.86							14.5				1.33	0.37	0.72	41				dc
UV	Verr.	1	*touc.*	30342	pmpp	j	27.6	8.1	9.2	0.88							12.0				1.31	0.38	0.73	42				dc
UV	Verr.	1	*orb.*	30343	pp	sa	24.5	8.3	8.9	0.93							8.5				0.95	0.52	0.97	55				c
UV	Verr.	1	*vaub.*	30344	pmpp	j	26.6	6.9	7.6	0.91							11.0				1.44	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	30402	pmpp	j	25.5	5.9	6.1	0.96	5.3	5.8	0.91	1.05	1.10	24.0	9.5	16.0	0.67	0.40	1.55	0.32	0.62	36		7.0	0.29	dc
UV	Verr.	1	sp.	30660	pp	sa	28.5																					
UV	Verr.	1	*vaub.*	30661	pmpp	j/sa	31.5	9.1	9.4	0.97							13.5				1.44	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	30662	c	vj	28.4	4.5	4.5	1.00	4.1	4.3	0.94	1.03	1.09	24.0	8.0	16.0	0.67	0.33	1.79	0.28	0.55	31		7.0	0.29	dc
UV	Pere.	1	*orb.*	30689	pmpp	sa	32.3	8.2	8.9	0.91	8.1	8.4	0.96	1.07	1.01	30.0	11.5	21.0	0.70	0.38	1.29	0.39	0.74	42		10.0	0.33	c
UV	Verr.	1	*vaub.*	30847	c	a	60.0	10.7	11.8	0.91	10.3	10.4	0.99	1.13	1.04	48.0	15.0	34.5	0.72	0.31	1.27	0.39	0.75	43		22.0	0.46	dc
UV	Verr.	1	*orb.*	30848	pmpp	j	29.0	6.4	6.8	0.93							9.5				1.39	0.36	0.69	40	18			c
UV	Verr.	1	*vaub.*	30849	pmpp	sa	38.8	8.9	9.4	0.95	8.0	9.0	0.89	1.04	1.12	37.0	13.5	27.0	0.73	0.36	1.44	0.35	0.67	38		11.5	0.31	dc
UV	Verr.	1	*vaub.*	30850	c	j	30.7	5.7	6.1	0.93	5.2	5.7	0.90	1.07	1.11	28.0	10.5	18.5	0.66	0.38	1.71	0.29	0.57	33		9.0	0.32	dc
UV	Verr.	1	*vaub.*	30851	pmpp	sa	32.4	9.4	10.4	0.91							14.5				1.40	0.36	0.69	39				dc
UV	Verr.	1	*vaub.*	30852	pmpp	vj	23.5	5.6	5.6	0.99							9.0				1.60	0.31	0.61	35				c
UV	Verr.	1	sp.	30853	f																							
UV	Verr.	1	*touc.*	30854	pp	vj/j	21.8	6.0	6.6	0.92							9.0				1.37	0.37	0.70	40				d
UV	Verr.	1	*touc.*	30855	pmpp	j/sa	28.6	8.5	9.6	0.89							13.0				1.36	0.37	0.70	40				dc
UV	Verr.	1	*vaub.*	30856	pp	sa	24.4	10.0	10.6	0.95							15.0				1.42	0.35	0.68	39				c
UV	Verr.	1	*vaub.*	30857	papp	a	26.3	9.9	11.0	0.90							15.0				1.36	0.37	0.70	40				dc
UV	Verr.	1	*suborb.*	31019	c	j/sa	43.0	8.1	8.3	0.97	8.1	8.2	0.98	1.01	1.00	31.0	17.5	27.0	0.87	0.56	2.10	0.24	0.47	27		16.0	0.52	dc
UV	Verr.	1	*orb.*	31020	c-pa	sa	47.7	9.8	10.3	0.95	9.3	9.4	0.99	1.10	1.06	43.0	11.5	31.0	0.72	0.27	1.12	0.45	0.84	48		17.5	0.41	c
UV	Verr.	1	*vaub.*	31021	c	j/sa	44.9	8.2	9.5	0.86	7.7	8.0	0.97	1.19	1.06	36.5	14.0	28.0	0.77	0.38	1.48	0.34	0.65	37		14.5	0.40	dc
UV	Verr.	1	*suborb.*	31022	c-pa	vj	26.3	4.5	5.1	0.89	4.2	4.8	0.88	1.05	1.07	23.5	11.0	13.0	0.55	0.47	2.16	0.23	0.46	26		7.8	0.33	c
UV	Verr.	1	*suborb.*	31024	c	vj	32.1	5.4	5.5	0.97	4.4	4.9	0.90	1.14	1.23	28.0	11.5	20.0	0.71	0.41	2.08	0.24	0.47	27		8.0	0.29	c
UV	Verr.	1	*vaub.*	31025	c-pa	vj	25.6	5.0	5.3	0.95	4.3	4.8	0.89	1.10	1.17	22.0	8.5	16.0	0.73	0.39	1.62	0.31	0.60	34		7.0	0.32	dc
UV	Verr.	1	*vaub.*	31026	c	j/sa	48.8	9.5	10.1	0.93	8.0	8.1	0.98	1.25	1.19	38.0	16.0	28.5	0.75	0.42	1.58	0.32	0.61	35		12.0	0.32	dc
UV	Verr.	1	*suborb.*	31027	pmpp	sa	41.3	9.3	9.6	0.97	9.6	10.1	0.95	0.95	0.97	34.0	21.0	25.0	0.74	0.62	2.19	0.23	0.45	26		13.0	0.38	c
UV	Verr.	1	*vaub.*	31028	c	sa	54.6	9.8	10.7	0.91	7.9	8.1	0.97	1.32	1.25	41.0	17.0	37.0	0.90	0.41	1.58	0.32	0.61	35		16.0	0.39	c
UV	Verr.	1	*vaub.*	31029	pmpp	j	33.9	7.5	8.6	0.88	7.5	8.3	0.91	1.04	1.00	32.0	14.0	21.0	0.66	0.44	1.63	0.31	0.59	34		13.0	0.41	dc
UV	Verr.	1	*orb.*	31030	pp	j	20.5	7.3	7.7	0.95							10.0				1.30	0.38	0.73	42				dc
UV	Verr.	1	*suborb.*	31031	pmpp	j	30.6	7.7	8.3	0.93							16.5				2.00	0.25	0.49	28				c
UV	Verr.	1	*vaub.*	31032	pp	sa	28.0	8.8	9.6	0.91							13.8				1.43	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	31033	pmpp	vj	24.6	5.8	6.0	0.98	5.4	5.7	0.96	1.05	1.08	22.0	10.0	13.0	0.59	0.45	1.68	0.30	0.58	33		5.0	0.23	dc
UV	Verr.	1	*vaub.*	31085	pmpp	sa	39.1	8.1	8.7	0.94	7.6	8.3	0.92	1.04	1.07	36.5	14.5	27.0	0.74	0.40	1.67	0.30	0.58	33		18.0	0.49	dc
UV	Verr.	1	*suborb.*	31086	pmpp	sa	49.1	9.6	10.0	0.96	9.2	9.6	0.95	1.04	1.05	43.0	19.0	30.5	0.71	0.44	1.91	0.26	0.51	29		21.0	0.49	c
UV	Verr.	1	*vaub.*	31088	pmpp	j	28.2	6.1	6.6	0.92	5.5	5.9	0.93	1.11	1.10	27.0	10.5	19.0	0.70	0.39	1.60	0.31	0.61	35		8.5	0.31	dc
UV	Verr.	1	*suborb.*	31089	pmpp	j/sa	34.3	7.7	7.8	0.98	7.6	7.6	1.00	1.04	1.02	32.0	15.8	22.0	0.69	0.49	2.01	0.25	0.49	28		12.0	0.38	c
UV	Verr.	1	*vaub.*	31090	pp	sa	26.4	9.4	10.4	0.90							14.0				1.35	0.37	0.71	41				dc
LV	Pert.	1	*suborb.*	31405	pmpp	a	44.0	10.5	12.8	0.82	9.8	10.7	0.92	1.19	1.06	42.0	16.5	31.0	0.74	0.39	1.29	0.39	0.74	42		16.0	0.38	dc
LV	Pert.	1	*suborb.*	31406	c-pa	j	40.6	7.7	8.3	0.92	7.7	8.2	0.94	1.02	1.00	37.0	16.0	26.0	0.70	0.43	1.92	0.26	0.51	29		15.0	0.41	c
LV	Pert.	1	*vaub.*	31407	pmpp	sa	43,9	9.4	10.4	0.90	9.4	9.8	0.95	1.05	1.00	41.0	16.0	27.0	0.66	0.39	1.54	0.32	0.63	36		13.0	0.32	dc
LV	Pert.	1	*touc.*	31408	c-pa	sa	48,8	8.7	10.5	0.82	8.9	10.1	0.88	1.05	0.98	46.5	14.0	35.0	0.75	0.30	1.33	0.38	0.72	41		23.0	0.49	d
LV	Pert.	1	*touc.*	31409	pmpp	j	30.2	5.7	6.9	0.83	5.6	6.1	0.92	1.13	1.02	27.5	9.5	19.5	0.71	0.35	1.38	0.36	0.70	40		9.0	0.33	d
LV	Pert.	1	*touc.*	31410	pmpp	j	31,4	5.3	6.0	0.88	4.6	5.2	0.88	1.14	1.14	29.0	9.5	20.0	0.69	0.33	1.60	0.31	0.61	35		4.0	0.14	d
LV	Pert.	1	*suborb.*	31411	c	j	49.5																					c
LV	Pert.	1	*touc.*	31412	c	j	46.5	7.8	8.8	0.89	7.5	7.9	0.95	1.11	1.04	41.0	13.5	31.0	0.76	0.33	1.54	0.33	0.63	36		15.0	0.37	d
LV	Pert.	1	*touc.*	31413	pmpp	sa	39,4	8.3	9.5	0.87	8.5	9.7	0.88	0.98	0.98	36.0	14.0	25.0	0.69	0.39	1.47	0.34	0.66	38		14.5	0.40	d
LV	Pert.	1	*touc.*	31414	pmpp	sa	44.1	9.9	11.7	0.84	10.2	11.2	0.92	1.05	0.96	40.0	17.0	31.0	0.78	0.43	1.45	0.35	0.66	38		15.0	0.38	d
LV	Pert.	1	*orb.*	31415	c-pa	a	50,1	10.3	11.8	0.88	9.0	9.7	0.93	1.21	1.14	43.5	12.5	31.5	0.72	0.29	1.06	0.47	0.88	50		15.0	0.34	dc
LV	Pert.	1	*touc.*	31416	pmpp	sa	37,4																					
LV	Pert.	1	sp.	31417	pmpp	j	27,4																					
LV	Pert.	1	*orb.*	31418	c-pa	j	34.2	6.0	6.4	0.93	5.5	5.8	0.96	1.12	1.08	30.0	7.5	21.0	0.70	0.25	1.17	0.43	0.81	46		10.0	0.33	c
LV	Pert.	1	*touc.*	31419	pmpp	vj	21.5	4.3	4.6	0.92	3.3	4.0	0.84	1.17	1.28	21.5	9.0	13.5	0.63	0.42	1.94	0.26	0.50	29				d
UV	Verr.	1	*vaub.*	34458	pp	sa	28.3	10.1	10.9	0.93							16.0				1.47	0.34	0.65	37				dc
LV	Neoc.	1	*touc.*	34579	pmpp	vj	24.6	4.7	5.4	0.88	4.0	4.5	0.88	1.19	1.19	21.5	9.0	16.0	0.74	0.42	1.68	0.30	0.58	33		6.5	0.30	dc
UV	Verr.	1	*orb.*	35064	pp	a	27.4																					c
UV	Verr.	1	*vaub.*	35134	c	vj	33.8	5.1	5.4	0.96	4.6	4.9	0.93	1.09	1.12	27.0	10.0	18.5	0.69	0.37	1.87	0.27	0.52	30		7.5	0.28	dc
UV	Verr.	1	*vaub.*	35135	pmpp	a	40.4	9.9	10.7	0.93	9.4	9.5	0.98	1.13	1.06	38.5	14.0	32.0	0.83	0.36	1.31	0.38	0.73	42		14.5	0.38	c
UV	Verr.	1	*orb.*	35136	c-pa	j	34.8	7.0	7.7	0.91	6.5	7.0	0.92	1.09	1.08	31.5	8.8	24.0	0.76	0.28	1.14	0.44	0.83	47		12.0	0.38	c
UV	Verr.	1	*orb.*	35140	pp	j	22.2																					
UV	Verr.	1	*orb.*	35141	f	j/sa	35.4									32.0									18	14.0	0.44	c
UV	Verr.	1	*vaub.*	35142	pmpp	j	21.4	6.0	6.4	0.93							10.0				1.56	0.32	0.62	36				dc
UV	Furc.	1	*suborb.*	35275	c-pa	j	35.0	6.5	7.2	0.90	5.9	6.3	0.92	1.13	1.10	32.0	15.5	23.0	0.72	0.48	2.16	0.23	0.45	26		12.0	0.38	c
UV	Furc.	1	sp.	35276	pp	j																						
UV	Verr.	1	*orb.*	35277	c-pa	sa	45.9	9.9	11.2	0.88	8.4	9.2	0.91	1.21	1.18	40.0	11.3	31.5	0.79	0.28	1.00	0.50	0.93	53		14.0	0.35	c
UV	Verr.	1	*vaub.*	35278	c-pa	sa	50,1																					dc
UV	Verr.	1	*vaub.*	35279	c	sa	53.8	9.8	10.5	0.93	8.5	8.9	0.96	1.18	1.15	42.0	15.5	30.5	0.73	0.37	1.48	0.34	0.65	37	18	14.0	0.33	dc
UV	Verr.	1	*orb.*	35280	pmpp	a	32.3	11.0	12.5	0.88							13.5				1.08	0.46	0.87	50				dc
UV	Verr.	1	*touc.*	35281	c	j	37.9	6.0	6.8	0.88	5.4	5.9	0.90	1.15	1.13	31.0	11.5	22.0	0.71	0.37	1.69	0.30	0.58	33		11.0	0.35	dc

ɯ	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*vaub.*	35282	c	mj	26.2	4.5	4.4	1.01	3.8	4.0	0.95	1.11	1.18	21.0	7.5	14.0	0.67	0.36	1.69	0.30	0.58	33		7.5	0.36	dc
UV	Verr.	1	*suborb.*	35283	c	vj	25,9	3.6	3.8	0.96	3.6	3.7	0.97	1.02	1.01	21.5	10.5	18.0	0.84	0.49	2.76	0.18	0.36	21		7.5	0.35	c
UV	Verr.	1	*vaub.*	35284	pmpp	j	29.4	6.2	6.4	0.96	5.2	5.7	0.91	1.14	1.20	25.5	10.0	16.0	0.63	0.39	1.55	0.32	0.62	36		9.0	0.35	dc
UV	Verr.	1	*vaub.*	35285	c	vj	24.8	4.1	4.5	0.91	3.4	3.7	0.92	1.22	1.21	21.0	8.0	15.0	0.71	0.38	1.77	0.28	0.55	32		6.0	0.29	dc
UV	Verr.	1	*vaub.*	35286	pmpp	j		5.8	5.9	0.98	5.5	5.9	0.93	0.99	1.04	23.0	10.0	14.0	0.61	0.43	1.69	0.30	0.57	33		7.5	0.33	dc
UV	Verr.	1	*orb.*	35287	pmpp	sa	29.3	8.9	9.8	0.90							11.5				1.17	0.43	0.81	46				c
UV	Verr.	1	*vaub.*	35288	pmpp	j	27.9	7.5	7.6	0.99							12.0				1.59	0.32	0.61	35				dc
UV	Verr.	1	*vaub.*	35289	c	j/sa		8.5	9.1	0.94	6.2	6.8	0.92	1.34	1.37	34.0	13.5	25.0	0.74	0.40	1.49	0.34	0.65	37		11.0	0.32	dc
LV	Neoc.	1	sp.	36176	pm	j																						
UV	Pere.	1	*orb.*	36238	c	j	42,1	7.4	8.2	0.90	6.5	6.6	0.99	1.25	1.14	34.0	10.0	28.0	0.82	0.29	1.21	0.41	0.78	45		10.5	0.31	dc
UV	Verr.	1	*orb.*	38399	c	sa	51.6	10.2	10.8	0.94	8.6	8.7	0.99	1.25	1.19	44.0	12.5	33.0	0.75	0.28	1.16	0.43	0.81	47		18.0	0.41	dc
UV	Verr.	1	*orb.*	38400	pmpp	j	26.0	5.5	5.7	0.97	5.3	5.5	0.96	1.03	1.04	24.0	7.5	17.0	0.71	0.31	1.33	0.38	0.72	41		7.5	0.31	dc
UV	Verr.	1	*vaub.*	38401	pmpp	sa	39.8	9.6	11.0	0.87	8.9	9.4	0.95	1.17	1.08	38.0	16.0	27.0	0.71	0.42	1.45	0.34	0.66	38		17.0	0.45	dc
UV	Verr.	1	sp.	38402	pmpp	j	36.2																					
UV	Verr.	1	*suborb.*	38403	c	sa	51.4	9.5	10.1	0.94	8.5	9.3	0.91	1.08	1.12	44.0	20.0	29.0	0.66	0.45	1.98	0.25	0.49	28		19.0	0.43	c
UV	Verr.	1	*vaub.*	38404	c	vj	29.3	5.5	5.9	0.94	5.0	5.0	0.99	1.18	1.11	26.5	10.5	17.0	0.64	0.40	1.79	0.28	0.55	31		9.0	0.34	dc
UV	Verr.	1	*vaub.*	38405	pmpp	j	26.6	6.1	6.6	0.91	5.5	6.1	0.91	1.09	1.09	25.0	11.0	17.0	0.68	0.44	1.66	0.30	0.59	34		10.0	0.40	dc
UV	Verr.	1	*vaub.*	38551	c	j/sa	56.6	8.6	9.1	0.94	7.4	7.5	0.99	1.21	1.16	45.0	14.3	34.0	0.76	0.32	1.57	0.32	0.62	35		14.0	0.31	dc
UV	Verr.	1	*vaub.*	38552	pmpp	a	40.8	11.2	11.7	0.96	10.2	10.2	1.00	1.15	1.10	39.0	15.5	27.0	0.69	0.40	1.32	0.38	0.72	41		15.0	0.38	c
UV	Verr.	1	*orb.*	38553	pmpp	sa	34.5	8.7	9.3	0.94	8.2	8.4	0.98	1.10	1.06	32.0	10.5	23.0	0.72	0.33	1.13	0.44	0.83	48		12.0	0.38	c
UV	Verr.	1	*orb.*	38554	c-pa	vj	26.4	5.2	5.3	0.99	4.1	4.6	0.89	1.14	1.28	23.0	7.5	13.0	0.57	0.33	1.43	0.35	0.67	39		8.0	0.35	dc
UV	Verr.	1	*vaub.*	38555	pmpp	j	30.1	6.7	7.2	0.93	5.7	6.2	0.91	1.16	1.18	29.0	10.8	20.0	0.69	0.37	1.50	0.33	0.64	37		9.0	0.31	dc
UV	Verr.	1	*orb.*	38556	pmpp	j/sa	37.4	8.5	9.6	0.89	7.5	7.8	0.95	1.23	1.14	34.0	10.0	28.0	0.82	0.29	1.04	0.48	0.90	51		12.5	0.37	c
UV	Verr.	1	*suborb.*	38557	c	sa	44.4	7.9	8.8	0.89	7.4	7.7	0.96	1.15	1.07	37.5	15.0	27.0	0.72	0.40	1.70	0.29	0.57	33		15.0	0.40	c
UV	Verr.	1	*orb.*	38558	c	sa	46.0	9.3	10.5	0.89	8.2	8.6	0.95	1.21	1.14	41.0	10.5	31.0	0.76	0.26	1.00	0.50	0.92	53		16.5	0.40	dc
UV	Verr.	1	*orb.*	38559	pmpp	j	28.9	8.3	9.1	0.91							10.5				1.16	0.43	0.82	47				c
UV	Verr.	1	*orb.*	38560	pmpp	vj	23.0	5.1	5.3	0.97	4.3	4.6	0.93	1.14	1.19	21.0	7.5	12.5	0.60	0.36	1.43	0.35	0.67	39		5.5	0.26	c
UV	Verr.	1	*suborb.*	38561	c-pa	j	38.9	7.5	7.8	0.97	7.0	7.3	0.96	1.06	1.07	35.5	15.5	26.5	0.75	0.44	2.00	0.25	0.49	28		13.0	0.37	c
UV	Verr.	1	*suborb.*	38562	pmpp	a	39.1	9.5	9.8	0.97	8.7	9.5	0.92	1.03	1.10	36.0	18.0	26.0	0.72	0.50	1.83	0.27	0.53	31		11.0	0.31	dc
UV	Verr.	1	*touc.*	38563	pmpp	sa	33.5	8.6	9.7	0.89	8.6	9.2	0.93	1.06	1.01	31.0	15.0	20.0	0.65	0.48	1.55	0.32	0.63	36		13.5	0.44	dc
UV	Verr.	1	sp.	38564	pmpp	sa	41.5																					
UV	Verr.	1	sp.	38565	pmpp	a	36.8																					
UV	Verr.	1	*suborb.*	38667	pmpp	a	39.4	11.5	11.6	0.99							22.0				1.89	0.26	0.52	30				dc
UV	Verr.	1	*vaub.*	38668	c	sa	50.5	9.2	10.2	0.90	8.4	9.2	0.91	1.11	1.10	44.0	15.0	33.0	0.75	0.34	1.47	0.34	0.65	38		20.0	0.45	dc
UV	Verr.	1	*vaub.*	38692	pmpp	a	33.5	10.5	11.9	0.88							17.0				1.42	0.35	0.67	39				dc
UV	Verr.	1	*touc.*	38730	c	sa	54.0	8.9	10.0	0.89	8.9	9.2	0.96	1.09	1.00	43.0	14.5	31.0	0.72	0.34	1.44	0.35	0.67	38		18.0	0.42	c
UV	Verr.	1	*vaub.*	38732	pmpp	j	35.5	7.7	8.4	0.92	6.9	7.6	0.90	1.11	1.13	30.5	12.0	16.0	0.52	0.39	1.43	0.35	0.67	39		12.5	0.41	c
UV	Verr.	1	*suborb.*	38733	pp	sa	32.2	9.9	10.6	0.94							21.0				1.98	0.25	0.49	28				c
UV	Verr.	1	*vaub.*	38734	pmpp	sa	35.4	9.0	9.7	0.93							14.0				1.45	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	38735	c-ap	j	30.7	5.4	5.7	0.94	4.8	5.1	0.92	1.11	1.13	27.5	9.5	18.0	0.65	0.35	1.66	0.30	0.58	33		9.0	0.33	d
UV	Verr.	1	*orb.*	38736	pmpp	j	28.5	9.4	9.9	0.96							10.5				1.06	0.47	0.88	50				c
UV	Verr.	1	*vaub.*	38737	pmpp	j	27.7	7.4	8.2	0.90							12.5				1.52	0.33	0.64	36				dc
UV	Verr.	1	*vaub.*	38738	pmpp	vj/j	27.5	5.8	5.8	1.01	5.1	5.4	0.95	1.07	1.14	23.5	10.0	16.5	0.70	0.43	1.73	0.29	0.56	32		7.0	0.30	dc
UV	Verr.	1	*vaub.*	38903	c	j	46.6	7.6	8.0	0.95	6.0	6.7	0.89	1.18	1.27	40.0	13.0	31.0	0.78	0.33	1.63	0.31	0.59	34		13.0	0.33	dc
UV	Verr.	1	sp.	38941	pmpp	sa	30.7																					
UV	Verr.	1	sp.	38946	c-pa	sa	38.9																					
UV	Verr.	1	*vaub.*	38947	c	j	38.7	5.8	5.9	0.98	5.2	5.6	0.93	1.06	1.12	29.5	9.0	19.0	0.64	0.31	1.53	0.33	0.63	36	18	10.0	0.34	dc
UV	Verr.	1	*orb.*	38948	c	sa	52.2	9.1	9.7	0.94	9.1	9.2	1.00	1.05	0.99	43.0	11.5	31.0	0.72	0.27	1.19	0.42	0.80	46		17.0	0.40	c
UV	Verr.	1	*vaub.*	38949	c	mj	23.7	3.8	3.5	1.08	2.9	3.3	0.89	1.07	1.30	19.5	6.5	13.5	0.69	0.33	1.86	0.27	0.53	30		5.0	0.26	dc
UV	Verr.	1	*orb.*	38950	pmpp	sa	35.3	8.8	9.9	0.89	8.0	8.8	0.91	1.13	1.10	32.0	11.0	23.0	0.72	0.34	1.11	0.45	0.84	48		15.0	0.47	dc
UV	Verr.	1	*orb.*	38951	c	j/sa	48.9	8.4	9.1	0.93	7.5	7.9	0.95	1.15	1.12	38.0	11.5	29.0	0.76	0.30	1.27	0.39	0.75	43		13.0	0.34	c
UV	Verr.	1	*touc.*	38952	c	j	38.1	6.4	7.2	0.89	6.2	6.5	0.95	1.11	1.04	32.5	11.5	23.0	0.71	0.35	1.60	0.31	0.61	35		12.0	0.37	d
UV	Verr.	1	*vaub.*	38953	pmpp	a	37.1	10.2	11.5	0.89	8.7	9.5	0.92	1.21	1.17	34.5	16.0	25.0	0.72	0.46	1.39	0.36	0.69	39				dc
UV	Verr.	1	*vaub.*	38954	pmpp	sa	32.5	8.3	9.5	0.88	7.9	8.5	0.93	1.11	1.06	31.0	14.0	20.0	0.65	0.45	1.48	0.34	0.65	37		10.0	0.32	dc
UV	Verr.	1	*vaub.*	38955	pmpp	sa	42.3	8.5	9.4	0.90	8.5	8.7	0.98	1.09	1.00	36.0	14.0	25.0	0.69	0.39	1.48	0.34	0.65	37		13.0	0.36	dc
UV	Verr.	1	sp.	38956	pp	j	26,8																					
UV	Verr.	1	*vaub.*	38958	c	j	40.7	7.0	7.4	0.95	6.2	6.8	0.91	1.09	1.14	33.5	12.5	20.0	0.60	0.37	1.69	0.30	0.57	33		12.0	0.36	c
UV	Verr.	1	*vaub.*	38959	c	j/sa	50.2	8.6	8.9	0.96	8.2	8.5	0.97	1.05	1.04	40.5	14.0	31.0	0.77	0.35	1.57	0.32	0.62	35	18	18.0	0.44	dc
UV	Verr.	1	*suborb.*	38960	pmpp	sa	40.4	9.9	10.1	0.98	9.3	9.7	0.96	1.04	1.06	37.5	20.0	23.0	0.61	0.53	1.97	0.25	0.50	28		16.0	0.43	c
UV	Verr.	1	*vaub.*	38961	c-pa	j	33.1	5.7	5.8	0.97	4.9	5.3	0.92	1.09	1.16	24.0	9.0	16.5	0.69	0.38	1.55	0.32	0.62	36	18	7.5	0.31	dc
UV	Verr.	1	*orb.*	38962	c-pa	sa	46.9	9.4	10.8	0.87	9.5	9.8	0.97	1.10	0.98	41.0	12.0	31.0	0.76	0.29	1.11	0.45	0.84	48	18	18.0	0.44	dc
LV	Inos.	1	sp.	39048	pmpp	a	37.0																					
LV	Inos.	1	*orb.*	39049	c-pa	j	33.5	7.0	7.6	0.93	6.4	7.0	0.91	1.08	1.10	32.5	10.5	19.5	0.60	0.32	1.39	0.36	0.69	40		13.0	0.40	dc
LV	Inos.	1	sp.	39050	pmpp	a																						
LV	Inos.	1	*orb.*	39051	pmpp	j	32.2	8.7	9.9	0.88	8.3	9.0	0.92	1.10	1.05	31.0	9.5	22.0	0.71	0.31	0.96	0.52	0.96	55		9.0	0.29	c
LV	Inos.	1	*vaub.*	39052	c	a	63.7	11.2	12.4	0.91	10.7	11.5	0.93	1.08	1.05	56.5	17.0	45.0	0.80	0.30	1.38	0.36	0.70	40		23.0	0.41	dc
LV	Inos.	1	*vaub.*	39053	pmpp	sa	38.2	10.0	10.8	0.92	8.7	9.3	0.93	1.16	1.15	35.0	15.0	24.0	0.69	0.43	1.39	0.36	0.69	39		13.0	0.37	d
LV	Inos.	1	*orb.*	39054	pmpp	j	32.7	8.2	9.4	0.88							11.5				1.23	0.41	0.77	44				c
LV	Inos.	1	*orb.*	39055	c	j/sa	47.3	8.3	8.8	0.94	7.4	7.8	0.96	1.14	1.12	44.0	12.0	36.0	0.82	0.27	1.36	0.37	0.71	40		17.0	0.39	dc
LV	Inos.	1	*vaub.*	39056	c-pa	j	43.7	8.4	9.0	0.93	8.2	8.3	0.99	1.09	1.02	38.5	15.0	30.0	0.78	0.39	1.66	0.30	0.58	34		15.5	0.40	c
LV	Inos.	1	sp.	39057	pmpp	sa	39.9																					
LV	Inos.	1	*orb.*	39058	c-pa	j	45.5	8.6	9.5	0.91	8.3	8.7	0.95	1.09	1.04	39.5	13.0	27.0	0.68	0.33	1.37	0.36	0.70	40		16.0	0.41	dc
LV	Inos.	1	*suborb.*	39059	c	sa	45.7	8.4	9.0	0.93	8.6	9.0	0.96	1.00	0.98	38.5	18.0	23.0	0.60	0.47	2.01	0.25	0.49	28		14.0	0.36	c
LV	Inos.	1	*touc.*	39065	c-pa	sa	47,5	9.1	11.3	0.81	8.4	9.7	0.86	1.16	1.09	40.5	17.0	31.0	0.77	0.42	1.51	0.33	0.64	37		15.0	0.37	d
UV	Verr.	1	*vaub.*	39084	c	a	55,8	11.3	12.9	0.88	9.7	10.3	0.94	1.24	1.17	49.0	16.5	37.0	0.76	0.34	1.28	0.39	0.74	43		24.0	0.49	dc
UV	Verr.	1	*vaub.*	39085	c	sa	44.3	8.9	9.6	0.93	7.5	8.2	0.92	1.17	1.18	33.0	14.0	28.0	0.85	0.42	1.46	0.34	0.66	38		15.0	0.45	dc
UV	Verr.	1	*orb.*	39086	c	vj	28.4	4.8	4.9	0.98	4.1	4.5	0.90	1.09	1.18	24.5	7.8	17.0	0.69	0.32	1.57	0.32	0.62	35		7.0	0.29	c
UV	Verr.	1	*suborb.*	39087	c-pa	vj	28.2	4.8	5.1	0.94	4.3	4.6	0.92	1.11	1.13	26.0	12.0	19.0	0.73	0.46	2.33	0.21	0.42	24		8.0	0.31	c
UV	Verr.	1	*vaub.*	39088	pmpp	mj	17.1	4.5	4.4	1.02	3.5	3.8	0.94	1.16	1.27	16.5	7.5	10.0	0.61	0.45	1.72	0.29	0.57	32				dc
UV	Verr.	1	*touc.*	39089	c	vj	30.1	4.6	5.0	0.92	4.2	4.7	0.90	1.07	1.10	25.5	8.0	19.5	0.76	0.31	1.60	0.31	0.61	35		9.0	0.35	d

4	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldlv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*orb.*	39090	c	j/sa	42.9	8.2	8.5	0.96	7.8	8.2	0.94	1.03	1.06	39.0	9.5	30.0	0.77	0.24	1.12	0.45	0.84	48		17.0	0.44	c
UV	Verr.	1	*suborb.*	39091	c	a	52.5	9.9	10.4	0.95	9.9	9.9	1.00	1.05	1.00	43.5	20.0	32.0	0.74	0.46	1.92	0.26	0.51	29	18	19.5	0.45	c
UV	Verr.	1	*orb.*	39092	c	j	38.5	7.0	7.5	0.94	6.8	7.2	0.94	1.04	1.03	35.0	10.0	25.0	0.71	0.29	1.34	0.37	0.71	41		15.0	0.43	c
UV	Verr.	1	sp.	39093	pmpp	j	30.0																					
UV	Verr.	1	*orb.*	39094	c-pa	a	51.0	10.8	11.4	0.95	10.1	10.9	0.93	1.04	1.07	43.0	11.0	34.0	0.79	0.26	0.97	0.52	0.95	55	18	17.5	0.41	c
UV	Verr.	1	*vaub.*	39095	c	j/sa	45.1	7.7	8.7	0.89	7.7	8.1	0.95	1.08	1.01	32.5	13.0	21.0	0.65	0.40	1.49	0.34	0.65	37		15.0	0.46	dc
UV	Verr.	1	*touc.*	39096	pmpp	sa	33.1	8.6	10.0	0.86	8.2	9.2	0.89	1.08	1.04	31.5	14.0	23.0	0.73	0.44	1.40	0.36	0.68	39		11.5	0.37	dc
UV	Verr.	1	*vaub.*	39097	pmpp	sa	45.7	10.2	11.0	0.93	8.9	9.9	0.90	1.10	1.14	38.0	16.0	24.0	0.63	0.42	1.46	0.34	0.66	38		12.5	0.33	dc
UV	Verr.	1	*orb.*	39098	pmpp	j/sa	38.5	8.5	8.7	0.98	7.6	7.6	0.99	1.14	1.12	36.0	10.5	26.0	0.72	0.29	1.21	0.41	0.78	45		12.5	0.35	c
UV	Verr.	1	*orb.*	39099	pmpp	a	34.5	10.7	12.2	0.88							13.0				1.07	0.47	0.88	50				c
UV	Verr.	1	*orb.*	39100	c-pa	j	31.7	6.6	6.9	0.95	5.5	6.1	0.90	1.13	1.19	27.0	9.0	19.0	0.70	0.33	1.30	0.39	0.74	42		9.0	0.33	dc
UV	Verr.	1	*vaub.*	39111	c-pa	sa	44.9	9.2	10.0	0.91	9.0	9.3	0.97	1.08	1.02	40.0	15.0	29.0	0.73	0.38	1.50	0.33	0.65	37		19.5	0.49	dc
UV	Verr.	1	*orb.*	39112	pmpp	sa	40.2	10.0	10.9	0.93	10.1	10.5	0.96	1.03	1.00	38.0	11.5	25.5	0.67	0.30	1.06	0.47	0.88	51		15.0	0.39	c
UV	Verr.	1	*orb.*	39113	pmpp	sa	34.9	9.1	10.2	0.89	8.6	9.3	0.92	1.10	1.06	33.0	11.0	24.0	0.73	0.33	1.08	0.46	0.87	50		15.0	0.45	dc
UV	Verr.	1	*orb.*	39114	pmpp	a	44.1	10.8	12.0	0.90	9.7	10.2	0.95	1.18	1.12	43.0	14.0	34.0	0.79	0.33	1.16	0.43	0.81	47		19.0	0.44	c
UV	Verr.	1	*vaub.*	39115	pmpp	sa	41.1	9.2	9.9	0.93	8.8	9.1	0.97	1.09	1.05	37.0	15.0	28.0	0.76	0.41	1.51	0.33	0.64	37		14.0	0.38	dc
UV	Verr.	1	*suborb.*	39279	c-pa	vj	27.3	5.1	5.2	0.98	4.7	5.0	0.92	1.03	1.09	26.5	10.5	19.0	0.72	0.40	2.02	0.25	0.48	28		9.0	0.34	c
UV	Verr.	1	*orb.*	39336	pmpp	a	39.8	11.6	12.3	0.94	10.3	11.5	0.89	1.07	1.14	37.0	12.5	29.0	0.78	0.34	1.01	0.49	0.92	53		16.0	0.43	c
UV	Verr.	1	*orb.*	39337	pp	j	23.7	8.6	9.0	0.95							12.3				1.36	0.37	0.71	40				c
UV	Verr.	1	*orb.*	39422	pp	j	19.6	7.1	7.6	0.94							9.5				1.26	0.40	0.76	43				c
UV	Verr.	1	*orb.*	39445	c	j	39.6	7.7	8.3	0.92	7.3	7.9	0.92	1.05	1.05	35.0	11.0	25.0	0.71	0.31	1.32	0.38	0.72	41		17.5	0.50	c
UV	Verr.	1	sp.	39446	pmpp	sa	32.4																					
LV	Neoc.	1	*touc.*	39875	c	a	53.3	10.5	11.8	0.89	9.3	9.8	0.94	1.19	1.13	45.0	13.0	38.0	0.84	0.29	1.11	0.45	0.85	49		15.0	0.33	dc
UV	Furc.	1	sp.	39878	c	j	40,1																					
UV	Verr.	1	*touc.*	40687	c-pa	sa	40.6	8.1	9.9	0.82	7.0	8.2	0.85	1.21	1.17	37.5	14.0	31.0	0.83	0.37	1.41	0.35	0.68	39		15.0	0.40	d
LV	Neoc.	1	sp.	40713	pmpp	j	43,5	"spir																				
UV	Verr.	1	*orb.*	40747	c	j	44.3	8.5	9.4	0.90	8.2	9.0	0.92	1.05	1.03	38.5	8.5	29.0	0.75	0.22	0.91	0.55	1.01	58		18.0	0.47	c
UV	Verr.	1	*orb.?*	40748	pmpp	sa	36.5	8.9	9.9	0.90	9.5	10.2	0.93	0.97	0.94	33.5	13.0	21.0	0.63	0.39	1.31	0.38	0.73	42		14.0	0.42	c
UV	Verr.	1	*orb.*	40749	pmpp	sa	41.4	9.9	10.8	0.92	8.7	9.4	0.93	1.15	1.13	32.0	11.5	21.0	0.66	0.36	1.07	0.47	0.88	50		10.0	0.31	c
UV	Verr.	1	*vaub.*	40750	pp	sa	30.9	10.1	10.3	0.98							16.0				1.56	0.32	0.62	36				dc
UV	Verr.	1	*suborb.*	40751	c	sa	50.4	8.6	9.9	0.87	8.4	8.5	0.99	1.17	1.03	43.0	17.0	33.0	0.77	0.40	1.71	0.29	0.57	33		16.0	0.37	c
UV	Verr.	1	sp.	40752	pmpp	sa																						
UV	Verr.	1	*vaub.*	40753	pmpp	j	32.8	6.8	7.8	0.88	7.0	7.3	0.96	1.06	0.97	30.5	12.0	19.0	0.62	0.39	1.55	0.32	0.62	36		11.0	0.36	dc
UV	Verr.	1	*vaub.*	40754	pmpp	j	26.2	5.8	6.1	0.95	5.4	5.8	0.93	1.07	1.09	24.5	9.0	18.0	0.73	0.37	1.47	0.34	0.66	38				d
UV	Verr.	1	*orb.*	40756	pmpp	a	35.3	10.1	11.8	0.86							12.5				1.06	0.47	0.88	50				c
UV	Verr.	1	*vaub.*	40776	pmpp	sa	34.2	9.8	10.5	0.93							15.0				1.43	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	40799	pp	j/sa	24.5	8.5	9.3	0.91							14.0				1.50	0.33	0.64	37				dc
UV	Verr.	1	*touc.*	40819	c-pa	j	36.3	7.0	8.0	0.87	6.0	6.6	0.91	1.22	1.16	32.0	11.0	22.0	0.69	0.34	1.37	0.37	0.70	40		12.0	0.38	d
UV	Verr.	1	*vaub.*	40820	pmpp	sa	32.0	9.8	10.1	0.97							15.0				1.49	0.34	0.65	37				dc
UV	Verr.	1	*touc.*	40891	pmpp	sa	34,3	8.5	9.8	0.87							13.0				1.33	0.38	0.72	41				dc
UV	Verr.	1	*orb.*	41077	c-pa	a	51.2	9.7	10.9	0.89	10.0	10.3	0.97	1.06	0.97	42.0	13.0	30.0	0.71	0.31	1.19	0.42	0.79	45		20.0	0.48	c
UV	Verr.	1	*vaub.*	41078	pp	sa	32.2	9.5	10.1	0.94							13.5				1.33	0.38	0.72	41				dc
UV	Verr.	1	*vaub.*	41079	pmpp	a	46.4	12.2	13.0	0.93	11.7	12.0	0.98	1.08	1.04	44.5	18.5	32.0	0.72	0.42	1.42	0.35	0.68	39				
UV	Verr.	1	*vaub.*	41080	pmpp	a	40.4	10.0	10.5	0.95	8.7	9.1	0.96	1.16	1.15	38.5	15.0	26.0	0.68	0.39	1.42	0.35	0.68	39		12.0	0.31	dc
UV	Verr.	1	*vaub.*	41081	pmpp	a	43.2	10.4	11.0	0.95	8.9	9.7	0.92	1.14	1.17	37.0	14.5	30.0	0.81	0.39	1.31	0.38	0.73	42		12.0	0.32	dc
UV	Pere.	1	*orb.*	41082	pmpp	j	30.8	8.1	9.2	0.89	7.5	8.5	0.88	1.08	1.08	29.0	9.5	21.0	0.72	0.33	1.04	0.48	0.90	52		9.0	0.31	c
LV	Inos.	1	*touc.*	41083	pmpp	sa	33.3	8.4	9.9	0.84	8.1	9.3	0.87	1.07	1.03	31.5	14.0	21.5	0.68	0.44	1.41	0.35	0.68	39		9.0	0.29	d
LV	Inos.	1	*touc.*	41084	pmpp	sa	30.4	8.2	10.2	0.81							15.0				1.47	0.34	0.65	38				d
UV	Verr.	1	*vaub.*	41157	c	sa	55.3	9.9	10.9	0.91	9.1	9.5	0.95	1.14	1.10	43.0	15.0	30.5	0.71	0.35	1.38	0.36	0.69	40		19.0	0.44	dc
UV	Verr.	1	*orb.*	41158	pmpp	vj/j	27.7	5.9	6.0	0.98	5.0	5.5	0.90	1.09	1.19	26.0	9.0	19.0	0.73	0.35	1.50	0.33	0.64	37		8.0	0.31	c
UV	Verr.	1	*orb.*	41159	pp	sa	33.8	8.2	9.3	0.88	7.7	7.9	0.97	1.18	1.07	30.5	10.5	21.0	0.69	0.34	1.12	0.44	0.84	48		12.0	0.39	c
UV	Verr.	1	sp.	41160	pmpp	j	24.3																					
UV	Verr.	1	*vaub.*	41161	pmpp	j	39.8	8.4	9.0	0.93	7.2	7.6	0.94	1.19	1.17	36.0	13.5	27.0	0.75	0.38	1.49	0.33	0.65	37		12.0	0.33	dc
UV	Verr.	1	*orb.*	41162	c-pa	vj	29.9	5.6	6.1	0.92	4.8	5.4	0.88	1.12	1.17	25.5	8.0	17.5	0.69	0.31	1.32	0.38	0.73	42		8.5	0.33	dc
UV	Verr.	1	*vaub.*	41163	pmpp	sa	40.6	9.3	9.6	0.97	7.8	8.3	0.94	1.16	1.19	38.0	14.5	28.0	0.74	0.38	1.51	0.33	0.64	37		12.0	0.32	dc
UV	Verr.	1	*orb.*	41164	pmpp	j	26.4	6.5	6.4	1.00	6.0	6.3	0.96	1.03	1.08	25.5	8.0	19.0	0.75	0.31	1.24	0.40	0.77	44		10.0	0.39	dc
UV	Verr.	1	*touc.*	41165	pmpp	sa	35.5	8.7	9.9	0.88	7.8	8.6	0.91	1.15	1.11	33.0	14.0	22.0	0.67	0.42	1.42	0.35	0.68	39		12.5	0.38	dc
UV	Verr.	1	*vaub.*	41166	pmpp	j/sa	38.5	8.8	9.2	0.95	8.1	8.4	0.96	1.09	1.08	34.0	15.0	23.0	0.68	0.44	1.63	0.31	0.60	34		13.0	0.38	dc
LV	Neoc.	1	*orb.*	41167	c-pa	a	47.8	11.6	12.9	0.90	8.9	9.7	0.92	1.34	1.31	41.5	9.5	32.0	0.77	0.23	0.73	0.68	1.20	68		18.0	0.43	c
LV	Neoc.	1	*vaub.*	41168	c-pa	j	41.8	7.3	8.1	0.90	6.3	6.7	0.94	1.20	1.15	37.0	13.0	26.0	0.70	0.35	1.61	0.31	0.60	34		12.0	0.32	c
LV	Neoc.	1	*orb.*	41169	pmpp	j	35.7	6.8	7.8	0.87	6.9	7.2	0.95	1.08	0.98	30.0	10.0	21.0	0.70	0.33	1.28	0.39	0.75	43		10.0	0.33	c
LV	Neoc.	1	*suborb.*	41170	c-pa	sa	45.4	9.2	10.1	0.91	8.3	8.9	0.93	1.13	1.11	41.5	18.5	28.5	0.69	0.45	1.83	0.27	0.53	31		15.5	0.37	c
LV	Neoc.	1	*vaub.*	41171	c-pa	sa	43.5	7.9	8.7	0.90	6.9	7.6	0.91	1.16	1.15	38.0	14.0	31.0	0.82	0.37	1.60	0.31	0.60	35		12.0	0.32	dc
LV	Neoc.	1	*vaub.*	41172	c-pa	sa	41.0	8.3	9.3	0.90	7.2	7.9	0.90	1.17	1.16	37.0	15.0	25.5	0.69	0.41	1.62	0.31	0.60	34		14.0	0.38	dc
LV	Neoc.	1	*vaub.*	41173	c-pa	j	30.3	5.7	6.1	0.93	4.0	4.6	0.88	1.33	1.41	26.5	10.0	18.0	0.68	0.38	1.64	0.31	0.59	34		9.5	0.36	dc
LV	Neoc.	1	*vaub.*	41174	c-pa	a	54.0	11.0	12.3	0.89	9.5	10.2	0.92	1.21	1.16	47.0	15.5	38.0	0.81	0.33	1.26	0.40	0.76	43		21.0	0.45	dc
LV	Neoc.	1	*touc.*	41175	c	sa	48.5	7.1	8.0	0.88	7.3	7.8	0.94	1.03	0.96	41.0	12.0	31.5	0.77	0.29	1.49	0.33	0.65	37		14.5	0.35	d
LV	Neoc.	1	*vaub.*	41176	c	vj	27.6	4.8	5.3	0.91	3.9	4.0	0.97	1.33	1.24	22.0	9.5	15.0	0.68	0.43	1.78	0.28	0.55	31		5.5	0.25	dc
LV	Neoc.	1	*suborb.*	41177	pmpp	sa	44.1	8.4	9.1	0.92	8.5	9.4	0.91	0.97	0.99	39.0	18.0	24.0	0.62	0.46	1.98	0.25	0.49	28		15.0	0.38	c
LV	Neoc.	1	*vaub.*	41178	pmpp	j	32.5	6.3	6.8	0.93	6.0	6.6	0.91	1.02	1.04	28.5	11.5	18.5	0.65	0.40	1.70	0.29	0.57	33		9.0	0.32	dc
UV	Verr.	1	*touc.*	42143	pp	sa	25.6	8.5	9.9	0.86							14.5				1.47	0.34	0.66	38				
UV	Verr.	1	*vaub.*	42144	pp	j	17.0	6.2	6.7	0.93							10.0				1.50	0.33	0.64	37				dc
LV	Pert.	1	*touc.*	42151	pmpp	j	30.3	7.1	7.8	0.91	6.6	7.1	0.92	1.10	1.08	29.0	11.0	22.0	0.76	0.38	1.41	0.35	0.68	39		9.0	0.31	d
LV	Pert.	1	*touc.*	42152	pmpp	vj	23.9	4.9	5.4	0.90	4.3	5.0	0.87	1.09	1.13	22.5	10.5	13.0	0.58	0.47	1.94	0.26	0.51	29		8.0	0.36	d
LV	Pert.	1	*touc.*	42153	pmpp	vj	22.5	5.6	6.2	0.90							9.0				1.44	0.35	0.67	38				d
LV	Pert.	1	*vaub.*	42162	pmpp	a	36.6	10.2	11.5	0.89							13.0				1.13	0.44	0.83	48				dc
LV	Neoc.	1	*vaub.*	43558	c-pa	a	59.4	11.8	13.8	0.86	10.3	11.2	0.92	1.23	1.15	53.0	17.0	39.0	0.74	0.32	1.24	0.40	0.77	44		20.0	0.38	c
LV	Neoc.	1	*orb.*	43559	c-pa	j	41.9	6.9	7.9	0.87	7.5	7.8	0.96	1.02	0.93	37.5	9.5	26.5	0.71	0.25	1.20	0.42	0.79	45		14.0	0.37	dc
LV	Neoc.	1	*vaub.*	43560	c	sa	54.3	9.0	10.1	0.89	8.5	8.8	0.97	1.15	1.06	42.0	14.5	29.0	0.69	0.35	1.44	0.35	0.67	38		14.5	0.35	dc
LV	Neoc.	1	*touc.*	43561	c-pa	j	28.7	5.4	6.0	0.90	4.9	5.4	0.91	1.11	1.10	25.5	9.0	17.0	0.67	0.35	1.50	0.33	0.64	37		7.5	0.29	d

s	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*vaub.*	43562	pp pm	a	48.5	10.5	12.1	0.86	9.9	11.1	0.90	1.09	1.05	46.0	16.5	33.0	0.72	0.36	1.36	0.37	0.70	40		12.0	0.26	dc
LV	Neoc.	1	*touc.*	43563	pmpp	sa	41.4	8.1	9.4	0.86	8.1	8.6	0.93	1.08	1.00	36.5	13.0	27.5	0.75	0.36	1.39	0.36	0.69	40		14.0	0.38	dc
LV	Neoc.	1	*touc.*	43564	c-pa	j	45.3																					
LV	Neoc.	1	*touc.*	43565	pmpp	j	35.3	6.9	8.2	0.84	6.4	6.9	0.93	1.19	1.08	32.0	12.0	22.0	0.69	0.38	1.46	0.34	0.66	38		10.5	0.33	d
LV	Neoc.	1	*touc.*	43566	c-pa	sa	45.4	8.4	9.9	0.85	7.7	8.7	0.89	1.14	1.09	41.0	14.5	29.0	0.71	0.35	1.47	0.34	0.66	38		15.5	0.38	d
LV	Neoc.	1	*touc.*	43567	c-pa	sa	49.1	9.1	11.1	0.82	8.5	9.6	0.89	1.16	1.07	41.5	13.0	31.5	0.76	0.31	1.17	0.43	0.81	46	18	16.0	0.39	dc
LV	Neoc.	1	*touc.*	43568	c-pa	j	33.7	5.4	6.3	0.86	4.7	5.2	0.90	1.21	1.15	29.0	10.0	21.0	0.72	0.34	1.58	0.32	0.61	35		6.5	0.22	d
LV	Neoc.	1	*touc.*	43569	c-pa	j	32.3	5.3	5.9	0.90	4.3	5.0	0.87	1.18	1.21	27.0	9.0	17.0	0.63	0.33	1.54	0.33	0.63	36		6.0	0.22	c
LV	Neoc.	1	*suborb.*	43570	c-pa	j	31.6	5.4	5.6	0.98	5.0	5.0	1.00	1.11	1.08	29.0	12.5	20.0	0.69	0.43	2.25	0.22	0.44	25		9.5	0.33	c
LV	Neoc.	1	*suborb.*	43571	c-pa	sa	47.6																					
LV	Neoc.	1	*touc.*	43572	c-pa	j	39.1	7.6	8.7	0.87	6.9	7.6	0.91	1.14	1.10	36.0	13.5	22.0	0.61	0.38	1.56	0.32	0.62	36		12.5	0.35	d
LV	Neoc.	1	*vaub.*	43573	c	j	41.0	6.8	7.5	0.91	5.9	6.4	0.92	1.17	1.15	34.0	11.0	24.5	0.72	0.32	1.47	0.34	0.66	38		10.0	0.29	c
LV	Neoc.	1	*orb.*	43574	c	j	32.2	6.0	6.5	0.91	5.5	5.7	0.96	1.14	1.09	28.5	9.0	22.0	0.77	0.32	1.38	0.36	0.69	40		10.0	0.35	c
LV	Neoc.	1	*touc.*	43575	c-pa	j	33.8	5.2	6.0	0.87	4.8	5.5	0.87	1.10	1.09	28.5	10.0	20.0	0.70	0.35	1.67	0.30	0.58	33		7.0	0.25	d
LV	Neoc.	1	*vaub.*	43576	pmpp	a	37.4	11.6	13.3	0.87							16.5				1.24	0.40	0.77	44				dc
LV	Neoc.	1	*vaub.*	43577	pmpp	sa	42.3	9.1	10.1	0.90	8.5	9.6	0.88	1.05	1.07	37.5	13.5	25.0	0.67	0.36	1.33	0.38	0.72	41	18	14.0	0.37	dc
LV	Neoc.	1	*touc.*	43578	pmpp	a	36.4	10.6	12.2	0.87							16.0				1.31	0.38	0.73	42				
LV	Neoc.	1	*touc.*	43579	pmpp	j	32.0	6.9	7.6	0.90							12.5				1.64	0.31	0.59	34				d
LV	Neoc.	1	*touc.*	43580	pmpp	j	27.0	7.2	8.2	0.88							10.5				1.29	0.39	0.74	42				dc
LV	Neoc.	1	*touc.*	43581	pmpp	j	25.5	6.9	7.7	0.90							13.5				1.76	0.28	0.55	32				d
LV	Neoc.	1	sp.	43582	section	sa	52.4																		18			
LV	Neoc.	1	*touc.*	43583	pmpp	j	28.4	7.5	8.7	0.87	6.3	7.5	0.84	1.15	1.18	27.0	11.0	20.0	0.74	0.41	1.27	0.39	0.75	43		7.0	0.26	dc
LV	Neoc.	1	*vaub.*	43585	c-pa	j	28.3	5.6	6.0	0.94	5.4	5.5	0.97	1.08	1.04	25.0	9.5	16.0	0.64	0.38	1.59	0.31	0.61	35		8.5	0.34	dc
LV	Neoc.	1	*suborb.*	43586	c-pa	j	33.0	5.3	5.9	0.89	4.0	4.4	0.92	1.35	1.31	28.5	13.0	19.0	0.67	0.46	2.20	0.23	0.45	26		7.0	0.25	dc
LV	Neoc.	1	*vaub.*	43587	pmpp	sa	41.5	8.7	9.7	0.91	7.0	8.1	0.87	1.20	1.25	38.0	14.0	28.0	0.74	0.37	1.45	0.34	0.66	38		14.5	0.38	c
LV	Neoc.	1	*touc.*	43588	c-pa	j	33.8	5.8	6.7	0.87	5.5	5.8	0.96	1.17	1.06	29.5	10.0	20.5	0.69	0.34	1.49	0.34	0.65	37		10.0	0.34	dc
LV	Neoc.	1	*suborb.*	43589	pmpp	sa	40.0	8.2	9.3	0.88	7.7	8.4	0.92	1.10	1.06	36.5	17.5	24.5	0.67	0.48	1.88	0.27	0.52	30		14.0	0.38	c
LV	Neoc.	1	*orb.*	43590	c	mj	16.2	3.0	3.2	0.93	2.4	2.7	0.90	1.21	1.25	13.0	4.5	8.0	0.62	0.35	1.39	0.36	0.69	39		2.5	0.19	dc
UV	Verr.	1	*vaub.*	43594	pp	a	24.5	11.4	12.4	0.92																		
UV	Verr.	1	sp.	43595	pmpp	j																						
LV	Pert.	1	*touc.*	48582	pmpp	sa	34.9	8.2	10.2	0.81	8.3	9.3	0.90	1.09	0.99	34.0	11.5	24.0	0.71	0.34	1.13	0.44	0.83	48		15.0	0.44	dc
LV	Pert.	1	*touc.*	48583	pmpp	sa	37.0	8.9	10.0	0.90	8.7	9.7	0.89	1.02	1.03	34.5	16.0	23.0	0.67	0.46	1.61	0.31	0.60	35		9.0	0.26	d
LV	Neoc.	1	*suborb.*	52162	c	j	43.8	8.9	9.0	0.98	8.3	8.1	1.02	1.11	1.07	37.5	17.0	26.0	0.69	0.45	1.89	0.27	0.52	30		15.0	0.40	c
LV	Neoc.	1	*touc.*	52195	c-pa	j	38.3	6.6	7.8	0.85	6.0	6.6	0.90	1.17	1.09	31.5	13.0	20.0	0.63	0.41	1.68	0.30	0.58	33		9.5	0.30	d
LV	Neoc.	1	*orb.*	52196	pmpp	vj	21.6	4.3	4.7	0.91	3.4	3.9	0.88	1.23	1.27	19.0	7.0	14.0	0.74	0.37	1.48	0.34	0.65	37		4.5	0.24	c
LV	Neoc.	1	*vaub.*	52197	pmpp	sa	43.6	9.0	10.3	0.87	8.5	8.9	0.95	1.16	1.06	40.0	15.5	26.0	0.65	0.39	1.50	0.33	0.64	37		12.0	0.30	dc
UV	Verr.	1	sp.	52219	c	j	37.9																0.00					
UV	Verr.	1	*touc.*	52702	c-pa	sa	44.9	8.3	9.4	0.89	8.0	8.3	0.96	1.13	1.05	38.5	13.0	29.0	0.75	0.34	1.39	0.36	0.69	40		14.5	0.38	dc
UV	Verr.	1	*orb.*	52703	c-pa	j	33.3	7.4	7.8	0.95	6.0	6.7	0.89	1.17	1.24	30.0	11.0	20.0	0.67	0.37	1.41	0.35	0.68	39		11.0	0.37	dc
UV	Verr.	1	*orb.*	52704	pmpp	a	41.6	10.1	11.4	0.89	9.7	10.3	0.94	1.11	1.05	36.5	13.0	24.0	0.66	0.36	1.14	0.44	0.83	47		17.0	0.47	c
LV	Inos.	1	*orb.*	52730	pmpp	sa	34.8	8.5	9.3	0.91							9.5				1.02	0.49	0.91	52	18			c
LV	Inos.	1	*orb.*	52731	c-pa	j	34.2	7.5	8.0	0.93	6.6	7.2	0.92	1.11	1.13	30.5	9.5	20.0	0.66	0.31	1.18	0.42	0.80	46		10.5	0.34	dc
LV	Inos.	1	*orb.*	52732	c	sa	48.5	9.1	10.4	0.88	8.2	8.3	1.00	1.26	1.11	43.0	11.0	29.5	0.69	0.26	1.06	0.47	0.88	50		15.5	0.36	dc
LV	Inos.	1	*orb.*	52733	c	j	37.6	8.2	9.0	0.91	6.8	7.3	0.93	1.23	1.21	34.0	9.5	24.5	0.72	0.28	1.06	0.47	0.88	51		14.0	0.41	dc
LV	Inos.	1	*orb.*	52734	c	sa	49.9	8.9	9.5	0.94	7.0	7.5	0.93	1.26	1.27	46.0	12.5	36.0	0.78	0.27	1.32	0.38	0.72	42		14.5	0.32	dc
LV	Inos.	1	sp.	52735	pmpp	sa																						
UV	Verr.	1	*vaub.*	52738	pmpp	j	31.7	7.9	8.5	0.93							13.0				1.53	0.33	0.63	36				c
UV	Verr.	1	*suborb.*	52739	c-pa	j	29.9	6.0	6.1	0.99	5.3	5.6	0.95	1.09	1.13	27.5	13.5	17.0	0.62	0.49	2.23	0.22	0.44	25		10.0	0.36	d
UV	Verr.	1	*orb.*	52740	pmpp	sa	43.5	9.9	11.3	0.87	9.7	10.6	0.92	1.07	1.02	41.5	11.0	32.0	0.77	0.27	0.97	0.52	0.95	54		19.0	0.46	c
UV	Verr.	1	*vaub.*	52741	pmpp	sa	40.9	9.2	9.7	0.95	8.0	8.2	0.97	1.18	1.15	39.0	13.8	27.0	0.69	0.35	1.42	0.35	0.68	39		13.0	0.33	c
UV	Verr.	1	*orb.*	52742	pp	sa	31.7	9.9	10.9	0.91							11.0				1.01	0.50	0.92	53				c
UV	Verr.	1	*vaub.*	52743	pmpp	sa	33.9	9.4	10.0	0.94							15.5				1.56	0.32	0.62	36				dc
UV	Verr.	1	*orb.*	52744	c	sa	50.7	8.6	9.5	0.91	7.8	8.3	0.94	1.14	1.10	41.5	12.0	36.5	0.88	0.29	1.26	0.40	0.75	43		14.0	0.34	c
UV	Verr.	1	*vaub.*	52745	c	vj	30.3	5.7	5.9	0.96	5.1	5.3	0.96	1.11	1.11	26.0	10.0	12.0	0.46	0.38	1.68	0.30	0.58	33		9.5	0.37	d
UV	Pere.	1	*orb.*	52894	pmpp	j/sa	31.6	8.6	8.6	1.00	8.3	8.5	0.98	1.02	1.03	30.0	11.0	19.0	0.63	0.37	1.27	0.39	0.75	43		10.0	0.33	c
UV	Pere.	1	*vaub.*	52895	pmpp	j	29.6	7.7	8.3	0.93	7.0	7.9	0.89	1.05	1.10	28.0	12.5	19.0	0.68	0.45	1.51	0.33	0.64	37		10.0	0.36	dc
UV	Pere.	1	*vaub.*	52896	pmpp	j	31.6	7.9	8.0	0.99	7.1	7.8	0.92	1.03	1.10	29.0	13.0	13.0	0.45	0.45	1.63	0.31	0.59	34		10.5	0.36	dc
UV	Pere.	1	*vaub.*	52897	pp	j	19.9	6.2	6.3	0.99							11.0				1.75	0.29	0.56	32				dc
UV	Pere.	1	*vaub.*	52898	pp	j		7.7	8.1	0.95							14.0				1.73	0.29	0.56	32				dc
UV	Verr.	1	*orb.*	52929	pmpp	j	35.8	8.0	8.0	0.99	7.6	7.4	1.02	1.08	1.05	31.0	11.0	22.0	0.71	0.35	1.38	0.36	0.70	40		10.5	0.34	c
UV	Verr.	1	*touc.*	52930	c-pa	sa	42.4	8.8	10.3	0.85	7.9	8.4	0.95	1.23	1.11	37.5	12.5	32.0	0.85	0.33	1.21	0.41	0.78	45		12.0	0.32	dc
UV	Pere.	1	sp.	53069	pmpp																							
UV	Verr.	1	*vaub.*	53326	c	a	58.8	10.0	10.5	0.95	10.1	10.4	0.97	1.01	0.99	45.0	15.0	31.0	0.69	0.33	1.43	0.35	0.67	39		20.0	0.44	dc
UV	Verr.	1	*vaub.*	53327	c-pa	j	32.7	6.4	6.8	0.95	5.4	5.6	0.96	1.21	1.19	28.5	11.0	20.0	0.70	0.39	1.62	0.31	0.60	34		9.5	0.33	dc
UV	Neoc.	1	*touc.*	53369	c-pa	sa	43.5	8.7	9.8	0.89	7.9	8.6	0.92	1.14	1.10	37.0	11.5	29.0	0.78	0.31	1.17	0.43	0.80	46		12.0	0.32	d
LV	Neoc.	1	*touc.*	53371	pmpp	sa	40.8	8.2	9.3	0.88	7.5	8.0	0.94	1.16	1.09	35.0	12.5	24.0	0.69	0.36	1.35	0.37	0.71	41	18	16.5	0.47	dc
LV	Neoc.	1	*orb.*	53372	c-pa	a	45.8	9.3	11.0	0.85	9.4	10.3	0.91	1.07	1.00	39.0	11.5	28.0	0.72	0.29	1.05	0.48	0.89	51		16.0	0.41	dc
LV	Neoc.	1	*suborb.*	53373	c-pa	j	40.9	6.8	7.7	0.88	6.1	6.6	0.92	1.16	1.10	34.5	14.0	27.0	0.78	0.41	1.82	0.27	0.54	31		9.0	0.26	c
LV	Neoc.	1	*touc.*	53374	pmpp	j																						d
LV	Neoc.	1	*touc.*	53375	c-pa	j	34.5	6.6	7.6	0.88	6.1	6.6	0.93	1.15	1.09	30.0	11.5	20.0	0.67	0.38	1.52	0.33	0.63	36		9.0	0.30	d
LV	Neoc.	1	*suborb.*	53376	c	j	48.2	7.3	8.0	0.91	6.7	7.2	0.93	1.11	1.08	37.0	18.5	26.0	0.70	0.50	2.33	0.21	0.42	24		12.0	0.32	c
UV	Verr.	1	*orb.*	53416	c-pa	j	32.5	6.4	7.2	0.90	5.6	6.4	0.88	1.12	1.15	27.5	10.0	20.0	0.73	0.36	1.40	0.36	0.69	39		9.5	0.35	dc
UV	Verr.	1	*orb.*	53475	pmpp	j	31.5	7.9	8.3	0.95	6.9	7.3	0.95	1.15	1.14	29.0	9.5	21.0	0.72	0.33	1.14	0.44	0.83	47		9.5	0.33	dc
LV	Pert.	1	*touc.*	53605	pmpp	sa	32,8	7.2	8.2	0.88							13.0				1.59	0.32	0.61	35				d
LV	Neoc.	1	*suborb.*	53773	pmpp	a	47.0	11.5	13.7	0.84							25.0				1.82	0.27	0.53	31				c
LV	Neoc.	1	*vaub.*	53774	c-pa	sa	49.1	9.9	11.2	0.88	9.7	10.1	0.96	1.11	1.02	45.0	15.0	31.0	0.69	0.33	1.34	0.37	0.71	41		19.0	0.42	dc
LV	Neoc.	1	*orb.*	53775	c	sa	40.6	8.6	9.5	0.91	7.6	8.2	0.93	1.15	1.13	33.0	10.0	24.0	0.73	0.30	1.06	0.47	0.88	51		10.0	0.30	c
LV	Neoc.	1	*vaub.*	53776	c	vj	27.3	5.1	5.5	0.92	4.1	4.6	0.89	1.21	1.25	23.0	9.5	16.0	0.70	0.41	1.73	0.29	0.56	32		6.0	0.26	dc
LV	Neoc.	1	*touc.*	53777	c-pa	j/sa	41.2	8.5	9.9	0.85	8.1	9.3	0.87	1.07	1.04	38.0	13.0	26.5	0.70	0.34	1.31	0.38	0.73	42		14.0	0.37	d
LV	Neoc.	1	*suborb.*	53779	c-pa	j	32.9	5.4	6.1	0.89	4.9	5.6	0.88	1.09	1.10	30.0	13.0	21.0	0.70	0.43	2.13	0.23	0.46	26		9.5	0.32	dc

6	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*touc.*	53780	c	j	44.0	7.0	7.9	0.89	6.0	6.4	0.94	1.24	1.18	37.5	10.5	29.5	0.79	0.28	1.33	0.38	0.72	41		10.5	0.28	dc
LV	Neoc.	1	*vaub.*	53781	c	j	32.2	6.8	7.2	0.94	4.8	5.8	0.83	1.23	1.40	30.0	12.0	18.0	0.60	0.40	1.68	0.30	0.58	33		10.0	0.33	dc
LV	Neoc.	1	*touc.*	53782	c-ap	sa		7.2	8.3	0.87																		
LV	Neoc.	1	*touc.*	53783	c-pa	j	35.8	8.1	9.5	0.86	7.7	8.7	0.89	1.09	1.05	32.0	12.0	21.0	0.66	0.38	1.27	0.40	0.75	43		13.0	0.41	dc
LV	Neoc.	1	*orb.*	53784	pmpp	j	33.4	7.7	8.7	0.89	6.1	6.8	0.89	1.27	1.27	32.0	9.5	25.0	0.78	0.30	1.10	0.46	0.86	49		9.0	0.28	dc
LV	Neoc.	1	sp.	53785	f																							
LV	Neoc.	1	*touc.*	53786	pmpp	sa	30.5	8.0	10.1	0.80							13.0				1.29	0.39	0.74	42				dc
LV	Neoc.	1	*vaub.*	53787	pmpp	j	27.7	6.6	7.1	0.93							10.5				1.48	0.34	0.65	37				dc
UV	Pere.	1	*suborb.*	53916	c-pa	sa	45.1	8.2	8.4	0.97	8.2	8.4	0.97	1.00	1.00	39.5	17.0	32.0	0.81	0.43	2.02	0.25	0.48	28		17.5	0.44	c
UV	Pere.	1	*vaub.*	53917	pmpp	j	32.6	7.8	8.2	0.95	6.8	6.5	1.05	1.28	1.15	30.5	13.0	21.5	0.70	0.43	1.58	0.32	0.61	35		9.0	0.30	dc
UV	Pere.	1	*vaub.*	53918	c-pa	sa/a	54.4	10.4	11.0	0.94	9.7	10.0	0.97	1.11	1.07	44.5	15.5	34.5	0.78	0.35	1.41	0.36	0.68	39		20.5	0.46	dc
UV	Pere.	1	*orb.*	53920	pmpp	j	23.9	5.7	5.9	0.96	4.4	4.9	0.90	1.21	1.29	22.0	8.0	16.0	0.73	0.36	1.35	0.37	0.71	41		8.5	0.39	c
UV	Pere.	1	*suborb.*	53922	c-pa	mj/v	21,6	3.6	3.9	0.93	2.9	3.4	0.87	1.16	1.24	17.5	8.5	12.0	0.69	0.49	2.18	0.23	0.45	26		5.0	0.29	c
UV	Pere.	1	*orb.*	53923	c-pa	j	41.8	8.9	9.7	0.91	7.6	7.9	0.97	1.23	1.17	34.0	9.0	27.0	0.79	0.26	0.93	0.54	0.99	57		15.0	0.44	dc
UV	Pere.	1	*vaub.*	53924	pmpp	a	44.4	10.6	12.1	0.88	9.8	10.8	0.91	1.13	1.09	42.0	17.0	31.0	0.74	0.40	1.40	0.36	0.68	39		23.5	0.56	c
UV	Pere.	1	*vaub.*	53925	c	sa	52.2	9.2	9.9	0.93	7.8	9.0	0.88	1.11	1.17	44.0	15.0	32.0	0.73	0.34	1.52	0.33	0.64	36		19.0	0.43	dc
UV	Pere.	1	*vaub.*	53926	c-pa	j	35.2	7.2	7.4	0.98	6.7	7.2	0.93	1.03	1.08	31.0	13.0	22.5	0.73	0.42	1.76	0.28	0.55	32		12.0	0.39	dc
LV	Neoc.	1	*orb.*	54012	pp	sa	25.6	9.1	10.1	0.90							12.0				1.19	0.42	0.80	46				dc
LV	Neoc.	1	*touc.*	54016	pp	j	20.9	7.6	9.1	0.83							13.0				1.42	0.35	0.68	39				d
UV	Verr.	1	*vaub.*	54055	c-pa	sa	46.4	9.8	10.8	0.91	8.7	9.3	0.93	1.16	1.13	40.5	15.0	30.0	0.74	0.37	1.39	0.36	0.69	40		20.5	0.51	dc
UV	Verr.	1	*orb.*	54056	pmpp	sa	36.1	9.8	11.0	0.89	8.6	9.2	0.94	1.20	1.13	36.0	12.5	23.0	0.64	0.35	1.14	0.44	0.83	47		14.5	0.40	dc
UV	Verr.	1	*orb.*	54057	pp	j/sa	25.3	8.4	9.1	0.93							9.5				1.05	0.48	0.89	51				c
UV	Verr.	1	*vaub.*	54058	pmpp	sa/a	41.2	9.4	10.5	0.89	9.2	9.7	0.95	1.08	1.02	39.0	15.0	27.0	0.69	0.38	1.43	0.35	0.67	38		16.5	0.42	dc
UV	Verr.	1	sp.	54059	pp	a																	0.00					
LV	Neoc.	1	*touc.*	54105	pp	a	34.7	10.1	12.4	0.81							15.0				1.21	0.41	0.78	45				dc
LV	Neoc.	1	*touc.*	54106	pp	j	29.8	8.7	9.8	0.89							13.5				1.38	0.36	0.70	40				d
LV	Neoc.	1	*touc.*	54107	pmpp	j	36.7	8.4	10.1	0.83	7.6	8.7	0.88	1.17	1.11	33.0	12.0			0.36	1.19	0.42	0.80	46		12.5	0.38	d
LV	Neoc.	1	*touc.*	54108	pp	j	35.2	8.0	9.0	0.89							14.0				1.56	0.32	0.62	36				d
UV	Verr.	1	*vaub.*	54111	pmpp	j	31.3	8.6	9.4	0.91							13.0				1.38	0.36	0.70	40				dc
UV	Verr.	1	*vaub.*	54112	pp	sa	30.0	8.8	9.2	0.95							13.5				1.46	0.34	0.66	38				dc
UV	Verr.	1	*orb.*	54125	c	j	48.0	9.0	9.6	0.94	7.3	7.6	0.96	1.26	1.24	38.0	10.8	29.0	0.76	0.28	1.12	0.45	0.84	48		16.0	0.42	c
UV	Verr.	1	*orb.*	54126	c-pa	j	37.8	7.3	7.9	0.92	6.1	6.6	0.91	1.19	1.20	32.0	8.0	24.0	0.75	0.25	1.01	0.49	0.92	52		9.0	0.28	c
UV	Verr.	1	*suborb.*	54127	pmpp	sa	43.1	9.5	10.6	0.89	10.1	11.1	0.91	0.96	0.94	36.0	20.0	26.0	0.72	0.56	1.88	0.27	0.52	30		14.0	0.39	dc
UV	Verr.	1	*suborb.*	54128	pmpp	j	37.8	7.9	8.3	0.96	8.1	8.3	0.98	1.01	0.99	32.0	16.8	23.0	0.72	0.52	2.02	0.25	0.49	28		10.0	0.31	c
UV	Verr.	1	*vaub.*	54129	c-pa	j	34.4	6.4	7.1	0.90	5.8	6.5	0.89	1.10	1.12	27.5	12.5	20.5	0.75	0.45	1.75	0.29	0.56	32		9.0	0.33	dc
UV	Verr.	1	*touc.*	54130	pmpp	a	38.2	9.7	12.9	0.75	9.4	10.9	0.86	1.18	1.03	33.5	14.0	27.0	0.81	0.42	1.08	0.46	0.86	50		16.0	0.48	dc
UV	Verr.	1	*vaub.*	54131	pmpp	j	30.9	8.1	8.4	0.97	7.9	8.3	0.95	1.01	1.03	29.0	14.5	19.0	0.66	0.50	1.74	0.29	0.56	32				dc
UV	Verr.	1	*orb.*	54132	pmpp	sa	31.5	8.7	9.3	0.94	8.6	8.8	0.99	1.06	1.00	30.0	12.5	19.5	0.65	0.42	1.35	0.37	0.71	41				c
UV	Verr.	1	sp.	54170	pmpp																							
LV	Inos.	1	*orb.*	54182	pmpp	a	41.9	12.4	13.6	0.91							13.0				0.96	0.52	0.96	55	18			c
UV	Pere.	1	*touc.*	54262	pp	sa	24.9	8.4	9.9	0.84							15.0				1.51	0.33	0.64	37				dc
LV	Neoc.	1	*vaub.*	54291	c-pa	j	45.2	8.3	8.6	0.96	6.7	7.1	0.94	1.21	1.24	37.0	15.0	24.5	0.66	0.41	1.75	0.29	0.56	32		11.5	0.31	dc
LV	Neoc.	1	*orb.*	54292	c-pa	vj	25.6	4.9	5.5	0.89	4.2	4.6	0.92	1.20	1.15	23.0	7.5	15.0	0.65	0.33	1.37	0.37	0.70	40		8.0	0.35	c
LV	Neoc.	1	*touc.*	54293	c-pa	vj	27.4	4.5	5.0	0.89	3.6	4.4	0.82	1.15	1.26	24.5	8.5	17.5	0.71	0.35	1.69	0.30	0.58	33		6.0	0.24	d
LV	Neoc.	1	*suborb.*	54294	c	vj	25.1	3.7	3.9	0.93	3.1	3.4	0.93	1.17	1.18	22.0	8.0	14.0	0.64	0.36	2.03	0.25	0.48	28		5.5	0.25	c
LV	Neoc.	1	*orb.*	54295	c-pa	j	39.2	7.3	8.0	0.90	7.0	7.3	0.96	1.10	1.03	33.0	9.5	24.0	0.73	0.29	1.18	0.42	0.80	46		10.5	0.32	dc
UV	Verr.	1	*orb.*	54301	c	sa	51.3	10.0	11.1	0.90	8.8	9.1	0.97	1.22	1.14	43.0	11.0	32.5	0.76	0.26	0.99	0.50	0.93	53		17.5	0.41	c
UV	Verr.	1	*orb.*	54302	c-pa	vj	24.4	4.8	5.2	0.92	4.2	4.5	0.92	1.16	1.16	22.0	7.5	14.0	0.64	0.34	1.43	0.35	0.67	39		7.0	0.32	dc
UV	Verr.	1	*suborb.*	54303	pmpp	sa	42.9	8.9	9.9	0.90						38.0	19.5	25.0	0.66	0.51	1.98	0.25	0.50	28	18	15.0	0.39	c
UV	Verr.	1	*vaub.*	54304	pmpp	vj	26.4	5.5	5.6	0.98	4.8	5.0	0.96	1.14	1.15	25.0	10.0	16.0	0.64	0.40	1.78	0.28	0.55	31		8.0	0.32	dc
UV	Verr.	1	*orb.*	54305	c	sa	50.3	9.5	10.4	0.91	9.0	9.1	0.99	1.15	1.06	41.5	11.5	31.0	0.75	0.28	1.10	0.45	0.85	49		17.0	0.41	c
UV	Verr.	1	*orb.*	54306	c-pa	j/sa	38.6	8.6	9.2	0.94	8.4	8.9	0.95	1.03	1.02	33.0	12.0	21.5	0.65	0.36	1.31	0.38	0.73	42		13.5	0.41	c
UV	Verr.	1	*orb.*	54348	pmpp	j	28.9	7.0	7.5	0.93	6.6	7.2	0.92	1.05	1.05	25.0	11.5	17.0	0.68	0.46	1.53	0.33	0.63	36		9.0	0.36	c
LV	Pert.	1	*touc.*	54604	pmpp	sa	33.5	7.6	8.4	0.90							14.0				1.67	0.30	0.58	33				d
LV	Pert.	1	*touc.*	54605	pmpp	j	33.0	8.4	9.7	0.87	8.6	9.8	0.88	1.00	0.99	32.0	14.5	22.0	0.69	0.45	1.49	0.34	0.65	37		11.0	0.34	d
LV	Neoc.	1	*touc.*	57228	c	vj	32.2	5.3	5.9	0.91	4.8	5.4	0.89	1.10	1.12	26.5	10.0	17.0	0.64	0.38	1.70	0.29	0.57	33		7.0	0.26	d
LV	Neoc.	1	*orb.*	57229	c-pa	j	35.3	7.8	7.9	0.99	6.3	6.7	0.93	1.17	1.25	29.0	10.0			0.34	1.27	0.39	0.75	43		10.0	0.34	dc
LV	Inos.	1	*orb.*	57405	c	j	36.7	7.5	7.8	0.97	6.5	6.8	0.96	1.14	1.16	33.0	10.5	26.0	0.79	0.32	1.35	0.37	0.71	41		12.0	0.36	dc
LV	Inos.	1	*touc.*	57406	c	j	43.6	7.5	8.6	0.87	6.9	7.9	0.87	1.09	1.09	37.5	14.0	26.5	0.71	0.37	1.62	0.31	0.60	34		14.0	0.37	dc
LV	Inos.	1	*orb.*	57407	c	sa	49.2	9.2	10.5	0.88	8.0	8.5	0.95	1.24	1.15	43.0	12.0	34.5	0.80	0.28	1.15	0.44	0.82	47		16.5	0.38	c
LV	Inos.	1	*vaub.*	57408	pmpp	j	38.2	7.6	8.2	0.92	7.1	7.8	0.91	1.06	1.07	32.0	13.0	22.0	0.69	0.41	1.58	0.32	0.61	35		13.0	0.41	dc
LV	Inos.	1	*suborb.*	57409	c-pa	j	37.8	6.8	7.3	0.93	6.8	7.7	0.88	0.95	1.00	35.0	14.0	26.0	0.74	0.40	1.93	0.26	0.51	29				c
LV	Inos.	1	sp.	57410	f	a																						
LV	Inos.	1	*vaub.*	57411	c	vj	30.4	5.8	6.4	0.92	5.0	5.5	0.91	1.16	1.16	27.0	11.0	19.0	0.70	0.41	1.73	0.29	0.56	32		7.5	0.28	dc
LV	Inos.	1	*orb.*	57412	c	sa	56.0	9.9	10.6	0.93	7.9	8.1	0.98	1.32	1.26	50.5	11.5	39.0	0.77	0.23	1.08	0.46	0.86	50		18.0	0.36	c
LV	Inos.	1	*touc.*	57441	pmpp	sa	29.9	7.3	8.8	0.83							13.0				1.48	0.34	0.65	37				dc
UV	Verr.	1	*orb.*	57461	pmpp	a	46.7	10.8	12.9	0.84	9.5	10.5	0.91	1.23	1.13	43.5	13.5	34.5	0.79	0.31	1.05	0.48	0.89	51		18.0	0.41	c
UV	Verr.	1	*touc.*	57462	pmpp	sa	35.9	8.8	10.1	0.86	8.4	9.2	0.91	1.10	1.05	34.0	14.5	22.0	0.65	0.43	1.43	0.35	0.67	39		10.0	0.29	dc
UV	Verr.	1	*vaub.*	57463	pmpp	j	31.2	7.6	8.3	0.91	7.3	7.8	0.94	1.06	1.04	30.0	13.0	21.0	0.70	0.43	1.56	0.32	0.62	35		10.5	0.35	d
UV	Verr.	1	*touc.*	57464	c	mj	20.5	3.1	3.5	0.89	2.8	3.1	0.91	1.12	1.10	16.0	5.5	13.0	0.81	0.34	1.58	0.32	0.61	35		3.0	0.19	d
UV	Verr.	1	*orb.*	57465	pmpp	j	26.3	7.4	8.4	0.88	7.4	6.7	1.10	1.25	1.01	25.5	10.0	17.0	0.67	0.39	1.19	0.42	0.79	46		8.5	0.33	c
UV	Verr.	1	*orb.*	57483	pmpp	sa	31.7	9.4	9.9	0.94							10.5				1.06	0.47	0.88	51				c
UV	Verr.	1	sp.	57552	pp	j	19,1																					
UV	Verr.	1	*vaub.*	57559	pmpp	sa	38.0	9.3	9.8	0.95	8.6	8.6	1.00	1.13	1.08	35.5	13.5	22.5	0.63	0.38	1.38	0.36	0.70	40		14.5	0.41	dc
UV	Verr.	1	sp.	57560	c-pa	j	37,4																					
UV	Verr.	1	*vaub.*	57561	pmpp	a	46.4	9.9	10.6	0.93	9.3	9.6	0.97	1.11	1.07	36.0	15.0	19.0	0.53	0.42	1.41	0.35	0.68	39	18	11.5	0.32	c
UV	Verr.	1	*touc.*	57562	pmpp	sa	34.5	7.8	8.7	0.89	7.7	9.5	0.82	0.92	1.01	33.0	11.0	24.0	0.73	0.33	1.26	0.40	0.76	43		14.0	0.42	dc
UV	Verr.	1	*orb.*	57563	pmpp	vj	21.2	5.1	5.2	0.98	4.2	4.4	0.95	1.19	1.22	20.0	7.0	13.0	0.65	0.35	1.34	0.37	0.71	41				c
UV	Verr.	1	*orb.*	57564	papp	a	24.2	10.0	10.6	0.94	9.7	10.4	0.94	1.03	1.03		11.5				1.08	0.46	0.87	50				c
LV	Neoc.	1	*suborb.*	57662	c-pa	sa	49.9	8.8	9.7	0.91	8.1	8.9	0.91	1.09	1.09	49.5	18.0	31.0	0.63	0.36	1.86	0.27	0.53	30		17.0	0.34	c

7	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*touc.*	57663	pmpp	a	48.5	11.6	13.6	0.85	11.3	12.4	0.91	1.09	1.02	45.0	17.5	33.5	0.74	0.39	1.29	0.39	0.74	42		16.0	0.36	dc
UV	Verr.	1	*orb.*	57675	c-pa	vj	26.1	5.0	4.8	1.04	4.3	4.6	0.95	1.06	1.17	22.5	8.0	16.0	0.71	0.36	1.66	0.30	0.59	34		7.0	0.31	c
UV	Verr.	1	*vaub.*	57676	c	vj	29.8	4.7	4.9	0.97	3.8	4.2	0.88	1.15	1.25	24.5	8.0	16.5	0.67	0.33	1.64	0.30	0.59	34		6.0	0.24	dc
UV	Verr.	1	*vaub.*	57677	c-pa	mj/v	24.7	4.0	4.3	0.93	3.3	3.8	0.88	1.13	1.19	21.0	7.5	14.0	0.67	0.36	1.75	0.29	0.56	32		7.0	0.33	dc
UV	Verr.	1	sp.	58036	pmpp	j																						
UV	Verr.	1	sp.	58069	pm																							
UV	Verr.	1	*vaub.*	58070	pp	a	27.7	8.7	9.1	0.95							13.0				1.42	0.35	0.68	39				dc
LV	Inos.	1	*vaub.*	58076	c	j	37.0	7.0	7.2	0.96	6.2	6.8	0.92	1.06	1.12	32.0	12.0	21.0	0.66	0.38	1.66	0.30	0.59	34		12.0	0.38	dc
LV	Inos.	1	*vaub.*	58077	c	j	41.6	6.9	7.4	0.93	6.7	7.1	0.96	1.05	1.02	37.5	12.0	26.0	0.69	0.32	1.63	0.31	0.60	34		14.0	0.37	dc
LV	Inos.	1	*vaub.*	58078	c-ap	mj	16.3	3.1	3.2	0.98	2.2	2.6	0.86	1.23	1.39	14.0	5.0	9.0	0.64	0.36	1.59	0.32	0.61	35		3.0	0.21	dc
LV	Inos.	1	*touc.*	58079	pp	sa	23.6	7.8	8.9	0.88							10.0				1.13	0.44	0.83	48				dc
LV	Pert.	1	*touc.*	58085	pmpp	j		6.82	7.71	0.88																		
UV	Verr.	1	*orb.*	58086	c-pa	j	43.0	8.6	9.2	0.93	7.6	8.2	0.93	1.13	1.13	35.0	11.5	24.0	0.69	0.33	1.25	0.40	0.76	44		14.0	0.40	c
UV	Verr.	1	sp.	58100	pmpp	j																						
UV	Verr.	1	sp.	58106	pp																							
LV	Neoc.	1	*touc.*	58108	pmpp	j	31.2	8.0	9.0	0.90	7.6	7.6	1.00	1.18	1.06	29.0	9.5	22.0	0.76	0.33	1.06	0.47	0.88	50		9.0	0.31	d
UV	Verr.	1	*vaub.*	58118	c-pa	j	41.4	7.8	8.6	0.90	7.3	7.7	0.95	1.12	1.06	36.0	13.5	26.0	0.72	0.38	1.57	0.32	0.62	35		14.5	0.40	dc
UV	Verr.	1	*vaub.*	58151	c-pa	vj	26.2	4.3	4.4	0.99	4.0	4.2	0.95	1.05	1.10	21.5	8.0	14.0	0.65	0.37	1.83	0.27	0.53	31		7.0	0.33	dc
UV	Verr.	1	sp.	58152	pmpp	j	27.3																					
UV	Verr.	1	sp.	58153	pp	j	24.0																0.00					
UV	Verr.	1	*vaub.*	58154	c-pa	a	50.4	10.1	10.9	0.93	10.3	10.8	0.95	1.00	0.98	42.0	15.5	31.0	0.74	0.37	1.43	0.35	0.67	39	18	21.5	0.51	c
UV	Verr.	1	*suborb.*	58158	c-pa	j	37.0	6.6	7.1	0.93	5.5	6.0	0.92	1.18	1.19	33.0	15.0	24.0	0.73	0.45	2.12	0.24	0.46	26		10.0	0.30	c
LV	Inos.	1	*vaub.*	61217	pmpp	j	32.5	7.4	8.2	0.90	6.3	6.8	0.94	1.21	1.17	31.0	12.5	22.0	0.71	0.40	1.53	0.33	0.63	36		8.0	0.26	dc
LV	Neoc.	1	*vaub.*	61221	pmpp	vj	20.0	4.1	4.5	0.92	3.0	3.6	0.83	1.23	1.37	17.5	8.0	11.0	0.63	0.46	1.80	0.28	0.54	31		5.0	0.29	dc
UV	Verr.	1	*orb.*	61226	c-pa	j	37.6	6.9	7.5	0.92	6.4	7.0	0.91	1.06	1.07	33.5	10.0	28.0	0.84	0.30	1.34	0.37	0.71	41		13.5	0.40	dc
UV	Verr.	1	*orb.*	61227	pmpp	vj	22.6	5.4	5.7	0.94	4.3	5.0	0.87	1.14	1.24	21.0	8.0	12.0	0.57	0.38	1.41	0.36	0.68	39		6.5	0.31	c
UV	Verr.	1	*orb.*	61229	pmpp	j	24.9	6.1	6.6	0.92							10.0				1.52	0.33	0.64	37				dc
LV	Pert.	1	*touc.*	61474	c	sa	47.6	8.0	8.7	0.91	7.6	8.2	0.92	1.07	1.06	41.0	11.5	29.5	0.72	0.28	1.32	0.38	0.73	42		16.0	0.39	d
LV	Pert.	1	*touc.*	61475	c	a	57.6	11.0	13.2	0.83	9.7	10.7	0.91	1.24	1.13	50.0	18.5	35.0	0.70	0.37	1.40	0.36	0.69	39		20.0	0.40	d
LV	Pert.	1	*touc.*	61476	pp	j	26.0	7.5	8.6	0.88							11.0				1.28	0.39	0.74	43				d
LV	Pert.	1	*touc.*	61477	pmpp	j/sa	25.3	7.8	8.7	0.90							11.5				1.32	0.38	0.72	41				d
LV	Pert.	1	*touc.*	61478	pmpp	sa	32.5	7.9	9.82	0.80	7.61	8.72	0.87	1.13	1.04	31	12	23	0.74	0.39	1.22	0.41	0.78	45		10	0.32	d
LV	Pert.	1	*touc.*	61479	f																							d
LV	Pert.	1	*touc.*	61480	c-pa																							d
LV	Pert.	1	*touc.*	61481	pa	a																						
UV	Verr.	1	*vaub.*	64453	pmpp	sa	39.4	8.5	9.8	0.87	8.0	8.3	0.96	1.18	1.06	34.0	14.0	18.0	0.53	0.41	1.43	0.35	0.67	38		12.0	0.35	c
UV	Verr.	1	*orb.*	64514	pp	sa	25.0	9.2	10.5	0.88							10.0				0.95	0.53	0.97	56				c
UV	Verr.	1	*vaub.*	64577	pmpp	j	36.6	8.2	8.5	0.96	7.6	8.1	0.94	1.05	1.07	34.0	13.5	23.5	0.69	0.40	1.59	0.32	0.61	35		15.0	0.44	dc
UV	Verr.	1	*vaub.*	64578	pmpp	vj	23.1	4.6	4.5	1.02	3.5	3.8	0.90	1.17	1.32	21.0	8.0	14.0	0.67	0.38	1.78	0.28	0.55	31		4.5	0.21	dc
UV	Verr.	1	*vaub.*	64579	c-pa	j	31.6	6.0	6.2	0.97	5.3	5.6	0.96	1.11	1.12	28.5	10.0	19.0	0.67	0.35	1.62	0.31	0.60	34		9.5	0.33	dc
LV	Neoc.	1	*touc.*	64619	pmpp	a	40.7	9.7	12.9	0.76	9.0	10.6	0.84	1.21	1.08	38.0	15.0	29.0	0.76	0.39	1.17	0.43	0.81	46		13.0	0.34	dc
LV	Neoc.	1	*orb.*	64620	pp	a	28.1	11.0	11.6	0.94							13.5				1.16	0.43	0.81	47				c
LV	Neoc.	1	*orb.*	64621	pp	sa	29.4	10.7	12.2	0.88							12.5	24.0			1.02	0.49	0.91	52				c
UV	Verr.	1	*vaub.*	64994	pmpp	a	39.1	12.0	12.8	0.94							18.0				1.41	0.35	0.68	39				dc
LV	Neoc.	1	*orb.*	64995	pmpp	j	28.6	7.9	8.7	0.91	7.2	7.9	0.91	1.11	1.10	27.5	11.5	19.0	0.69	0.42	1.32	0.38	0.73	42		8.5	0.31	c
LV	Inos.	1	*vaub.*	65020	c-pa	j	36.5	6.9	7.3	0.95	6.5	7.0	0.93	1.05	1.07	33.5	12.0	25.0	0.75	0.36	1.64	0.30	0.59	34		12.0	0.36	dc
UV	Verr.	1	*vaub.*	65029	c	vj	29.2	4.3	4.4	0.99	3.7	4.0	0.92	1.08	1.17	22.5	8.0	14.0	0.62	0.36	1.83	0.27	0.53	30		8.0	0.36	dc
LV	Inos.	1	*touc.*	65055	c-pa	j	42.2	7.2	9.3	0.78	6.8	7.3	0.93	1.27	1.06	37.0	13.5	23.0	0.62	0.36	1.45	0.34	0.66	38		13.0	0.35	d
LV	Neoc.	1	*vaub.*	65074	c-pa	sa	53.7	9.0	10.3	0.87	8.3	9.1	0.90	1.13	1.09	45.0	14.5	31.0	0.69	0.32	1.41	0.35	0.68	39		17.0	0.38	dc
LV	Neoc.	1	*vaub.*	65075	c-pa	j/sa	42.2	8.7	9.7	0.89	7.5	8.4	0.89	1.15	1.16	35.0	13.5	24.5	0.70	0.39	1.39	0.36	0.69	40		11.0	0.31	dc
LV	Neoc.	1	*vaub.*	65076	c	j	38.2	6.4	7.2	0.89	5.3	5.6	0.95	1.29	1.21	31.0	12.0	23.0	0.74	0.39	1.67	0.30	0.58	33		6.0	0.19	dc
LV	Neoc.	1	*touc.*	65077	c-pa	sa	47.3	8.5	10.0	0.85	7.3	8.3	0.88	1.22	1.17	42.5	13.0	31.0	0.73	0.31	1.29	0.39	0.74	42		15.0	0.35	dc
LV	Neoc.	1	*suborb.*	65078	c	vj	25.4	4.2	4.3	0.99	3.6	4.0	0.91	1.08	1.17	21.0	10.0	14.0	0.67	0.48	2.33	0.22	0.42	24		4.5	0.21	dc
UV	Verr.	1	*vaub.*	65099	c	vj	25.2	4.0	3.9	1.03	3.3	3.4	0.96	1.15	1.24	20.0	7.0	14.0	0.70	0.35	1.79	0.28	0.54	31		5.0	0.25	dc
LV	Inos.	1	sp.	65109	c-pa	j	33,2																0.00					
LV	Inos.	1	*vaub.*	65118	c	j	41.6	7.6	7.9	0.96	6.8	7.6	0.90	1.04	1.12	36.5	13.5	29.0	0.79	0.37	1.72	0.29	0.57	32		12.0	0.33	dc
LV	Inos.	1	*orb.*	65119	pmpp	j	29.7	8.7	9.3	0.94							10.0				1.08	0.46	0.87	50				dc
LV	Inos.	1	sp.	65120	pmpp	j																						
LV	Inos.	1	*suborb.*	65121	pmpp	j	30.0	7.1	7.6	0.93							16.0				2.11	0.24	0.47	27				dc
LV	Inos.	1	*orb.*	65122	pmpp	j	28.7	7.6	8.3	0.91	7.0	7.3	0.96	1.14	1.08	28.0	9.5	18.0	0.64	0.34	1.14	0.44	0.83	47		9.0	0.32	c
LV	Inos.	1	*vaub.*	65137	pmpp	sa	39.4	8.9	9.4	0.95	7.7	7.8	1.00	1.21	1.16	32.5	13.5	24.0	0.74	0.42	1.44	0.35	0.67	38		9.5	0.29	dc
LV	Inos.	1	*orb.*	65138	c	j	35.9	6.8	7.3	0.92	6.1	6.7	0.90	1.09	1.12	30.5	8.5	22.0	0.72	0.28	1.16	0.43	0.81	47		11.5	0.38	dc
UV	Verr.	1	*vaub.*	65149	pmpp	sa	30.2	10.1	10.6	0.95							14.0				1.32	0.38	0.73	42				d
UV	Verr.	1	*touc.*	65150	pp	sa	29.5	8.0	9.6	0.84							14.5				1.52	0.33	0.64	36				dc
UV	Verr.	1	*orb.*	65151	pp	sa	22.9	10.7	11.3	0.94							11.5				1.02	0.49	0.91	52				dc
UV	Verr.	1	*touc.*	65152	pp	j/sa	28.9	8.0	9.0	0.88							12.5				1.38	0.36	0.69	40				dc
UV	Verr.	1	*suborb.*	65153	pmpp	j	23.9	6.5	6.8	0.95							13.5				1.99	0.25	0.49	28				c
UV	Verr.	1	*orb.*	65154	pmpp	j/sa	27.8	8.1	9.0	0.90							11.0				1.22	0.41	0.78	45				dc
UV	Verr.	1	*suborb.*	65155	pp	j/sa	23.2	7.3	8.2	0.89							16.0				1.95	0.26	0.50	29				c
UV	Verr.	1	*vaub.*	65156	pp	j	24.2	7.4	8.0	0.93							12.5				1.56	0.32	0.62	36				dc
UV	Verr.	1	sp.	65157	pp	sa	24.7																					
UV	Verr.	1	*touc.*	65158	pmpp	sa	33.0	8.9	11.0	0.81	8.4	9.0	0.92	1.21	1.06	32.0	13.0	22.0	0.69	0.41	1.19	0.42	0.80	46		14.0	0.44	dc
UV	Verr.	1	*orb.*	65159	pp	j	16.5	5.2	5.8	0.91							8.5				1.48	0.34	0.65	37				c
UV	Verr.	1	sp.	65177	f																							
UV	Verr.	1	sp.	65178	f																							
UV	Verr.	1	sp.	65179	f																							
UV	Verr.	1	*vaub.*	65194	pmpp	j	29.2	7.3	8.1	0.90							14.0				1.74	0.29	0.56	32				c
LV	Pert.	1	*suborb.*	65208	pmpp	j	30.7	7.1	7.8	0.92	6.7	7.5	0.89	1.04	1.07	30.0	16.5	18.0	0.60	0.55	2.12	0.24	0.46	27		9.0	0.30	c
LV	Pert.	1	*vaub.*	65210	pmpp	j	27.0	7.2	7.9	0.91	6.5	7.0	0.92	1.13	1.12	24.5	10.5	15.0	0.61	0.43	1.33	0.38	0.72	41		7.5	0.31	dc
LV	Pert.	1	*touc.*	65211	pmpp	j	26,5	5.6	6.4	0.88	5.0	5.9	0.86	1.09	1.12	24.0	11.0	15.0	0.63	0.46	1.72	0.29	0.56	32		7.5	0.31	c

∞	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*orb.*	65219	pmpp	sa	32.3	8.6	9.7	0.89	8.6	9.6	0.90	1.01	1.00	27.0	12.5	20.0	0.74	0.46	1.29	0.39	0.74	42		10.0	0.37	c
LV	Neoc.	1	*touc.*	65220	c	j	50,2	7.5	8.6	0.87	6.7	7.5	0.89	1.15	1.12	43.0	14.0	33.5	0.78	0.33	1.63	0.31	0.60	34		12.5	0.29	d
UV	Verr.	1	*suborb.*	65232	pp	j	28.8	8.4	8.5	0.99							18.0				2.12	0.24	0.46	27				c
UV	Verr.	1	sp.	77903	pmpp	j	25.3																					
UV	Verr.	1	*orb.*	77950	pmpp	j	27.6	7.3	8.3	0.89	6.4	6.9	0.92	1.20	1.15	24.5	7.0	19.5	0.80	0.29	0.84	0.59	1.07	61		10.0	0.41	c
UV	Verr.	1	*vaub.*	77951	c	a	64.8	12.0	12.3	0.97	9.6	10.0	0.96	1.24	1.25	54.0	17.0	34.0	0.63	0.31	1.38	0.36	0.69	40		20.5	0.38	**v**
UV	Verr.	1	*orb.*	77952	pmpp	sa	33.5	8.9	9.9	0.90	8.5	8.9	0.96	1.12	1.04	32.0	11.0	18.0	0.56	0.34	1.11	0.45	0.85	48		12.5	0.39	c
UV	Verr.	1	*orb.*	77953	pmpp	sa	35.5	9.8	10.4	0.94	9.7	9.6	1.01	1.08	1.01	31.5	10.0	21.0	0.67	0.32	0.96	0.52	0.96	55		12.5	0.40	c
UV	Verr.	1	*touc.*	77954	pmpp	j	29.7	7.6	9.1	0.84	6.6	7.6	0.87	1.19	1.15	29.0	12.0	19.0	0.66	0.41	1.32	0.38	0.72	41		10.0	0.34	dc
LV	Pert.	1	*touc.*	77960	pp	j	21.5	7.5	9.1	0.82							13.0				1.43	0.35	0.67	39				d
LV	Pert.	1	*touc.*	77961	pmpp	sa	36.0	8.3	9.9	0.84	7.7	8.3	0.92	1.19	1.09	34.5	12.5	21.0	0.61	0.36	1.26	0.40	0.75	43		12.5	0.36	d
LV	Pert.	1	*touc.*	77962	c-pa	sa	44.2	8.5	10.4	0.82	8.3	8.8	0.94	1.18	1.03	39.0	11.0	29.5	0.76	0.28	1.06	0.47	0.88	50		15.0	0.38	d
LV	Pert.	1	*touc.*	77970	c	vj	26.8	4.6	5.0	0.93	4.2	4.5	0.95	1.12	1.09	24.5	9.0	17.5	0.71	0.37	1.81	0.28	0.54	31		8.0	0.33	d
LV	Neoc.	1	sp.	78025	pmpp	j	36																					
LV	Neoc.	1	sp.	78026	pp	sa	28																					
LV	Neoc.	1	sp.	78040	pmpp	j	25.9																					
LV	Neoc.	1	*vaub.*	78122	pmpp	j	30.9	6.3	6.7	0.95	5.9	6.1	0.96	1.09	1.08	28.0	11.0	18.0	0.64	0.39	1.65	0.30	0.59	34		7.0	0.25	dc
UV	Verr.	1	*vaub.*	78124	c	a	62.8	10.9	12.5	0.87	9.0	9.0	1.00	1.39	1.22	51.0	16.5	39.0	0.76	0.32	1.32	0.38	0.73	42		23.0	0.45	dc
UV	Pere.	1	*orb.*	78182	c-ap	sa	50.8	10.1	11.0	0.92	9.9	10.2	0.97	1.08	1.02	41.0	12.5	30.5	0.74	0.30	1.14	0.44	0.83	47		20.0	0.49	dc
UV	Pere.	1	*vaub.*	78183	c-pa		31.1																					
UV	Verr.	1	*orb.*	78200	c-pa	j	41.8	7.8	8.6	0.91	7.0	7.3	0.96	1.18	1.11	35.0	11.0	28.0	0.80	0.31	1.28	0.39	0.75	43		14.0	0.40	c
UV	Verr.	1	*orb.*	78212	pmpp	sa	48.0	9.9	11.2	0.88	9.7	10.3	0.94	1.09	1.03	45.5	12.0	37.0	0.81	0.26	1.07	0.47	0.88	50		18.5	0.41	c
UV	Verr.	1	*suborb.*	78213	pp	j	24.0	8.2	8.4	0.98							17.0				2.03	0.25	0.48	28				c
UV	Verr.	1	*vaub.*	78316	pmpp	sa	38.9	9.1	10.3	0.89	8.4	9.0	0.93	1.14	1.08	37.0	14.5	26.0	0.70	0.39	1.41	0.35	0.68	39		16.0	0.43	c
UV	Verr.	1	*suborb.*	78317	c-pa	sa	47.7	9.6	10.3	0.94	9.2	9.7	0.94	1.06	1.05	41.0	19.0	26.5	0.65	0.46	1.85	0.27	0.53	30		18.5	0.45	c
UV	Verr.	1	*vaub.*	78318	c-pa	vj	18.1																0.00					
UV	Verr.	1	*orb.*	78319	c	j	43.1	7.0	7.0	1.00	6.6	6.8	0.96	1.02	1.07	32.5	8.5	23.5	0.72	0.26	1.21	0.41	0.78	45		13.5	0.42	dc
UV	Verr.	1	*orb.*	78320	c	j/sa	49.3	9.0	9.8	0.92	9.3	9.6	0.97	1.02	0.97	41.0	11.5	33.0	0.80	0.28	1.17	0.43	0.81	46		18.5	0.45	c
UV	Verr.	1	*vaub.*	78321	pmpp	j	39.1	8.5	8.8	0.96	8.3	8.3	0.99	1.05	1.02	36.5	14.0	23.0	0.63	0.38	1.59	0.31	0.61	35		16.5	0.45	dc
UV	Verr.	1	*orb.*	78322	c-pa	j	38.3	8.0	8.5	0.94	7.4	7.8	0.95	1.09	1.09	34.5	10.5	24.5	0.71	0.30	1.23	0.41	0.77	44		15.0	0.43	c
UV	Verr.	1	*vaub.*	78323	pmpp	j	25.6	6.3	6.3	1.00							10.5				1.67	0.30	0.58	33				dc
UV	Verr.	1	*suborb.*	78324	pmpp	j	30.7	7.1	7.4	0.96	6.7	7.1	0.94	1.05	1.07	26.5	15.0	13.0	0.49	0.57	2.02	0.25	0.49	28		9.5	0.36	c
UV	Verr.	1	*orb.*	78390	pmpp	j	20.5	6.6	7.1	0.93							8.0				1.13	0.44	0.83	48				c
UV	Verr.	1	sp.	78391	pmpp	j	25.3																					
UV	Verr.	1	*vaub.*	78392	pp	j	19.3	7.3	8.2	0.89							12.0				1.46	0.34	0.66	38				dc
UV	Verr.	1	sp.	78393	pa	sa																						
UV	Verr.	1	sp.	78394	pa	sa																						
UV	Verr.	1	sp.	78395	pa	j																						
UV	Verr.	1	sp.	78396	section																				18			
UV	Verr.	1	*vaub.*	78455	pp	j	22.3	7.0	7.1	0.98							11.5				1.62	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	78750	pmpp	sa	37.3	8.9	9.5	0.94	8.1	9.1	0.88	1.04	1.10	34.0	14.0	24.0	0.71	0.41	1.48	0.34	0.65	37		12.5	0.37	dc
UV	Verr.	1	*vaub.*	78751	c	vj	29.5	5.4	5.3	1.01	4.6	4.7	0.98	1.13	1.17	24.0	9.0	17.0	0.71	0.38	1.70	0.29	0.57	33		8.0	0.33	dc
UV	Verr.	1	*touc.*	78752	pp	sa	30.8	9.5	11.2	0.84							13.0				1.16	0.43	0.81	47				dc
UV	Verr.	1	*orb.*	78753	pmpp	sa	30.4	9.0	10.0	0.90							10.5				1.05	0.48	0.89	51				c
UV	Verr.	1	*suborb.*	78792	c	sa	52.2	8.6	9.4	0.91	8.4	8.9	0.95	1.06	1.02	42.0	18.0	34.0	0.81	0.43	1.92	0.26	0.51	29		15.0	0.36	c
UV	Verr.	1	*suborb.*	78793	c	j	36.5	6.1	6.4	0.94	6.8	6.9	0.99	0.93	0.89	31.0	13.5	21.0	0.68	0.44	2.10	0.24	0.47	27		14.0	0.45	c
UV	Verr.	1	*vaub.*	78794	c-pa	sa	42.0	8.6	9.8	0.88	8.5	8.9	0.95	1.10	1.02	35.5	15.0	28.0	0.79	0.42	1.54	0.33	0.63	36		17.0	0.48	dc
UV	Verr.	1	*suborb.*	78795	pmpp	j	32.4	6.7	7.2	0.93	6.0	6.3	0.95	1.14	1.12	28.5	15.0	19.0	0.67	0.53	2.08	0.24	0.47	27		11.0	0.39	c
UV	Verr.	1	*orb.*	78796	pmpp	j	25.6	6.4	6.8	0.95							9.0				1.33	0.38	0.72	41				c
UV	Verr.	1	*orb.*	78797	pmpp	a	28.4	9.9	11.6	0.86							9.0				0.78	0.64	1.14	66				dc
UV	Verr.	1	sp.	78798	pp	a																						
UV	Verr.	1	*orb.*	78799	f	j/sa	35.0									34.0							0.00		17	15.0	0.44	c
LV	Neoc.	1	*touc.*	78848	c-pa	sa	43.9	7.4	9.3	0.80	7.1	8.4	0.85	1.10	1.04	37.5	13.0	27.0	0.72	0.35	1.40	0.36	0.68	39		12.5	0.33	dc
LV	Neoc.	1	*touc.*	78849	c	j	39.8	7.3	8.3	0.88	7.3	8.2	0.89	1.02	1.01	36.5	15.0	24.0	0.66	0.41	1.81	0.28	0.54	31		13.0	0.36	d
LV	Neoc.	1	*touc.*	78850	pmpp	j	27.9	6.9	8.0	0.87							10.5				1.32	0.38	0.73	42				d
LV	Neoc.	1	sp.	78851	f																							
LV	Inos.	1	*suborb.*	78855	c-pa	vj	30.0	5.5	6.2	0.90	5.0	5.7	0.89	1.09	1.10	27.0	13.5	18.0	0.67	0.50	2.18	0.23	0.45	26		8.0	0.30	dc
LV	Neoc.	1	*vaub.*	78872	c-pa	j	32.8	6.0	6.6	0.90	5.3	5.9	0.89	1.12	1.13	29.0	11.5	18.0	0.62	0.40	1.73	0.29	0.56	32		10.0	0.34	dc
LV	Inos.	1	*touc.*	78875	pmpp	a	41.2	9.2	11.1	0.83	8.8	9.6	0.91	1.15	1.05	34.5	14.0	27.0	0.78	0.41	1.27	0.40	0.75	43		16.0	0.46	d
LV	Inos.	1	*vaub.*	78876	c-pa	vj	26.4	4.6	5.2	0.89	3.9	4.3	0.91	1.22	1.18	24.0	9.0	16.0	0.67	0.38	1.72	0.29	0.57	32		7.0	0.29	dc
LV	Inos.	1	*vaub.*	78877	pmpp	j	26.2	7.0	7.4	0.96							11.0				1.49	0.34	0.65	37				
LV	Inos.	1	*orb.*	78878	c-pa	j	32.6	6.6	7.2	0.92	6.1	6.5	0.93	1.11	1.09	28.0	8.0	21.0	0.75	0.29	1.11	0.45	0.85	49		10.5	0.38	c
LV	Inos.	1	*orb.*	78879	pmpp	mj	15.1	4.0	4.4	0.92							6.5				1.48	0.34	0.65	37				c
LV	Neoc.	1	*vaub.*	78881	pmpp	j	29.3	7.1	8.1	0.87							14.0				1.73	0.29	0.56	32				dc
UV	Verr.	1	*orb.*	78885	pmpp	a	42.1	10.4	11.1	0.94	9.7	9.9	0.99	1.13	1.07	39.0	11.5	29.0	0.74	0.29	1.04	0.48	0.90	52		17.0	0.44	c
UV	Verr.	1	*vaub.*	78890	pmpp	sa	29.0	8.9	10.3	0.86							14.5				1.41	0.36	0.68	39				dc
LV	Inos.	1	*vaub.*	78893	c	j	34.4	5.5	5.9	0.93	4.6	5.2	0.88	1.14	1.20	29.5	9.5	21.5	0.73	0.32	1.60	0.31	0.60	35		9.0	0.31	dc
LV	Inos.	1	sp.	78894	c	j																	0.00					
LV	Inos.	1	*orb.*	78895	c-pa	j	34.8	6.9	7.2	0.96	6.1	6.6	0.93	1.09	1.12	33.0	11.0	24.0	0.73	0.33	1.54	0.33	0.63	36		11.5	0.35	dc
LV	Inos.	1	*touc.*	78896	pmpp	sa	33.0	7.2	8.4	0.86							12.0				1.42	0.35	0.68	39				dc
LV	Inos.	1	*vaub.*	78897	c-pa	vj	27.8	5.0	5.4	0.93	4.3	4.7	0.92	1.15	1.16	23.0	8.5	19.0	0.83	0.37	1.57	0.32	0.62	35		7.5	0.33	c
LV	Inos.	1	*vaub.*	78898	c	vj	27.2	5.0	5.6	0.88	4.6	5.1	0.91	1.11	1.08	24.0	9.0	17.0	0.71	0.38	1.60	0.31	0.61	35		7.5	0.31	dc
UV	Verr.	1	*vaub.*	78942	pmpp	sa	31.9	8.9	9.4	0.94	8.5	9.1	0.94	1.04	1.04	30.0	14.5	20.0	0.67	0.48	1.54	0.32	0.63	36		10.5	0.35	dc
LV	Inos.	1	sp.	78943	pp	sa	22.6																					
LV	Inos.	1	*vaub.*	78944	pmpp	a	30.4	8.8	9.8	0.90							14.0				1.43	0.35	0.67	39				c
LV	Inos.	1	*orb.*	78945	pp	j	23.8	7.0	7.5	0.94							10.0				1.33	0.38	0.72	41				dc
UV	Verr.	1	*suborb.*	78961	pmpp	j	26.6	6.5	6.7	0.97							14.5				2.16	0.23	0.46	26				c
UV	Verr.	1	*vaub.*	78962	pp	j	19.9	6.4	6.6	0.97							10.5				1.58	0.32	0.61	35				dc
UV	Verr.	1	*vaub.*	78963	pp	vj	17.7	4.3	4.3	1.01							7.0				1.64	0.30	0.59	34				dc
UV	Verr.	1	*vaub.*	79010	pmpp	j	29.2	6.8	7.4	0.93	6.2	6.6	0.95	1.12	1.09	27.5	11.8	17.0	0.62	0.43	1.60	0.31	0.61	35		9.0	0.33	dc

9	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Inos.	1	*vaub.*	79022	c	a	67.6	11.4	13.4	0.86	11.2	11.5	0.98	1.16	1.02	56.5	17.0	36.0	0.64	0.30	1.27	0.39	0.75	43		25.5	0.45	dc
UV	Verr.	1	*vaub.*	79023	pp	j	23.1	7.1	7.8	0.91							12.5				1.59	0.31	0.61	35				dc
UV	Verr.	1	*vaub.*	79280	pp	a	25.6	11.5	12.6	0.91							17.0				1.35	0.37	0.71	41				dc
UV	Verr.	1	*orb.*	79291	c-pa	j	40.6	8.7	8.9	0.98	8.0	8.3	0.97	1.07	1.09	35.5	10.5	26.0	0.73	0.30	1.18	0.42	0.80	46		12.5	0.35	c
UV	Verr.	1	sp.	79292	pa	j																						
UV	Verr.	1	*suborb.*	79439	pmpp	vj	26.6	5.4	5.7	0.93	4.9	5.3	0.92	1.08	1.10	24.5	12.5	16.0	0.65	0.51	2.18	0.23	0.45	26		8.0	0.33	c
LV	Pert.	1	*touc.*	79653	pp	j	27.5	7.5	8.5	0.88							12.5				1.47	0.34	0.66	38				d
LV	Pert.	1	*touc.*	79654	pp	sa	25.6	7.9	8.9	0.89																		d
LV	Pert.	1	*touc.*	79664	f		37.3																		18			d
LV	Pert.	1	*touc.*	79667	f																							
LV	Pert.	1	*touc.*	79670	f																							
UV	Verr.	1	*suborb.*	79691	c-pa	vj	25,1	4.4	4.5	0.99	3.9	4.1	0.96	1.10	1.14	21.5	10.0	11.5	0.53	0.47	2.25	0.22	0.44	25		6.0	0.28	c
LV	Inos.	1	*suborb.*	79693	pmpp	sa		8.6	9.7	0.89							19.0				1.97	0.25	0.50	29				c
LV	Inos.	1	*vaub.*	79694	pmpp	j	26.4	6.4	6.9	0.92							10.0				1.45	0.35	0.67	38				dc
LV	Inos.	1	*touc.*	79695	pp	j	25.6	6.9	8.0	0.86							10.0				1.25	0.40	0.76	44				d
LV	Inos.	1	*touc.*	79696	pp	sa	28.2																					
LV	Inos.	1	*vaub.*	79697	pmpp	j	27.9	7.4	7.8	0.95							13.0				1.67	0.30	0.58	33				dc
LV	Inos.	1	*touc.*	79698	pmpp	j	31.1	6.9	7.7	0.89	5.2	6.4	0.82	1.21	1.32	29.0	11.5	19.0	0.66	0.40	1.50	0.33	0.64	37		7.0	0.24	dc
LV	Inos.	1	*orb.*	79705	c-pa	sa	44.4	8.1	8.7	0.93	7.7	8.1	0.95	1.07	1.05	39.0	11.5	31.0	0.79	0.29	1.32	0.38	0.72	42		15.0	0.38	dc
LV	Neoc.	1	*vaub.*	79726	c	sa	53.5	8.8	9.9	0.89	8.3	8.3	1.00	1.19	1.06	43.0	15.0	31.0	0.72	0.35	1.52	0.33	0.64	36		15.5	0.36	dc
UV	Verr.	1	*orb.*	79754	pp	j	23.9	7.2	7.5	0.96							9.5				1.27	0.39	0.75	43				c
UV	Verr.	1	*vaub.*	79755	pmpp	j	24.1	7.6	7.6	0.99							11.0				1.45	0.35	0.67	38				dc
UV	Verr.	1	*suborb.*	79756	pmpp	j/sa	43.0	8.4	8.4	0.99	7.3	7.4	0.99	1.14	1.15	41.5	16.5	31.0	0.75	0.40	1.96	0.26	0.50	29		14.0	0.34	c
UV	Verr.	1	*touc.*	79757	pmpp	j	26.1	6.2	7.0	0.89							10.5				1.51	0.33	0.64	37				dc
UV	Verr.	1	*suborb.*	79758	pp	j	28.5	7.9	8.2	0.97							16.5				2.02	0.25	0.49	28				c
UV	Verr.	1	*vaub.*	79759	pp	a	28.2	9.3	11.1	0.84							16.5				1.49	0.34	0.65	37				dc
UV	Verr.	1	*vaub.*	79761	pp	j	23.8	8.2	8.9	0.91							13.5				1.51	0.33	0.64	37				dc
UV	Verr.	1	sp.	80347	f																							
UV	Verr.	1	*vaub.*	80352	pp	j	25.3	7.8	8.2	0.95							13.5				1.65	0.30	0.59	34				dc
LV	Inos.	1	*vaub.*	84312	pp	j	19.9	6.1	6.4	0.96							10.0				1.57	0.32	0.61	35				dc
LV	Inos.	1	sp.	84313	pp	j																						
LV	Neoc.	1	*vaub.*	84359	pmpp	sa	34.5	8.8	10.0	0.88							13.0				1.30	0.38	0.73	42				dc
UV	Verr.	1	*suborb.*	84361	pmpp	j	27.7	5.8	6.2	0.93	5.6	5.9	0.95	1.05	1.04	26.5	12.5	17.0	0.64	0.47	2.01	0.25	0.49	28		9.0	0.34	dc
UV	Verr.	1	*vaub.*	84363	c-pa	sa	40.0	8.4	8.9	0.94	7.6	8.1	0.94	1.10	1.11	37.0	14.0	26.0	0.70	0.38	1.57	0.32	0.62	35		16.5	0.45	dc
UV	Verr.	1	*orb.*	84399	pmpp	a	33.8	9.9	11.1	0.89	9.4	10.2	0.93	1.09	1.06	31.0	13.0	23.0	0.74	0.42	1.17	0.43	0.81	46		13.0	0.42	c
LV	Neoc.	1	*touc.*	84440	pp	j	23.9	7.4	8.2	0.90							12.0				1.46	0.34	0.66	38				d
LV	Neoc.	1	*touc.*	84448	pmpp	vj	30.7	5.8	6.7	0.87							10.0				1.50	0.33	0.64	37				dc
LV	Neoc.	1	*touc.*	84449	pp	sa	23.8	8.7	10.4	0.84							17.0				1.63	0.31	0.60	34				dc
LV	Inos.	1	*touc.*	84452	pmpp	j	31.4	7.6	8.7	0.87							12.0				1.38	0.36	0.69	40				dc
LV	Neoc.	1	*orb.*	84468	c	j/sa	50.8	9.1	9.7	0.94	8.3	8.3	1.00	1.17	1.10	45.0	11.0	32.0	0.71	0.24	1.14	0.44	0.83	47		16.0	0.36	dc
LV	Neoc.	1	*touc.*	84469	c-pa	j	34.4	7.0	7.9	0.89	6.5	7.2	0.91	1.10	1.08	30.5	10.5	20.0	0.66	0.34	1.34	0.37	0.72	41	18	10.0	0.33	d
UV	Verr.	1	*orb.*	84473	pp	j	25.5	7.1	7.7	0.93							10.0				1.31	0.38	0.73	42				c
UV	Verr.	1	*vaub.*	84474	pp	j	21.9	6.2	6.6	0.94							11.5				1.74	0.29	0.56	32				dc
LV	Inos.	1	*vaub.*	84736	c-pa	vj	27.9	4.6	5.1	0.90	4.0	4.3	0.93	1.18	1.14	22.5	9.5	15.0	0.67	0.42	1.87	0.27	0.52	30		5.5	0.24	dc
LV	Inos.	1	*orb.*	84737	c-pa	sa	44.2	10.6	11.6	0.91	8.7	9.3	0.93	1.24	1.22	40.0	13.5	30.5	0.76	0.34	1.16	0.43	0.81	47		17.5	0.44	c
LV	Inos.	1	sp.	84738	pp	sa	26.4																					
LV	Inos.	1	*vaub.*	84739	pmpp	j	23.6	5.0	5.1	0.98	4.4	4.7	0.93	1.09	1.14	22.0	8.5	16.0	0.73	0.39	1.65	0.30	0.59	34		4.5	0.20	dc
LV	Inos.	1	*vaub.*	84740	pmpp	a	52.1	11.6	13.5	0.86	10.0	11.6	0.86	1.16	1.16	46.0	17.5	29.0	0.63	0.38	1.29	0.39	0.74	42		19.5	0.42	dc
LV	Inos.	1	*vaub.*	84742	c	vj	23.7	3.8	3.9	0.98	2.8	3.1	0.89	1.26	1.38	18.0	6.5	13.0	0.72	0.36	1.66	0.30	0.58	33		3.5	0.19	dc
LV	Inos.	1	sp.	84744	pmpp	j	31.4																					
UV	Verr.	1	*orb.*	84793	c	sa	58.6	10.0	10.8	0.93	10.3	10.5	0.99	1.03	0.96	46.5	14.0	36.0	0.77	0.30	1.30	0.38	0.73	42		19.0	0.41	dc
UV	Verr.	1	*orb.*	84794	c-pa	sa	42.1	8.5	9.0	0.94	8.5	9.1	0.94	0.99	0.99	36.5	11.0	27.0	0.74	0.30	1.23	0.41	0.77	44		17.0	0.47	c
UV	Verr.	1	*vaub.*	84795	pmpp	sa	32.8	9.9	10.6	0.93							15.0				1.41	0.35	0.68	39				dc
UV	Pere.	1	*vaub.*	84804	c-pa	j	41.2	7.4	8.1	0.91	7.3	7.9	0.93	1.04	1.01	36.0	12.0	25.0	0.69	0.33	1.47	0.34	0.65	37		14.0	0.39	c
LV	Inos.	1	*touc.*	84805	pp	j	25.2	7.9	8.7	0.91							10.0				1.15	0.44	0.82	47				d
UV	Verr.	1	*vaub.*	84878	pp	sa	23.8	9.2	9.9	0.93							14.8				1.49	0.33	0.65	37				dc
LV	Inos.	1	sp.	84887	f	j																						
UV	Verr.	1	*orb.*	86002	pmpp	vj/j	23.4	6.2	6.7	0.92	5.4	6.0	0.90	1.13	1.15	22.0	9.0	16.0	0.73	0.41	1.34	0.37	0.71	41		7.0	0.32	c
UV	Verr.	1	*suborb.*	86003	pp	sa	30.3	10.4	10.5	0.99							20.5				1.95	0.26	0.50	29				dc
UV	Verr.	1	*orb.*	86004	pp	sa	23.9	9.5	10.1	0.95							12.5				1.24	0.40	0.77	44				c
UV	Verr.	1	*vaub.*	86005	c	sa	54.9	9.4	10.2	0.92	8.9	9.3	0.96	1.10	1.06	43.0	15.0	32.0	0.74	0.35	1.47	0.34	0.65	37		17.0	0.40	c
UV	Furc.	1	*vaub.*	86033	c	mj	20.6	3.3	3.4	0.95	2.5	2.5	0.98	1.37	1.33	18.0	6.0	10.5	0.58	0.33	1.75	0.29	0.56	32		5.8	0.32	dc
UV	Verr.	1	*orb.*	86037	pmpp	j	27.4	7.2	7.4	0.97							9.5				1.28	0.39	0.75	43				dc
UV	Verr.	1	*orb.*	86038	pmpp	mj	16.5	3.8	3.8	1.00	3.5	3.5	0.99	1.07	1.09	16.0	5.5	10.0	0.63	0.34	1.47	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	86042	pmpp	j/sa	24.3	7.9	8.9	0.89							13.5				1.53	0.33	0.63	36				dc
UV	Verr.	1	*vaub.*	86043	pmpp	j	21.5	5.8	5.9	0.97							9.5				1.60	0.31	0.61	35				dc
UV	Verr.	1	*vaub.*	86044	pmpp	mj	17.1	3.8	3.8	0.99	3.3	3.4	0.97	1.10	1.13	16.0	6.5	10.0	0.63	0.41	1.72	0.29	0.57	32				dc
UV	Verr.	1	*orb.*	86045	pp	j	23.3	8.2	9.0	0.91							12.0				1.33	0.38	0.72	41				c
UV	Verr.	1	sp.	86047	f																							
UV	Verr.	1	*vaub.*	86057	pmpp	j	30.9	6.2	6.7	0.92	5.9	6.4	0.93	1.06	1.05	28.0	11.5	17.0	0.61	0.41	1.72	0.29	0.57	32		10.5	0.38	dc
UV	Verr.	1	*vaub.*	86059	pmpp	j	30.8	7.1	7.4	0.96	7.0	7.2	0.98	1.03	1.01	30.0	11.0	17.0	0.57	0.37	1.49	0.34	0.65	37		9.0	0.30	dc
UV	Verr.	1	*touc.*	87317	pmpp	j	24.1	5.0	6.1	0.82							9.0				1.47	0.34	0.65	37				dc
UV	Verr.	1	*orb.*	87392	c-pa	sa	48.1	9.1	9.3	0.98	9.3	9.5	0.98	0.98	0.98	42.0	11.0	31.0	0.74	0.26	1.18	0.42	0.80	46		18.0	0.43	c
LV	Neoc.	1	*vaub.*	87445	pmpp	sa	37.9	9.4	10.0	0.94	7.4	7.8	0.94	1.27	1.27	36.0	15.0	25.0	0.69	0.42	1.50	0.33	0.64	37		11.0	0.31	c
UV	Verr.	1	sp.	87486	pa	sa																						
LV	Pert.	1	*touc.*	87538	pmpp	j	26.2	5.9	6.4	0.92							12.0				1.87	0.27	0.52	30				d
LV	Pert.	1	*touc.*	87539	pp	j	17.9																					
LV	Pert.	1	*touc.*	87556	pmpp	vj	19.3	4.7	4.9	0.96							8.3				1.69	0.30	0.58	33				d
LV	Pert.	1	*touc.*	87568	pmpp	sa	29.0	7.8	9.6	0.82							12.5				1.30	0.38	0.73	42				d
LV	Pert.	1	*touc.*	87569	pmpp	j	22,8	6.0	6.5	0.92							9.5				1.47	0.34	0.66	38				d

10	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Pert.	1	*touc.*	87570	pmpp	sa	29,3																					
LV	Pert.	1	sp.	87572	pmpp	j	33																					
LV	Pert.	1	*touc.*	87578	c	mj	19.2	3.3	3.4	0.98	2.3	2.7	0.85	1.26	1.44	18.0	6.5	12.0	0.67	0.36	1.92	0.26	0.51	29		4.0	0.22	d
UV	Verr.	1	*orb.*	87631	c	vj	28.2	4.9	5.3	0.93	4.7	4.9	0.95	1.07	1.05	25.0	7.0	21.0	0.84	0.28	1.33	0.38	0.72	41		9.0	0.36	c
LV	Neoc.	1	*touc.*	87738	pmpp	j/sa	34.0	8.5	9.8	0.86	7.6	8.5	0.90	1.15	1.11	32.5	13.0	25.0	0.77	0.40	1.33	0.38	0.72	41		10.0	0.31	d
LV	Neoc.	1	*orb.*	87739	pmpp	j	26.4	6.7	7.4	0.91							10.5				1.42	0.35	0.68	39				dc
LV	Neoc.	1	*touc.*	87756	f																							d
LV	Neoc.	1	*touc.*	87757	pmpp	vj	20.0																					d
LV	Neoc.	1	sp.	87910	c-pa	vj	26.0																					
LV	Neoc.	1	*vaub.*	87935	pmpp	j	24.6	6.4	7.2	0.89							12.0				1.66	0.30	0.59	34				dc
LV	Neoc.	1	sp.	87980	pmpp	sa	45,8																					
LV	Neoc.	1	*touc.*	87981	pp	a	29.3	10.7	12.6	0.85							17.5				1.39	0.36	0.69	40				dc
LV	Neoc.	1	*touc.*	87982	pp	j	26.2	8.0	8.9	0.90							11.0				1.24	0.40	0.77	44				d
LV	Neoc.	1	*suborb.*	87983	pmpp	j	25.7	5.6	6.2	0.91							13.0				2.09	0.24	0.47	27				c
LV	Neoc.	1	*vaub.*	87984	pmpp	sa	37.1	9.8	11.1	0.88							16.0				1.44	0.35	0.67	38				dc
LV	Neoc.	1	sp.	87985	pp	sa	28																					
LV	Neoc.	1	*orb.*	87986	pp	j	21.6	6.6	7.1	0.92							7.5				1.05	0.48	0.89	51				c
LV	Neoc.	1	*touc.*	87987	pp	a	27.1	10.5	12.2	0.86							15.0				1.23	0.41	0.77	44				dc
LV	Neoc.	1	*touc.*	88010	pp	sa	23.9	8.2	9.5	0.86							14.0				1.48	0.34	0.65	37				d
LV	Neoc.	1	*vaub.*	88011	pp	j	21.7	8.1	9.1	0.90							14.0				1.54	0.32	0.63	36				dc
LV	Inos.	1	sp.	88034	f																							
LV	Inos.	1	*vaub.*	88111	pmpp	j	28.8	6.9	7.1	0.97	7.2	7.4	0.97	0.96	0.96	27.5	12.0	18.0	0.65	0.44	1.69	0.30	0.57	33		9.5	0.35	dc
LV	Pert.	1	*touc.*	88224	pp	a	30.2	10.1	12.2	0.82							12.5				1.02	0.49	0.91	52				d
LV	Pert.	1	*touc.*	88225	c-pa	j	42.0	7.8	8.4	0.93	7.0	7.2	0.97	1.16	1.11	37.5	12.0	29.0	0.77	0.32	1.43	0.35	0.67	39		12.0	0.32	d
LV	Pert.	1	*touc.*	88226	pmpp	j	26.8	6.4	7.5	0.84																		
LV	Pert.	1	*vaub.*	88227	pmpp	j	29.3	8.6	9.0	0.95							12.5				1.39	0.36	0.69	39				dc
LV	Pert.	1	*vaub.*	88228	pmpp	j	34,5	7.9	8.4	0.94	7.2	7.8	0.92	1.08	1.10	29.0	10.0	18.0	0.62	0.34	1.19	0.42	0.79	45		8.5	0.29	dc
LV	Pert.	1	*touc.*	88229	pmpp	j	34.9	6.9	7.6	0.91	6.6	7.2	0.92	1.06	1.05	34.0	11.5	22.5	0.66	0.34	1.51	0.33	0.64	37		11.0	0.32	d
LV	Pert.	1	*touc.*	88231	pmpp	vj	26.2	5.2	5.6	0.93	4.3	5.0	0.86	1.13	1.21	23.0	9.5	15.0	0.65	0.41	1.70	0.29	0.57	33		6.0	0.26	d
LV	Pert.	1	*touc.*	88233	c	j	49.7	7.6	8.5	0.90	7.4	8.0	0.93	1.06	1.03	40.0	13.0	29.0	0.73	0.33	1.53	0.33	0.63	36		12.5	0.31	dc
LV	Inos.	1	*touc.*	88286	pmpp	j	31.4	8.1	9.5	0.86							11.0				1.16	0.43	0.81	46				d
UV	Verr.	1	*orb.*	88287	pmpp	sa	48.6	9.9	10.8	0.92	9.6	10.4	0.92	1.04	1.04	40.5	13.0	28.0	0.69	0.32	1.20	0.42	0.79	45		19.5	0.48	dc
UV	Verr.	1	*orb.*	88288	pp	sa	26.0	9.4	9.7	0.96							10.0				1.03	0.49	0.90	52				c
UV	Verr.	1	*vaub.*	88318	c	mj	24.0	4.4	4.1	1.07	3.2	3.6	0.88	1.12	1.36	20.0	7.5	13.0	0.65	0.38	1.84	0.27	0.53	30		5.5	0.28	dc
LV	Inos.	1	*vaub.*	88320	c-pa	j	32.7	6.9	7.4	0.94	5.9	6.4	0.92	1.16	1.18	29.5	11.5	19.0	0.64	0.39	1.56	0.32	0.62	35		10.0	0.34	dc
LV	Neoc.	1	*touc.*	88352	pmpp	j	33.4	7.2	8.1	0.89	6.7	7.4	0.91	1.10	1.08	28.0	11.0	18.0	0.64	0.39	1.36	0.37	0.71	40		7.5	0.27	dc
LV	Neoc.	1	*touc.*	88357	pmpp	sa	40.3	8.7	10.2	0.85	8.3	8.8	0.95	1.16	1.04	35.0	14.0	24.0	0.69	0.40	1.38	0.36	0.70	40		13.5	0.39	dc
LV	Neoc.	1	*touc.*	88555	pmpp	j	29.9	6.1	7.0	0.87	5.6	6.4	0.87	1.10	1.09	26.5	12.0	17.5	0.66	0.45	1.72	0.29	0.57	32		9.0	0.34	d
LV	Neoc.	1	*vaub.*	88556	pp	sa	26.6	8.4	9.0	0.93							14.0				1.56	0.32	0.62	36				dc
LV	Neoc.	1	*touc.*	88557	pmpp	j	25.6	5.1	5.7	0.89	5.1	5.6	0.91	1.03	1.00	22.5	10.5	12.0	0.53	0.47	1.85	0.27	0.53	30		7.5	0.33	dc
LV	Neoc.	1	*suborb.*	88563	c-pa	a	60.9	11.1	13.1	0.85	10.8	11.9	0.91	1.11	1.03	56.5	24.0	42.5	0.75	0.42	1.83	0.27	0.53	31		20.0	0.35	c
LV	Neoc.	1	*suborb.*	88574	pmpp	j	27.1	5.1	5.3	0.95	4.1	4.5	0.91	1.20	1.25	23.0	11.0	14.0	0.61	0.48	2.06	0.24	0.48	27		6.5	0.28	c
LV	Pert.	1	*suborb.*	88591	pmpp	j	31.6	5.6	5.9	0.95	5.0	5.5	0.90	1.07	1.13	28.0	12.0	20.0	0.71	0.43	2.03	0.25	0.48	28		8.0	0.29	c
LV	Pert.	1	*vaub.*	88593	pmpp	vj	19.1	4.3	4.5	0.95	3.7	4.0	0.91	1.13	1.17	19.0	8.5	12.0	0.63	0.45	1.88	0.27	0.52	30		5.0	0.26	dc
LV	Pert.	1	*touc.*	88595	pmpp	vj	22.5	4.2	4.5	0.93	3.3	3.9	0.85	1.16	1.26	21.0	8.0	13.0	0.62	0.38	1.79	0.28	0.54	31		5.0	0.24	d
LV	Neoc.	1	sp.	88666	c	sa																						
LV	Neoc.	1	*vaub.*	88673	pmpp	sa	37.0	8.4	9.2	0.91	7.2	8.4	0.86	1.10	1.18	34.5	15.5	21.0	0.61	0.45	1.68	0.30	0.58	33		7.0	0.20	dc
LV	Neoc.	1	*touc.*	88674	pmpp	j	26.3	5.3	6.0	0.88	4.5	5.1	0.89	1.19	1.18	25.0	11.0	18.0	0.72	0.44	1.82	0.27	0.54	31		7.0	0.28	d
LV	Neoc.	1	*vaub.*	88685	c-pa	vj	22.8	4.1	4.5	0.92	3.1	3.4	0.93	1.34	1.33	19.0	6.5	15.0	0.79	0.34	1.44	0.35	0.67	38		4.5	0.24	c
LV	Neoc.	1	*vaub.*	88824	c	vj	31.4	4.9	5.3	0.92	3.9	4.2	0.92	1.27	1.27	28.5	9.5	20.0	0.70	0.33	1.78	0.28	0.55	31		6.0	0.21	dc
LV	Neoc.	1	*touc.*	88825	pp	j/sa	28.8	7.3	8.4	0.88							13.0				1.55	0.32	0.62	36				d
LV	Neoc.	1	*vaub.*	88827	pp	j	19.1	5.3	5.8	0.91							9.0				1.55	0.32	0.62	36				c
LV	Neoc.	1	*orb.*	88871	c-pa	vj	23.6	4.8	4.9	0.99	3.9	4.4	0.89	1.12	1.25	21.0	7.5	16.0	0.76	0.36	1.53	0.33	0.63	36		6.0	0.29	c
LV	Neoc.	1	*vaub.*	88873	pmpp	mj	16.7	3.1	3.2	0.97	2.5	2.8	0.88	1.14	1.27	16.0	5.5	9.5	0.59	0.34	1.73	0.29	0.56	32		3.5	0.22	dc
LV	Neoc.	1	*vaub.*	88938	pmpp	a	48.0	11.6	13.5	0.86	9.1	10.2	0.89	1.33	1.28	46.5	18.0	31.0	0.67	0.39	1.33	0.38	0.72	41		19.0	0.41	dc
LV	Neoc.	1	*orb.*	88939	pp	sa	27.0	9.1	9.6	0.94							11.5				1.19	0.42	0.79	45				c
LV	Neoc.	1	*orb.*	88940	c	j	35.5	6.5	7.3	0.89	5.6	6.2	0.91	1.18	1.15	29.5	8.5	21.5	0.73	0.29	1.16	0.43	0.81	46		9.0	0.31	c
LV	Neoc.	1	*vaub.*	88941	pmpp	j	24.9	5.6	6.0	0.94							9.5				1.59	0.32	0.61	35				dc
LV	Neoc.	1	*touc.*	88942	c	vj	24.0	3.8	4.4	0.86	3.0	3.4	0.88	1.32	1.29	20.5	8.0	13.0	0.63	0.39	1.81	0.28	0.54	31		4.0	0.20	dc
LV	Neoc.	1	*suborb.*	88952	pmpp	j	24.6	5.1	5.5	0.93	4.5	5.1	0.88	1.08	1.14	23.0	11.5	11.0	0.48	0.50	2.10	0.24	0.47	27		6.5	0.28	c
LV	Neoc.	1	sp.	88955	pp	j																						
LV	Neoc.	1	*touc.*	88973	pp	a	33.3	10.9	12.9	0.85							17.5				1.36	0.37	0.70	40				dc
LV	Neoc.	1	*vaub.*	88974	pp	j		7.3	7.8	0.93																		
LV	Neoc.	1	*vaub.*	88975	pp	j	22.4	5.8	6.4	0.90							11.0				1.72	0.29	0.57	32				dc
LV	Neoc.	1	sp.	88976	pp	sa	25.4																					
UV	Verr.	1	*vaub.*	89039	pmpp	a	33.0	10.6	11.4	0.93							14.5				1.27	0.39	0.75	43				dc
UV	Verr.	1	*vaub.*	89040	c	j	45.8	7.4	7.9	0.93	6.8	7.2	0.94	1.10	1.09	31.5	12.5	28.0	0.89	0.40	1.58	0.32	0.61	35		13.0	0.41	dc
UV	Verr.	1	*vaub.*	89041	c-pa	j	29.5	6.5	7.2	0.90	5.9	6.5	0.90	1.10	1.10	27.5	11.5	19.0	0.69	0.42	1.61	0.31	0.60	35		11.5	0.42	d
UV	Verr.	1	*vaub.*	89042	pmpp	j/sa	25.6	7.6	8.4	0.90							13.0				1.55	0.32	0.62	36				dc
UV	Verr.	1	*vaub.*	89043	pp	j	19.6	6.9	7.1	0.97							10.5				1.47	0.34	0.65	37				dc
UV	Verr.	1	*vaub.*	89044	pp	j	19.9	7.5	7.9	0.94							13.0				1.64	0.31	0.59	34				dc
UV	Verr.	1	sp.	89046	f																							
UV	Verr.	1	*orb.*	89047	f	j																						c
UV	Pere.	1	*vaub.*	89301	pp	a	21.3	10.0	11.1	0.90							16.0				1.44	0.35	0.67	38				c
UV	Verr.	1	*orb.*	89329	pmpp	j	29.3	8.2	9.0	0.91							11.0				1.22	0.41	0.78	45				dc
UV	Verr.	1	*vaub.*	89330	pp	j	18.3	8.3	8.4	0.99							14.0				1.67	0.30	0.58	33				d
LV	Neoc.	1	*touc.*	89345	pmpp	j	31.9	6.8	7.8	0.88	6.3	7.0	0.91	1.12	1.08	28.5	9.5	19.5	0.68	0.33	1.22	0.41	0.78	44		9.5	0.33	dc
LV	Neoc.	1	*suborb.*	89435	pmpp	a	42.1	10.8	11.9	0.90							20.0				1.68	0.30	0.58	33				dc
LV	Neoc.	1	*touc.*	89437	c	j	30.5	5.3	5.8	0.92	4.9	5.1	0.96	1.13	1.08	27.5	11.0	21.0	0.76	0.40	1.90	0.26	0.51	29		8.5	0.31	d
LV	Pert.	1	*touc.*	89629	c-pa	a	53.0	9.5	11.0	0.87	9.8	10.4	0.95	1.06	0.97	46.0	13.5	31.0	0.67	0.29	1.23	0.41	0.77	44		21.0	0.46	dc

11	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldlat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Pert.	1	*orb.*	89630	pmpp	j	33.5	6.4	7.1	0.90	6.1	6.8	0.89	1.04	1.05	29.0	7.5	24.0	0.83	0.26	1.06	0.47	0.88	50		9.5	0.33	dc
LV	Pert.	1	*touc.*	89631	c-pa	j	37.2																0.00					dc
LV	Pert.	1	*touc.*	89632	c-pa	vj	21.3	3.7	4.1	0.92	3.1	3.3	0.92	1.23	1.22	19.0	7.0	15.0	0.79	0.37	1.72	0.29	0.56	32		4.5	0.24	d
LV	Pert.	1	*touc.*	89633	pmpp	j																						d
LV	Pert.	1	*touc.*	89634	pmpp	sa	33.9	7.9	8.8	0.90	7.4	8.2	0.90	1.07	1.07	32.0	11.0	23.0	0.72	0.34	1.25	0.40	0.76	44		12.0	0.38	dc
LV	Pert.	1	*touc.*	89635	c-pa	sa	41.7	8.2	9.2	0.89	7.8	8.4	0.93	1.10	1.05	37.0	10.0	27.0	0.73	0.27	1.08	0.46	0.86	50		18.0	0.49	d
LV	Pert.	1	*vaub.*	89636	c-pa	vj	26.9	5.2	5.6	0.93	4.4	4.7	0.94	1.19	1.18	24.0	9.5	15.0	0.63	0.40	1.70	0.29	0.57	33		5.5	0.23	dc
LV	Pert.	1	*touc.*	89637	c-pa	sa	45.6	7.5	8.4	0.89	8.1	8.3	0.97	1.01	0.93	40.0	13.0	31.0	0.78	0.33	1.54	0.32	0.63	36		15.5	0.39	d
LV	Pert.	1	*touc.*	89638	c	j	42.5	7.5	8.6	0.87	7.4	7.9	0.94	1.09	1.01	37.0	11.0	24.0	0.65	0.30	1.27	0.39	0.75	43		14.0	0.38	dc
LV	Pert.	1	*vaub.*	89639	pmpp	a	43.9	10.4	11.5	0.90	9.2	10.4	0.89	1.11	1.12	40.0	14.0	30.0	0.75	0.35	1.21	0.41	0.78	45		17.0	0.43	dc
LV	Pert.	1	*touc.*	89650	c	vj	29.3	4.9	5.0	0.98	4.1	4.5	0.92	1.11	1.18	23.5	9.5	15.0	0.64	0.40	1.90	0.26	0.51	29		5.5	0.23	d
LV	Pert.	1	*touc.*	89652	c-pa	vj	26.3	4.4	4.9	0.90	4.0	4.4	0.91	1.11	1.10	23.5	7.5	14.0	0.60	0.32	1.53	0.33	0.63	36		4.0	0.17	d
UV	Verr.	1	sp.	89702	pmpp	j	25.9																0.00					
UV	Verr.	1	sp.	89706	pp	a	26.8																0.00					
UV	Verr.	1	*orb.*	89707	pp	j	19.7	8.5	9.2	0.93							12.0				1.30	0.38	0.73	42				c
UV	Verr.	1	*vaub.*	89865	c-pa	sa	48.1	9.8	10.3	0.95	9.6	10.0	0.96	1.03	1.02	38.5	14.5	26.0	0.68	0.38	1.41	0.35	0.68	39		16.0	0.42	c
UV	Verr.	1	*vaub.*	89866	pmpp	sa	43.0	10.6	11.0	0.96	9.4	9.8	0.95	1.12	1.13	38.0	15.0	33.0	0.87	0.39	1.36	0.37	0.70	40		14.5	0.38	c
UV	Verr.	1	*vaub.*	89867	pmpp	a	35.4	11.7	12.5	0.93							17.0				1.36	0.37	0.71	40				dc
UV	Verr.	1	*vaub.*	89868	pmpp	j/sa	36.0	9.0	9.7	0.93	8.7	9.1	0.96	1.06	1.03	34.0	14.0	28.0	0.82	0.41	1.45	0.34	0.66	38				dc
UV	Verr.	1	*suborb.*	89869	c-pa	sa	47	9.3	9.5	0.98	8.8	8.8	1.00	1.08	1.05	43.0	19.0	33.0	0.77	0.44	2.00	0.25	0.49	28		17.0	0.40	c
UV	Verr.	1	*vaub.*	89870	c-pa	mj	19,1	3.6	3.3	1.10	2.4	2.8	0.85	1.15	1.49	17.0	5.5	9.5	0.56	0.32	1.68	0.30	0.58	33		3.0	0.18	dc
UV	Verr.	1	*touc.*	89871	c	j/sa	43.8	7.5	8.9	0.84	7.5	8.4	0.89	1.07	1.01	38.0	12.5	28.0	0.74	0.33	1.40	0.36	0.69	39		15.0	0.39	dc
UV	Verr.	1	sp.	89872	pmpp	j																	0.00					
UV	Verr.	1	*vaub.*	89873	c-pa	j	36.0	6.9	7.2	0.96	6.1	6.9	0.88	1.04	1.15	30.5	11.0	22.0	0.72	0.36	1.53	0.33	0.63	36		8.0	0.26	dc
UV	Verr.	1	*vaub.*	89874	pmpp	j/sa	29.2	8.3	9.2	0.91							12.0				1.31	0.38	0.73	42				dc
UV	Verr.	1	*touc.*	89875	pp	sa	26.2	7.5	8.7	0.87							12.0				1.39	0.36	0.69	40				d
UV	Verr.	1	sp.	89876	pmpp	vj	20.5																0.00					
UV	Verr.	1	*vaub.*	89877	pp	j	19.4	5.2	5.3	0.97							10.0				1.87	0.27	0.52	30				dc
UV	Verr.	1	*vaub.*	89878	pp	j	20.4	6.3	7.0	0.91							11.0				1.58	0.32	0.61	35				dc
UV	Pere.	1	*orb.*	89902	pmpp	j	32.0	8.2	9.1	0.90	7.0	7.8	0.90	1.17	1.17	29.0	9.0	21.5	0.74	0.31	0.99	0.51	0.94	54		12.0	0.41	c
LV	Neoc.	1	*suborb.*	89974	pmpp	sa	41.6	8.1	9.0	0.89	8.2	8.4	0.98	1.08	0.98	38.0	19.5	25.0	0.66	0.51	2.16	0.23	0.46	26		12.5	0.33	c
LV	Neoc.	1	*suborb.*	89975	pp	a	40.2	11.9	13.9	0.85							22.0				1.58	0.32	0.61	35				c
UV	Verr.	1	*vaub.*	90031	c	j	38.6	5.9	6.2	0.94	5.2	5.6	0.92	1.11	1.13	29.0	10.5	21.0	0.72	0.36	1.69	0.30	0.57	33		10.5	0.36	
UV	Verr.	1	*vaub.*	90032	pp	mj	14.0	3.6	3.7	0.99							6.0				1.63	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	90033	pp	sa	26.6	9.0	9.3	0.97							14.0				1.50	0.33	0.64	37				dc
LV	Neoc.	1	*vaub.*	90172	c-pa	j	40.0	7.8	8.9	0.88	7.1	7.8	0.91	1.14	1.10	33.0	14.5	24.0	0.73	0.44	1.63	0.31	0.59	34		12.5	0.38	dc
UV	Verr.	1	*vaub.*	90210	pmpp	vj/j	24.6	5.7	6.0	0.96	5.2	5.6	0.93	1.07	1.10	23.5	10.0	17.0	0.72	0.43	1.68	0.30	0.58	33		7.0	0.30	c
UV	Verr.	1	*orb.*	90265	pmpp	a	37.3	11.8	13.0	0.91	10.4	11.1	0.94	1.17	1.14	36.0	12.0	28.0	0.78	0.33	0.93	0.54	0.99	57		11.0	0.31	dc
UV	Verr.	1	sp.	90275	pmpp	sa																						
UV	Verr.	1	*orb.*	90284	c	sa	43.7	8.9	9.8	0.91	8.2	8.8	0.93	1.12	1.09	36.0	11.0	21.0	0.58	0.31	1.12	0.44	0.84	48		17.0	0.47	c
UV	Verr.	1	*vaub.*	90285	pmpp	sa	30.9	8.8	9.1	0.97							13.0				1.43	0.35	0.67	38				dc
UV	Verr.	1	*orb.*	90286	pmpp	vj	22.0	4.8	5.0	0.96	3.8	4.2	0.89	1.19	1.27	20.5	7.0	13.5	0.66	0.34	1.39	0.36	0.69	40		6.5	0.32	dc
UV	Verr.	1	*vaub.*	90342	c-pa	a	49.8	11.0	12.0	0.92	9.4	10.5	0.90	1.15	1.17	47.5	16.0	26.0	0.55	0.34	1.33	0.38	0.72	41		20.0	0.42	dc
UV	Verr.	1	*vaub.*	90343	c	a	55.4	11.4	13.1	0.87	10.1	10.9	0.93	1.19	1.13	49.0	17.0	37.0	0.76	0.35	1.30	0.38	0.73	42		21.0	0.43	dc
UV	Verr.	1	*vaub.*	90344	pmpp	sa	43.6	10.7	11.1	0.96	10.4	10.5	1.00	1.06	1.02	39.5	16.0	31.0	0.78	0.41	1.44	0.35	0.67	38		18.5	0.47	dc
UV	Verr.	1	*orb.*	90345	pmpp	sa	39.5	9.3	10.4	0.89	9.2	10.0	0.92	1.05	1.01	38.0	12.0	28.0	0.74	0.32	1.15	0.44	0.82	47		15.0	0.39	c
UV	Verr.	1	sp.	90346	pmpp	sa	42,1																0.00					
UV	Verr.	1	*suborb.*	90347	c-pa	j	41.8	8.3	8.6	0.96	8.7	9.0	0.97	0.96	0.95	37.5	16.5	21.0	0.56	0.44	1.92	0.26	0.51	29		13.0	0.35	c
UV	Verr.	1	*vaub.*	90348	pmpp	j/sa	30,8	8.8	10.0	0.88	8.1	8.4	0.96	1.18	1.08	31.0	14.0	18.0	0.58	0.45	1.41	0.36	0.68	39		9.0	0.29	dc
UV	Verr.	1	*suborb.*	90349	c	j	37.7	7.5	7.8	0.96	7.1	7.5	0.94	1.03	1.05	34.0	15.5	24.5	0.72	0.46	1.99	0.25	0.49	28		16.0	0.47	dc
UV	Verr.	1	sp.	90350	pp	j	25.8																0.00					
UV	Verr.	1	*orb.*	90351	pmpp	j	32.0	8.0	8.6	0.93	7.7	8.0	0.95	1.07	1.04	30.0	10.0	19.0	0.63	0.33	1.16	0.43	0.81	47		12.0	0.40	dc
UV	Verr.	1	*orb.*	90352	c-pa	vj	28.4	4.9	5.2	0.94	4.4	4.6	0.94	1.13	1.12	25.0	8.0	15.5	0.62	0.32	1.53	0.33	0.63	36		7.0	0.28	dc
UV	Verr.	1	*orb.*	90353	pmpp	j	23.3	6.1	6.2	0.99							8.0				1.29	0.39	0.74	42				dc
UV	Verr.	1	*vaub.*	90354	pmpp	mj	16.9	4.0	3.9	1.03							7.0				1.78	0.28	0.55	31				dc
UV	Verr.	1	*vaub.*	90355	pmpp	vj	22.8	5.2	5.4	0.97	4.2	4.6	0.91	1.16	1.24	21.5	9.5	13.5	0.63	0.44	1.77	0.28	0.55	32		7.0	0.33	dc
UV	Verr.	1	sp.	90356	f	a	45.2																0.00		18			
UV	Verr.	1	*vaub.*	90357	pp	j	22.5	6.7	7.2	0.93							12.0				1.66	0.30	0.59	34				dc
UV	Verr.	1	*vaub.*	90358	pmpp	vj	16.8	4.0	4.0	0.99							7.5				1.88	0.27	0.52	30				dc
UV	Verr.	1	*vaub.*	90359	pmpp	mj	15.4	4.3	4.5	0.96							8.5				1.88	0.27	0.52	30				dc
LV	Inos.	1	*suborb.*	90451	pmpp	sa	38.4	9.0	9.3	0.96	8.8	9.2	0.96	1.02	1.01	34.0	17.5	23.0	0.68	0.51	1.88	0.27	0.52	30		9.0	0.26	c
LV	Inos.	1	*suborb.*	90454	pmpp	tj	21.0	4.4	4.5	0.98	3.6	4.0	0.92	1.13	1.20	20.0	9.5	12.0	0.60	0.48	2.13	0.23	0.46	26		4.0	0.20	c
LV	Inos.	1	*vaub.*	90463	c	j	45.0	7.8	8.9	0.87	6.6	7.2	0.92	1.24	1.18	39.5	13.0	31.0	0.78	0.33	1.46	0.34	0.66	38		16.0	0.41	dc
LV	Inos.	1	*touc.*	90464	c	j	44.7	7.4	8.9	0.83	8.0	8.5	0.95	1.05	0.92	36.0	13.0	25.0	0.69	0.36	1.46	0.34	0.66	38		17.0	0.47	d
LV	Inos.	1	*touc.*	90465	c-pa	sa	42.9	7.7	9.2	0.84	8.2	8.4	0.98	1.09	0.94	38.5	15.0	27.0	0.70	0.39	1.64	0.31	0.59	34		15.5	0.40	dc
LV	Inos.	1	*vaub.*	90466	c	vj	32.0	5.0	5.4	0.92	4.8	5.0	0.94	1.08	1.06	26.5	9.0	18.5	0.70	0.34	1.65	0.30	0.59	34		8.0	0.30	dc
LV	Inos.	1	*vaub.*	90467	pmpp	j	30.6	5.7	6.3	0.90	5.0	5.3	0.93	1.19	1.15	26.0	12.0	17.0	0.65	0.46	1.89	0.26	0.52	30		6.5	0.25	dc
LV	Inos.	1	*orb.*	90468	pmpp	j	24.1	5.3	5.8	0.92	4.4	5.1	0.87	1.14	1.21	23.0	8.0	16.5	0.72	0.35	1.39	0.36	0.69	40		6.0	0.26	dc
LV	Inos.	1	*vaub.*	90469	pmpp	vj	19.2	3.7	4.0	0.92	2.9	3.3	0.90	1.23	1.27	17.0	7.0	10.0	0.59	0.41	1.75	0.29	0.56	32		4.0	0.24	dc
LV	Inos.	1	*touc.*	90470	pp	a	33.9	10.4	12.6	0.83							20.0				1.59	0.31	0.61	35				dc
UV	Verr.	1	*orb.*	90483	pmpp	j	34.4	7.6	8.1	0.94	7.2	7.8	0.92	1.04	1.06	32.5	10.0	25.0	0.77	0.31	1.24	0.40	0.77	44	18	15.0	0.46	dc
UV	Verr.	1	*vaub.*	90484	pp	sa	28.1	8.7	9.8	0.88							14.0				1.42	0.35	0.68	39				dc
UV	Verr.	1	*vaub.*	90530	c-pa	a	48.7	9.0	10.2	0.88	10.0	10.1	0.99	1.01	0.90	40.5	16.0	30.0	0.74	0.40	1.56	0.32	0.62	35		16.5	0.41	dc
UV	Verr.	1	*orb.*	90531	c-pa	j/sa	36.3	8.2	8.8	0.93	8.1	8.2	0.99	1.07	1.01	33.0	9.0	26.0	0.79	0.27	1.02	0.49	0.91	52		15.0	0.45	c
UV	Verr.	1	*vaub.*	90532	c-pa	j/sa	41.3	7.5	7.9	0.96	7.0	7.4	0.95	1.07	1.08	36.0	13.0	25.0	0.69	0.36	1.65	0.30	0.59	34		12.0	0.33	dc
UV	Verr.	1	*orb.*	90533	c	j	37.2	6.1	6.4	0.95	6.0	6.3	0.96	1.02	1.02	26.5	8.0	17.5	0.66	0.30	1.26	0.40	0.76	43		9.5	0.36	dc
UV	Verr.	1	*vaub.*	90534	pp	a	21.3																0.00					
UV	Verr.	1	*suborb.*	90535	pmpp	j/sa	33.9	7.5	8.0	0.94	6.1	6.8	0.91	1.18	1.22	32.5	15.0	24.5	0.75	0.46	1.88	0.27	0.52	30		11.0	0.34	c
UV	Verr.	1	*vaub.*	90536	pmpp	j	28.7	6.2	6.3	0.98	5.1	5.2	0.98	1.21	1.20	27.5	10.0	21.0	0.76	0.36	1.58	0.32	0.61	35		9.5	0.35	c
UV	Verr.	1	*orb.*	90537	pmpp	j	28.8	6.5	6.7	0.97	5.3	5.9	0.91	1.13	1.21	28.0	8.5	17.0	0.61	0.30	1.28	0.39	0.75	43		9.0	0.32	dc

12	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*vaub.*	90538	pmpp	j	29.1	6.8	7.2	0.94	6.5	6.8	0.96	1.07	1.05	25.5	11.5	16.5	0.65	0.45	1.60	0.31	0.61	35		10.0	0.39	dc
UV	Verr.	1	*vaub.*	90539	pmpp	j	26.2	6.5	6.9	0.95	6.2	6.4	0.97	1.07	1.05	24.5	10.0	16.0	0.65	0.41	1.45	0.34	0.66	38		9.0	0.37	dc
UV	Verr.	1	*vaub.*	90540	pmpp	sa	30.2	9.5	10.3	0.93							14.5				1.41	0.35	0.68	39	18			dc
UV	Verr.	1	*orb.*	90541	pmpp	a	34.3	10.2	11.3	0.90							11.0				0.97	0.51	0.95	54				c
UV	Verr.	1	*orb.*	90542	pp	j	23.1	8.1	8.7	0.94							10.0				1.15	0.43	0.82	47				c
UV	Verr.	1	*orb.*	90543	pp	sa	24.1	9.8	10.1	0.97							10.0				0.99	0.51	0.94	54				dc
UV	Verr.	1	*orb.*	90544	pp	sa	18.7	10.2	11.2	0.91							12.0				1.07	0.47	0.87	50				c
LV	Neoc.	1	*touc.*	90595	pmpp	j/sa	33.8	7.6	9.5	0.80	6.5	7.5	0.87	1.28	1.18	32.5	15.0	21.0	0.65	0.46	1.58	0.32	0.61	35		14.0	0.43	dc
LV	Neoc.	1	*vaub.*	90596	pmpp	j	30.4	5.8	6.2	0.94	5.1	5.4	0.95	1.14	1.13	27.0	11.0	16.5	0.61	0.41	1.78	0.28	0.55	31		8.0	0.30	dc
UV	Verr.	1	*vaub.*	90615	c	vj	31.5	5.4	5.6	0.98	4.9	5.2	0.94	1.06	1.11	23.5	10.0	14.0	0.60	0.43	1.80	0.28	0.54	31		8.0	0.34	dc
UV	Verr.	1	*vaub.*	90616	pmpp	vj/j	25.5	5.6	5.7	0.98	4.5	4.7	0.97	1.23	1.24	23.5	9.5	15.0	0.64	0.40	1.66	0.30	0.59	34		8.0	0.34	dc
UV	Verr.	1	*orb.*	90617	pp	j	24.0	7.3	7.4	0.98							8.8				1.18	0.42	0.80	46				dc
UV	Verr.	1	*orb.*	90618	pp	j	19.9	7.2	7.6	0.95							11.0				1.45	0.35	0.67	38				c
UV	Verr.	1	*vaub.*	90637	pmpp	j/sa	30.8	8.2	8.9	0.92	7.6	8.4	0.90	1.05	1.07	30.0	12.5	20.0	0.67	0.42	1.41	0.35	0.68	39		10.0	0.33	dc
UV	Verr.	1	*vaub.*	90648	c	j/sa	53.1	9.0	9.3	0.96	7.7	7.6	1.01	1.22	1.17	37.5	14.0	28.0	0.75	0.37	1.50	0.33	0.64	37		12.0	0.32	dc
UV	Verr.	1	*touc.*	90649	c	sa	46.6	8.7	9.9	0.88	8.4	8.8	0.96	1.13	1.04	42.0	12.5	29.0	0.69	0.30	1.26	0.40	0.75	43		18.5	0.44	dc
UV	Verr.	1	*orb.*	90650	pmpp	sa	34.6	8.6	9.2	0.94	8.7	9.2	0.94	0.99	0.99	30.0	10.0	18.0	0.60	0.33	1.09	0.46	0.86	49		12.0	0.40	c
UV	Verr.	1	*vaub.*	90651	pmpp	sa	36.2	8.2	8.7	0.93	8.0	8.2	0.97	1.06	1.02	32.5	13.0	22.0	0.68	0.40	1.49	0.34	0.65	37		9.5	0.29	dc
UV	Verr.	1	sp.	90707	pmpp	sa																						
UV	Verr.	1	*vaub.*	90712	pmpp	a	44.2	10.8	11.7	0.92	9.4	9.9	0.96	1.19	1.15	41.0	17.0	33.0	0.80	0.41	1.45	0.34	0.66	38		16.0	0.39	dc
UV	Verr.	1	*touc.*	90713	pmpp	sa	34.4	8.1	9.7	0.83	7.9	9.0	0.87	1.07	1.02	32.5	13.0	27.0	0.83	0.40	1.34	0.37	0.71	41				dc
UV	Verr.	1	*vaub.*	90714	c-pa	j	37.4	7.0	6.8	1.03	5.7	5.8	0.99	1.19	1.23	33.5	10.0	25.5	0.76	0.30	1.46	0.34	0.66	38		11.0	0.33	dc
UV	Verr.	1	*touc.*	90718	pp	a	27.2	9.7	11.1	0.87							15.0				1.35	0.37	0.71	41				dc
UV	Verr.	1	*orb.*	90719	pp	j	28.9	8.1	8.7	0.93							12.0				1.39	0.36	0.69	40				dc
UV	Verr.	1	*vaub.*	90737	c-pa	a	47.6	10.0	11.1	0.91	9.4	10.2	0.92	1.08	1.06	44.0	15.5	30.0	0.68	0.35	1.40	0.36	0.68	39		17.0	0.39	dc
UV	Verr.	1	*vaub.*	90738	pp	a	28.8	10.5	11.9	0.88							16.0				1.34	0.37	0.71	41				c
UV	Verr.	1	*orb.*	90739	pmpp	sa	31.5	8.5	9.2	0.93	8.2	8.6	0.95	1.07	1.04	29.0	10.5	21.0	0.72	0.36	1.14	0.44	0.82	47				c
UV	Verr.	1	*vaub.*	90740	pp	a	30.1	10.9	11.5	0.94							16.5				1.43	0.35	0.67	38				dc
UV	Verr.	1	*vaub.*	90741	pp	sa	29.7	8.6	9.1	0.95						28.0	14.0				1.54	0.32	0.63	36				dc
UV	Verr.	1	*orb.*	90742	pp	a	29.8	10.6	11.8	0.90						28.0	13.0				1.10	0.46	0.85	49				c
UV	Verr.	1	*orb.*	90743	pmpp	j	28.7	6.6	7.0	0.95	6.1	6.3	0.97	1.11	1.09	25.5	9.5	17.0	0.67	0.37	1.36	0.37	0.70	40		9.5	0.37	c
UV	Verr.	1	*vaub.*	90744	pp	j	28.9	7.8	7.8	0.99						27.0	12.0				1.53	0.33	0.63	36				c
UV	Verr.	1	*orb.*	90745	pp	j	24.2	6.7	6.7	0.99							9.0				1.34	0.37	0.71	41				c
UV	Verr.	1	*suborb.*	90746	pmpp	sa	20.5	8.5	9.2	0.92							19.0				2.07	0.24	0.48	27				c
UV	Verr.	1	*vaub.*	90747	pmpp	j	20.5																					
UV	Verr.	1	sp.	90749	pp	a	29.5																0.00					
UV	Verr.	1	*vaub.*	90750	pmpp	j	29.4	8.1	9.0	0.91							15.0				1.68	0.30	0.58	33				dc
UV	Verr.	1	*vaub.*	90751	pp	j	21.9	5.8	6.3	0.92							10.0				1.58	0.32	0.61	35				dc
UV	Verr.	1	*vaub.*	90752	pmpp	j/sa	26.7	7.9	8.5	0.94							13.0				1.53	0.33	0.63	36				dc
UV	Verr.	1	*vaub.*	90753	pmpp	a	37.4	9.9	10.9	0.91	9.9	10.4	0.96	1.05	1.00	33.0	15.0	21.0	0.64	0.45	1.38	0.36	0.69	40				dc
UV	Verr.	1	*touc.*	90754	pmpp	sa	33.7	8.6	9.8	0.88	7.8	8.4	0.93	1.17	1.11	32.0	13.0	23.0	0.72	0.41	1.33	0.38	0.72	41		11.0	0.34	dc
UV	Verr.	1	*vaub.*	90755	pmpp	a	39.6	11.6	12.4	0.94							16.0				1.30	0.39	0.74	42				c
UV	Verr.	1	*suborb.*	90756	pmpp	sa	33.8	8.4	9.1	0.92	7.8	8.8	0.88	1.03	1.07	32.0	16.5	19.0	0.59	0.52	1.82	0.28	0.54	31		12.0	0.38	c
UV	Verr.	1	*orb.*	90757	c-pa	j/sa	44.7	8.8	9.0	0.98	7.4	8.3	0.90	1.08	1.18	43.0	9.0	30.0	0.70	0.21	1.00	0.50	0.92	53		17.0	0.40	c
UV	Verr.	1	*orb.*	90758	pmpp	sa	30.3	9.6	10.3	0.94							12.0				1.17	0.43	0.81	46				c
UV	Verr.	1	*vaub.*	90759	pp	sa	30.0	8.7	9.6	0.90							14.0				1.45	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	90760	pp	sa	29.0	8.8	9.4	0.93							14.5				1.54	0.33	0.63	36				c
UV	Verr.	1	*orb.*	90761	pmpp	j	26.8	7.8	7.9	0.98							11.0				1.39	0.36	0.69	40				dc
UV	Verr.	1	*touc.*	90762	pmpp	j	24.8	5.6	6.2	0.90	5.3	5.9	0.91	1.07	1.05	24.0	10.0	15.0	0.63	0.42	1.60	0.31	0.60	35		8.0	0.33	d
UV	Verr.	1	*suborb.*	90763	pp	j	27.8	6.9	7.7	0.89							16.0				2.07	0.24	0.47	27				c
UV	Verr.	1	*orb.*	90764	pp	j	25.4	7.2	7.7	0.95							9.5				1.24	0.40	0.77	44				c
UV	Verr.	1	*orb.*	90765	pp	j	24.5	7.8	8.5	0.92							11.0				1.30	0.39	0.74	42				c
UV	Verr.	1	*vaub.*	90766	pp	j	25.0	7.6	8.3	0.91							13.5				1.62	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	90767	pmpp	j	23.0	5.8	6.4	0.91							10.5				1.65	0.30	0.59	34				dc
UV	Verr.	1	*vaub.*	90768	pmpp	j	24.3	6.4	6.7	0.96							11.0				1.64	0.30	0.59	34				dc
UV	Verr.	1	*orb.*	90769	pmpp	j	22.0	6.3	6.6	0.95							9.0				1.37	0.37	0.70	40				dc
UV	Verr.	1	*orb.*	90770	pmpp	j	28.2	7.0	7.5	0.93	6.2	6.7	0.92	1.12	1.14	26.5	10.5	15.0	0.57	0.40	1.39	0.36	0.69	40		10.0	0.38	c
UV	Verr.	1	*vaub.*	90771	pmpp	j	24.6	5.6	6.0	0.93	5.4	5.6	0.97	1.08	1.04	23.5	10.0	16.0	0.68	0.43	1.66	0.30	0.58	33				dc
UV	Verr.	1	*vaub.*	90773	pmpp	vj	19.1	5.3	5.5	0.95							10.0				1.81	0.28	0.54	31				dc
UV	Verr.	1	*touc.*	90774	pmpp	sa	34.1	10.3	11.9	0.86							15.0				1.26	0.40	0.76	43				dc
UV	Verr.	1	*orb.*	90775	pmpp	j	27.6	8.0	8.9	0.89							12.0				1.34	0.37	0.71	41				dc
UV	Verr.	1	*orb.*	90776	pmpp	a	34.2	9.5	11.1	0.86	9.6	10.7	0.90	1.04	0.99	31.0	11.5	21.5	0.69	0.37	1.04	0.48	0.90	51		11.0	0.35	c
UV	Verr.	1	sp.	90777	pmpp	j	26.7																					
UV	Verr.	1	*orb.*	90778	pp	a	24.4	11.5	13.2	0.88							14.3				1.08	0.46	0.86	50				dc
UV	Verr.	1	*orb.*	90779	pmpp	j	24.0	6.5	6.8	0.96							9.0				1.33	0.38	0.72	41				c
UV	Verr.	1	*orb.*	90780	pp	sa	27.1	10.2	11.0	0.93							12.0				1.10	0.46	0.86	49				c
UV	Verr.	1	*vaub.*	90781	pmpp	j	26.7	8.0	8.0	1.00							13.0				1.62	0.31	0.60	34				dc
UV	Verr.	1	*orb.*	90782	pp	a	30.2	10.2	10.8	0.94							11.5				1.06	0.47	0.88	50				c
LV	Pert.	1	*touc.*	90804	c	j	44.2	7.0	8.1	0.86	6.6	6.9	0.96	1.17	1.06	38.0	13.0	29.0	0.76	0.34	1.61	0.31	0.60	35		11.0	0.29	d
UV	Verr.	1	*orb.*	90871	c	j	35.5	5.9	6.4	0.93	5.4	5.5	0.98	1.16	1.11	28.5	8.0	21.0	0.74	0.28	1.26	0.40	0.76	43		8.5	0.30	c
UV	Verr.	1	*vaub.*	90872	c	a	58.6	11.3	12.0	0.94	9.9	10.4	0.95	1.15	1.14	49.0	14.5	34.0	0.69	0.30	1.21	0.41	0.78	45		21.5	0.44	dc
UV	Verr.	1	*vaub.*	90873	pmpp	a	44.0	10.5	11.2	0.93	9.6	10.2	0.95	1.10	1.09	41.0	15.0	28.0	0.68	0.37	1.34	0.37	0.72	41		16.0	0.39	c
UV	Verr.	1	*vaub.*	90874	pmpp	j/sa	33.8	7.9	8.2	0.97	6.9	6.9	0.99	1.18	1.15	31.5	12.0	22.0	0.70	0.38	1.47	0.34	0.66	38		10.5	0.33	c
UV	Verr.	1	*orb.*	90875	pmpp	j	30.4	7.7	8.6	0.90	7.3	7.7	0.95	1.12	1.05	29.0	10.0	21.0	0.72	0.34	1.17	0.43	0.81	46		11.0	0.38	dc
UV	Verr.	1	sp.	90876	pa	sa																						
UV	Verr.	1	*suborb.*	90877	pp	j	23.5	8.3	8.4	1.00							16.5				1.98	0.25	0.50	28				c
UV	Verr.	1	*orb.*	90878	pp	j/sa	22.9	9.4	9.7	0.97							10.5				1.09	0.46	0.86	49				c
UV	Verr.	1	*touc.*	90879	pp	j	23.8	8.0	9.0	0.89							13.5				1.51	0.33	0.64	37				d
LV	Inos.	1	*vaub.*	91407	pmpp	sa	31.0	8.6	9.5	0.91							13.5				1.42	0.35	0.68	39				dc
LV	Inos.	1	*vaub.*	91408	pmpp	j	32.2	7.1	7.8	0.91	6.9	7.3	0.94	1.06	1.03	30.0	13.5	23.0	0.77	0.45	1.74	0.29	0.56	32		9.0	0.30	dc

13	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldlv	ldlat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Inos.	1	*touc.*	91409	pmpp	j	33.1	6.5	8.0	0.82	6.0	6.7	0.90	1.19	1.09	29.5	10.5	23.0	0.78	0.36	1.31	0.38	0.73	42		10.0	0.34	dc
LV	Inos.	1	*vaub.*	91410	pp	j	19.7	6.0	6.6	0.91							10.0				1.51	0.33	0.64	37				dc
LV	Inos.	1	*vaub.*	91411	pmpp	vj	24.6	5.1	5.3	0.97	4.4	4.7	0.93	1.14	1.18	23.5	9.0	15.0	0.64	0.38	1.69	0.30	0.57	33		7.0	0.30	dc
UV	Verr.	1	*orb.*	91428	pmpp	j	23.7	6.8	6.9	0.99							9.0				1.31	0.38	0.73	42				c
UV	Verr.	1	sp.	91429	papm	sa																						
UV	Verr.	1	*vaub.*	91434	c	mj	25.1	4.5	4.3	1.04	3.4	3.7	0.92	1.15	1.30	21.5	8.0	14.5	0.67	0.37	1.88	0.27	0.52	30		7.0	0.33	dc
UV	Verr.	1	*vaub.*	91435	pmpp	j	25.5	7.4	7.5	0.97							11.0				1.46	0.34	0.66	38				dc
UV	Verr.	1	*orb.*	91436	pmpp	mj	14.8	3.3	3.3	0.99							5.0				1.51	0.33	0.64	37				dc
UV	Verr.	1	*vaub.*	91437	pmpp	mj	15.2	4.1	4.3	0.96							7.0				1.63	0.31	0.59	34				dc
UV	Verr.	1	sp.	91438	pa	sa																						
UV	Verr.	1	sp.	91439	f																							
UV	Verr.	1	sp.	91440	f																							
UV	Verr.	1	sp.	91441	f																							
UV	Verr.	1	sp.	91442	f																							
UV	Verr.	1	*orb.*	91443	pp	j	20.3	6.8	7.3	0.93							9.5				1.31	0.38	0.73	42				dc
LV	Inos.	1	*vaub.*	91466	pmpp	j	32.4	7.2	8.0	0.90	6.8	7.1	0.96	1.13	1.06	30.0	12.0	24.0	0.80	0.40	1.49	0.33	0.65	37		7.0	0.23	c
LV	Inos.	1	sp.	91467	pmpp	vj	17																					
UV	Verr.	1	*orb.*	91470	pp	a	25.9	9.7	10.2	0.95							12.0				1.18	0.42	0.80	46				c
UV	Verr.	1	*suborb.*	91478	c	a	49.8	10.2	11.4	0.89	9.5	10.0	0.95	1.14	1.06	45.0	19.5	33.0	0.73	0.43	1.71	0.29	0.57	33	18	19.0	0.42	c
UV	Verr.	1	*vaub.*	91479	pmpp	sa	28.8	9.7	10.1	0.96							15.0				1.48	0.34	0.65	37				dc
UV	Verr.	1	*orb.*	91480	pmpp	sa	28.2	9.5	9.6	0.99							9.5				0.99	0.51	0.94	54				c
UV	Verr.	1	sp.	91481	f																							
UV	Verr.	1	sp.	91482	f																							
UV	Verr.	1	sp.	91483	f																							
UV	Verr.	1	sp.	91484	f																							
UV	Verr.	1	*orb.*	91496	c	vj/j	30.9	5.5	5.9	0.94	4.9	5.1	0.95	1.14	1.13	28.0	8.8	21.0	0.75	0.31	1.49	0.34	0.65	37		10.0	0.36	dc
UV	Verr.	1	*orb.*	91497	c	sa	41.3	7.4	8.0	0.92	7.1	7.3	0.98	1.10	1.04	35.5	9.5	27.0	0.76	0.27	1.18	0.42	0.80	46		14.5	0.41	c
UV	Verr.	1	*touc.*	91498	pmpp	sa	27.8	7.8	9.0	0.87							13.0				1.45	0.34	0.66	38				d
UV	Verr.	1	*vaub.*	91499	c	sa	39.8	8.9	9.7	0.92	7.5	8.0	0.93	1.21	1.19	34.5	14.3	24.0	0.70	0.41	1.47	0.34	0.65	37		13.0	0.38	dc
UV	Verr.	1	*orb.*	91502	c	j	37.5	6.8	6.9	0.99	5.8	5.9	0.98	1.17	1.18	29.5	8.5	23.0	0.78	0.29	1.24	0.40	0.77	44	18	11.5	0.39	c
UV	Verr.	1	*suborb.*	91503	pmpp	sa	38.9	7.8	8.9	0.87	7.9	8.5	0.93	1.05	0.99	37.0	17.0	22.0	0.59	0.46	1.91	0.26	0.51	29		16.0	0.43	c
UV	Verr.	1	*orb.*	91504	pmpp	sa	39.8	9.3	10.1	0.92	8.7	9.5	0.91	1.07	1.08	37.0	11.5	26.0	0.70	0.31	1.13	0.44	0.83	48		15.0	0.41	c
UV	Verr.	1	*orb.*	91505	pmpp	j	28.3	5.7	5.8	0.98	5.2	5.6	0.94	1.04	1.08	26.0	7.0	19.0	0.73	0.27	1.21	0.41	0.78	45		9.5	0.37	dc
UV	Verr.	1	*orb.*	91506	c-pa	sa	36.8	9.4	9.8	0.97	7.8	8.8	0.89	1.12	1.21	34.5	9.5	25.0	0.72	0.28	0.97	0.51	0.95	54		14.0	0.41	dc
UV	Verr.	1	sp.	91507	f																		0.00		18			
UV	Verr.	1	*orb.*	91508	pp	sa	13																					c
UV	Verr.	1	*suborb.*	91509	pmpp	sa	29.9	8.6	9.5	0.91							18.0				1.90	0.26	0.51	29				dc
UV	Verr.	1	sp.	91510	pm	a																						
UV	Verr.	1	*vaub.*	91511	pmpp	vj	18.9	4.6	4.7	0.97							8.0				1.69	0.30	0.57	33				dc
UV	Verr.	1	*vaub.*	91512	pmpp	mj	14.1	3.8	3.7	1.04							6.0				1.64	0.30	0.59	34				dc
UV	Verr.	1	*vaub.*	91513	pp	sa	26.3	9.7	9.9	0.98							14.5				1.46	0.34	0.66	38				dc
UV	Verr.	1	*orb.*	91514	pp	a	23.7	10.4	11.1	0.94							12.0				1.08	0.46	0.87	50				c
UV	Verr.	1	sp.	91515	f																							
UV	Verr.	1	sp.	91516	f																							
UV	Verr.	1	*suborb.*	91517	c	j/sa	46.5	7.4	8.3	0.88	7.0	7.6	0.91	1.09	1.05	38.0	17.0	29.5	0.78	0.45	2.04	0.25	0.48	28	18	13.5	0.36	dc
UV	Verr.	1	sp.	91518	pmpp	a	36																					
UV	Verr.	1	sp.	91519	pmpp	j	28.1																					
UV	Verr.	1	sp.	91520	f																							
UV	Verr.	1	sp.	91521	f																							
UV	Verr.	1	*suborb.*	91574	c	a	59.0	10.0	11.1	0.90	10.0	10.4	0.97	1.07	1.00	49.0	20.0	31.0	0.63	0.41	1.80	0.28	0.54	31		19.5	0.40	dc
UV	Verr.	1	*orb.*	91575	c-pa	a	47.3	11.3	11.5	0.98							12.0				1.04	0.48	0.89	51				c
UV	Verr.	1	sp.	91576	c	j	39																					
UV	Verr.	1	*orb.*	91577	pmpp	a	42.8	10.6	11.7	0.91	9.0	9.5	0.94	1.23	1.18	37.5	13.0	34.0	0.91	0.35	1.11	0.45	0.85	49		11.5	0.31	c
UV	Verr.	1	*orb.*	91578	pmpp	j	35.7	6.9	7.6	0.91	6.8	7.4	0.93	1.04	1.01	32.0	10.0	23.0	0.72	0.31	1.31	0.38	0.73	42	18	11.0	0.34	c
UV	Verr.	1	*orb.*	91579	pmpp	j	27.5	7.5	7.7	0.97							10.8				1.39	0.36	0.69	40				c
UV	Verr.	1	*orb.*	91580	f	j																						c
UV	Verr.	1	*suborb.*	91581	f	vj/j	18.9	4.9	5.0	0.96							11.0				2.18	0.23	0.45	26				c
UV	Verr.	1	sp.	91582	f																							
UV	Verr.	1	*vaub.*	91583	pp	j	24.1	7.5	7.7	0.97							12.3				1.60	0.31	0.61	35				dc
UV	Verr.	1	*orb.*	91584	pp	j	22.4	7.9	8.5	0.93							11.5				1.36	0.37	0.70	40				dc
UV	Verr.	1	*vaub.*	91585	c	j	43.7	6.1	6.7	0.91	5.5	6.0	0.92	1.11	1.10	34.0	11.5	24.0	0.71	0.34	1.73	0.29	0.56	32		11.0	0.32	dc
UV	Verr.	1	*orb.*	91586	c-pa	a	48.8	10.7	11.8	0.90	9.9	10.1	0.98	1.17	1.08	45.0	11.5	34.5	0.77	0.26	0.97	0.51	0.95	54		21.0	0.47	c
UV	Verr.	1	sp.	91587	pmpp	j	30.4																					
UV	Verr.	1	*orb.*	91588	pmpp	mj	14.6	4.1	4.0	1.01							6.3				1.55	0.32	0.62	36				dc
UV	Verr.	1	sp.	91589	f																							
UV	Verr.	1	sp.	91590	f																							
UV	Verr.	1	sp.	91591	f																							
UV	Verr.	1	sp.	91592	pmpp	sa	32																					
LV	Inos.	1	*touc.*	91653	pmpp	j	25.9	7.5	8.5	0.89							11.0				1.30	0.38	0.73	42				d
UV	Verr.	1	*vaub.*	91683	c	j	36.6	6.2	6.7	0.93	6.0	6.6	0.91	1.02	1.05	30.0	11.0	21.5	0.72	0.37	1.65	0.30	0.59	34		11.5	0.38	dc
UV	Verr.	1	*vaub.*	91684	c	j	40.3	7.1	7.8	0.92	6.2	6.8	0.91	1.14	1.15	32.0	12.5	24.0	0.75	0.39	1.61	0.31	0.60	34		9.5	0.30	dc
UV	Verr.	1	*orb.*	91685	pmpp	sa	38.4	8.4	9.5	0.88	8.3	9.4	0.88	1.02	1.02	34.0	12.5	24.5	0.72	0.37	1.31	0.38	0.73	42		14.0	0.41	c
UV	Verr.	1	*vaub.*	91686	pp	a	34.4	11.8	12.7	0.93						33.0	17.0				1.34	0.37	0.71	41	18			dc
UV	Verr.	1	sp.	91687	pmpp	sa																						
UV	Verr.	1	*suborb.*	91688	pp	j	23.1	7.3	7.4	0.99							15.0				2.04	0.25	0.48	28				c
UV	Verr.	1	sp.	91689	pa	sa																						
UV	Verr.	1	*vaub.*	91690	pmpp	mj	19.5	3.8	3.7	1.03	3.1	3.0	1.01	1.22	1.24	16.0	6.5	11.0	0.69	0.41	1.75	0.29	0.56	32		4.0	0.25	dc
LV	Inos.	1	*orb.*	92020	pmpp	j	34.7	7.7	8.9	0.87	6.4	6.9	0.92	1.28	1.21	29.5	9.5	21.0	0.71	0.32	1.07	0.47	0.87	50		10.0	0.34	dc
LV	Inos.	1	*suborb.*	92021	c	sa	48.8	9.5	10.5	0.90	7.7	8.3	0.93	1.26	1.23	43.0	18.5	28.0	0.65	0.43	1.76	0.28	0.55	32	18	17.0	0.40	c
UV	Verr.	1	*vaub.*	92084	pp	a	28.2	10.5	11.3	0.93							15.0				1.32	0.38	0.72	41				dc

14	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	sp.	92085	pm	j																						
UV	Verr.	1	sp.	92086	pp	j																						
UV	Verr.	1	sp.	92087	pm	a																						
UV	Verr.	1	*orb.*	92088	pp	j	19.6	6.0	6.3	0.95							8.5				1.35	0.37	0.71	41				dc
UV	Verr.	1	sp.	92089	pp																							
LV	Pert.	1	*touc.*	92126	pmpp	j	34.4	6.5	7.8	0.83	6.4	7.0	0.91	1.11	1.02	31.5	13.0	25.0	0.79	0.41	1.66	0.30	0.58	33		10.0	0.32	d
LV	Neoc.	1	*touc.*	92196	pmpp	vj	26.9	4.8	5.5	0.87							9.5				1.74	0.29	0.56	32				d
LV	Neoc.	1	*touc.*	92213	c	sa	48.2	8.7	9.9	0.87	7.5	8.6	0.86	1.15	1.16	42.5	14.5	32.0	0.75	0.34	1.46	0.34	0.66	38		14.0	0.33	d
LV	Inos.	1	*orb.*	92232	c	sa	44.0										14.0								18			c
LV	Inos.	1	*vaub.*	92233	pp	a	34.7	12.2	14.1	0.87							19.0				1.35	0.37	0.71	41				dc
LV	Inos.	1	*orb.*	92234	pp	a	32.5	10.3	12.0	0.86							15.0				1.25	0.40	0.76	44				c
LV	Inos.	1	*orb.*	92235	pp	a	28.3	12.0	14.6	0.82							13.0				0.89	0.56	1.02	59				c
LV	Inos.	1	*orb.*	92236	pp	a	25.7	11.5	13.2	0.87							14.0				1.06	0.47	0.88	50				c
LV	Inos.	1	*vaub.*	92237	pp	sa	29.4	9.1	10.0	0.91							16.0				1.60	0.31	0.61	35				dc
LV	Inos.	1	*touc.*	92238	pmpp	sa	36.3	8.1	10.2	0.79	7.8	8.5	0.91	1.20	1.04	34.0	13.0	28.0	0.82	0.38	1.27	0.39	0.75	43		13.0	0.38	d
LV	Inos.	1	*vaub.*	92239	pp	a	29.2	10.7	12.1	0.89							17.0				1.41	0.36	0.68	39				dc
LV	Inos.	1	*orb.*	92240	pp	sa	25.2	8.9	9.8	0.91							10.5				1.08	0.46	0.87	50				c
LV	Inos.	1	*touc.*	92241	pp	j	28.6	8.0	9.2	0.87							13.0				1.41	0.35	0.68	39				d
LV	Inos.	1	*orb.*	92242	pmpp	j	37.5	8.3	9.3	0.90							11.0				1.19	0.42	0.80	46	18			dc
LV	Inos.	1	*touc.*	92243	pp	j	21.3	6.6	7.4	0.89							11.0				1.48	0.34	0.65	37				d
LV	Inos.	1	*orb.*	92244	pp	j	23.3	6.9	7.7	0.89							9.0				1.17	0.43	0.81	46				c
LV	Inos.	1	*orb.*	92245	pp	j	22.6	9.4	10.6	0.88							10.0				0.94	0.53	0.98	56				c
LV	Inos.	1	*orb.*	92246	pmpp	j	24.9	6.9	7.4	0.94	6.1	6.6	0.94	1.12	1.13	24.0	8.5	16.5	0.69	0.35	1.15	0.43	0.82	47		6.0	0.25	c
LV	Inos.	1	*touc.*	92247	pp	j	26.5	7.4	8.3	0.89							12.0				1.45	0.35	0.67	38				d
LV	Inos.	1	*touc.*	92248	pmpp	j	34.5	7.4	8.3	0.89							14.0				1.69	0.30	0.57	33	18			d
LV	Inos.	1	*touc.*	92249	pp	j	24.5	8.5	9.4	0.90							15.0				1.60	0.31	0.61	35				d
LV	Inos.	1	*orb.*	92250	pmpp	j	24.3	6.4	7.1	0.91							10.0				1.42	0.35	0.68	39				dc
LV	Neoc.	1	*vaub.*	92251	pmpp	a	39.3	10.9	12.8	0.86							19.0				1.49	0.34	0.65	37				c
LV	Neoc.	1	*vaub.*	92252	pmpp	a	39.5	11.3	12.8	0.88	9.7	11.1	0.88	1.16	1.17	38.5	15.5	27.0	0.70	0.40	1.21	0.41	0.78	45		11.0	0.29	c
LV	Neoc.	1	*vaub.*	92253	pp	a	37.0	10.7	12.6	0.85							18.0				1.43	0.35	0.67	39				dc
LV	Neoc.	1	*orb.*	92254	pmpp	sa	38.2	8.8	9.8	0.90	9.1	9.9	0.91	0.98	0.97	35.0	11.5			0.33	1.18	0.42	0.80	46		16.0	0.46	dc
LV	Neoc.	1	*vaub.*	92255	pp	sa	29.0	9.4	10.9	0.86							15.0				1.38	0.36	0.70	40				dc
LV	Neoc.	1	*orb.*	92256	pp	sa	27.9	9.4	10.5	0.89							12.5				1.20	0.42	0.79	45				c
LV	Neoc.	1	*touc.*	92257	pmpp	sa	32.3	8.6	9.7	0.89							14.5				1.49	0.34	0.65	37				dc
LV	Neoc.	1	sp.	92258	pp	j	17.0																					
LV	Neoc.	1	*touc.*	92259	pp	sa	24.9	8.9	10.5	0.85							14.5				1.38	0.36	0.70	40				d
LV	Neoc.	1	*touc.*	92260	pmpp	vj	25.1	6.0	6.8	0.88							10.0				1.48	0.34	0.65	37				d
LV	Neoc.	1	*vaub.*	92261	pmpp	vj	18.9	5.0	5.4	0.93							9.0				1.66	0.30	0.58	34				dc
LV	Neoc.	1	*orb.*	92262	pmpp	vj	22.2	5.4	5.7	0.94	4.5	5.1	0.88	1.13	1.21	22.0	8.0	12.5	0.57	0.36	1.39	0.36	0.69	39		5.0	0.23	dc
LV	Neoc.	1	*orb.*	92263	pp	a	29.3	10.9	12.1	0.90							10.5				0.87	0.57	1.04	60				c
UV	Verr.	1	*vaub.*	92264	pmpp	sa	31.2	9.3	9.7	0.96							14.0				1.44	0.35	0.67	38				
UV	Verr.	1	*vaub.*	92265	pmpp	j	21.4	5.4	5.6	0.96							9.5				1.69	0.30	0.58	33				dc
UV	Verr.	1	*orb.*	92266	pmpp	j	24.2	7.8	7.9	0.99							9.0				1.14	0.44	0.83	47				c
UV	Verr.	1	*suborb.*	92267	pp	j/sa	22.5																					c
UV	Verr.	1	*orb.*	92268	pmpp	vj	17.5	4.6	4.5	1.02							6.5				1.45	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	92269	pmpp	j	21.5	6.5	6.7	0.97							10.5				1.56	0.32	0.62	36				dc
UV	Verr.	1	sp.	92270	f	j/sa	29.1																		18			
UV	Verr.	1	*vaub.*	92271	pp	j/sa	23.2	7.7	8.7	0.89							14.0				1.61	0.31	0.60	35				dc
UV	Verr.	1	*suborb.*	92272	pmpp	sa	31.4	8.8	9.2	0.95							17.0				1.84	0.27	0.53	30				c
UV	Verr.	1	*vaub.*	92273	pmpp	j	22.3	6.7	7.0	0.95							11.5				1.63	0.31	0.59	34				dc
UV	Verr.	1	*vaub.*	92274	pmpp	sa	37.2	8.3	8.9	0.93	8.2	8.3	0.98	1.07	1.02	37.0	13.0	29.0	0.78	0.35	1.46	0.34	0.66	38	18	15.5	0.42	dc
UV	Verr.	1	*touc.*	92275	pp	sa	24.0	8.7	9.9	0.87							14.0				1.41	0.35	0.68	39				d
UV	Verr.	1	*vaub.*	92276	pp	j	24.8	7.3	8.2	0.89							12.0				1.46	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	92277	pp	j	19.7	6.3	7.1	0.89							10.5				1.49	0.34	0.65	37				dc
UV	Verr.	1	*orb.*	92278	pmpp	sa	31.0	9.0	9.5	0.95						28.5	11.0				1.15	0.43	0.82	47				c
UV	Verr.	1	*vaub.*	92279	pp	j	19.8	8.5	8.8	0.96							15.0				1.70	0.29	0.57	33				dc
LV	Inos.	1	*touc.*	92615	c	j	42.5	7.5	8.7	0.86	6.7	7.5	0.89	1.16	1.12	38.0	13.0	31.0	0.82	0.34	1.50	0.33	0.65	37		15.5	0.41	c
LV	Inos.	1	*touc.*	92616	pmpp	sa	33.1	9.6	11.2	0.86							14.0				1.25	0.40	0.76	44				dc
LV	Inos.	1	*orb.*	92617	c	j	36.4	7.1	7.4	0.96	6.5	6.6	0.99	1.13	1.09	30.0	9.0	20.5	0.68	0.30	1.22	0.41	0.78	45	18	12.0	0.40	dc
LV	Inos.	1	*suborb.*	92618	c	j	31.8	5.2	5.6	0.93	4.5	4.9	0.92	1.16	1.17	28.0	12.0	20.0	0.71	0.43	2.13	0.24	0.46	26		8.0	0.29	c
LV	Inos.	1	sp.	92619	c	vj	19.3																0.00					
LV	Inos.	1	*vaub.*	92620	c-pa	vj	28.1	4.8	5.1	0.93	3.9	4.2	0.92	1.21	1.22	23.5	9.0	17.0	0.72	0.38	1.76	0.28	0.55	32		5.0	0.21	dc
LV	Inos.	1	*vaub.*	92621	pmpp	vj	23.1	4.5	4.9	0.91	3.9	4.3	0.90	1.14	1.16	21.0	9.0	14.5	0.69	0.43	1.83	0.27	0.53	31		5.0	0.24	dc
LV	Inos.	1	*suborb.*	92622	c	vj	26.4	3.7	3.9	0.95	2.9	3.1	0.95	1.26	1.26	23.0	8.0	17.0	0.74	0.35	2.05	0.24	0.48	27		4.0	0.17	c
LV	Inos.	1	*touc.*	92623	pp	a	24.9	10.3	11.9	0.87							15.0				1.26	0.40	0.75	43				dc
LV	Inos.	1	sp.	92624	section	j	34.6																0.00		18			
LV	Pert.	1	*touc.*	92680	c	sa	48.9	9.1	10.8	0.84	8.1	8.8	0.92	1.23	1.12	44.0	13.0	33.5	0.76	0.30	1.20	0.42	0.79	45		17.0	0.39	dc
LV	Pert.	1	*touc.*	92681	pmpp	a	41.2	10.4	13.4	0.78							17.0				1.27	0.39	0.75	43				d
LV	Pert.	1	*vaub.*	92682	c	j	43.7	7.2	7.7	0.93	6.8	7.3	0.92	1.06	1.06	33.0	11.0	24.0	0.73	0.33	1.42	0.35	0.68	39		10.0	0.30	dc
LV	Pert.	1	*suborb.*	92683	c-pa	j/sa	41.9	7.3	8.3	0.88	6.5	7.3	0.89	1.14	1.13	39.0	19.0	26.0	0.67	0.49	2.28	0.22	0.43	25		13.0	0.33	c
LV	Pert.	1	*touc.*	92684	c	vj	31.9	4.8	5.1	0.94	4.0	4.3	0.93	1.18	1.20	25.0	7.5	18.0	0.72	0.30	1.48	0.34	0.65	37		4.5	0.18	dc
LV	Pert.	1	*vaub.*	92685	c-pa	sa/a	49.8	9.4	10.4	0.91	9.4	9.9	0.95	1.05	1.00	41.0	15.5	28.5	0.70	0.38	1.50	0.33	0.64	37		20.0	0.49	dc
LV	Pert.	1	*vaub.*	92686	c-pa	sa	43.8	9.3	10.3	0.91	6.7	7.3	0.92	1.41	1.39	38.0	16.5	31.0	0.82	0.43	1.60	0.31	0.61	35		13.0	0.34	c
LV	Pert.	1	*touc.*	92687	c-pa	j	41.2	7.3	8.2	0.89	6.9	7.7	0.89	1.05	1.06	34.0	12.5	22.0	0.65	0.37	1.53	0.33	0.63	36		11.0	0.32	d
LV	Pert.	1	*suborb.*	92688	c-pa	j	38.6	7.1	8.0	0.88	7.4	8.0	0.93	1.00	0.95	33.0	16.5	14.0	0.42	0.50	2.07	0.24	0.48	27		13.0	0.39	c
LV	Pert.	1	*orb.*	92689	c-pa	vj	23.4	4.4	4.5	0.99	3.5	3.8	0.92	1.18	1.26	20.0	7.0	15.0	0.75	0.35	1.56	0.32	0.62	36		5.0	0.25	c
LV	Inos.	1	*vaub.*	92694	pmpp	vj	20.6	4.5	4.7	0.97							8.0				1.72	0.29	0.57	32				dc
LV	Inos.	1	*touc.*	92695	pmpp	vj	19.6	4.4	4.7	0.93							7.5				1.59	0.31	0.61	35				dc
UV	Verr.	1	*orb.*	92699	c	sa	50.0	9.8	10.6	0.92	8.8	9.2	0.96	1.15	1.11	41.0	12.5	34.0	0.83	0.30	1.18	0.42	0.80	46		16.0	0.39	c
UV	Verr.	1	*orb.*	92700	pmpp	sa	35.7	9.3	10.4	0.89	9.3	10.1	0.92	1.04	1.00	34.0	12.5	24.0	0.71	0.37	1.20	0.42	0.79	45		12.0	0.35	c

15	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldlat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*touc.?*	92709	c-pa	sa	45.4	8.7	9.7	0.90	8.7	9.4	0.93	1.03	1.01	39.0	14.5	31.5	0.81	0.37	1.50	0.33	0.64	37		14.0	0.36	dc
UV	Verr.	1	*vaub.*	92710	pp	a	31.4	11.2	12.2	0.92							18.0				1.48	0.34	0.65	37				c
UV	Verr.	1	*orb.*	92711	c	j	37.7	7.8	8.2	0.95	6.7	7.0	0.96	1.17	1.16	33.5	9.0	25.0	0.75	0.27	1.09	0.46	0.86	49		14.0	0.42	c
UV	Verr.	1	sp.	92712	pp	a	27.9																					
UV	Verr.	1	*vaub.*	92713	pp	j/sa	26.1	8.3	9.1	0.91							13.5				1.49	0.34	0.65	37				dc
LV	Neoc.	1	*touc.*	92778	pmpp	j	26.8	6.7	8.4	0.81							11.5				1.38	0.36	0.70	40				dc
LV	Neoc.	1	*vaub.*	92779	c	vj	23.7	3.6	3.7	0.98	2.5	2.7	0.91	1.33	1.44	21.0	6.0	15.0	0.71	0.29	1.64	0.30	0.59	34		3.0	0.14	dc
UV	Verr.	1	*orb.*	92791	c	sa	54.8	10.5	11.5	0.91	9.0	10.0	0.90	1.15	1.17	42.5	12.0	34.0	0.80	0.28	1.04	0.48	0.89	51		19.0	0.45	c
UV	Verr.	1	*vaub.*	92792	pmpp	mj	19.6	3.5	3.8	0.93							6.5				1.73	0.29	0.56	32				dc
UV	Verr.	1	*orb.*	92793	pp	sa		8.4	9.4	0.89							10.5				1.11	0.45	0.84	48				c
UV	Verr.	1	*orb.*	92794	pp	j		7.4	7.8	0.95							8.5				1.10	0.46	0.86	49				c
UV	Verr.	1	*orb.*	92795	pp	sa		8.4	9.4	0.89							9.5				1.01	0.50	0.92	53				c
UV	Verr.	1	*vaub.*	92796	pp	sa		9.5	10.3	0.92							15.5				1.50	0.33	0.64	37				dc
UV	Verr.	1	*touc.*	92797	pp	j		7.4	8.9	0.84							13.0				1.47	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	92798	pmpp	j	35.0	7.4	7.6	0.97	6.8	7.2	0.95	1.06	1.09	32.5	11.0	24.5	0.75	0.34	1.45	0.35	0.66	38		11.0	0.34	dc
UV	Verr.	1	*orb.*	92799	pmpp	a	30.4	10.2	11.4	0.90							12.5				1.09	0.46	0.86	49				c
UV	Verr.	1	*vaub.*	92800	pp	sa		8.4	9.4	0.89							15.0				1.59	0.31	0.61	35				dc
LV	Inos.	1	*vaub.*	92818	c	sa	50.8	8.8	9.7	0.91	7.8	8.1	0.95	1.19	1.13	44.5	15.5	31.5	0.71	0.35	1.60	0.31	0.61	35	18	15.0	0.34	c
LV	Inos.	1	*vaub.*	92819	pmpp	vj	22.3	4.5	4.7	0.96	4.1	4.5	0.92	1.05	1.09	20.0	8.5	12.0	0.60	0.43	1.80	0.28	0.54	31		5.0	0.25	dc
UV	Verr.	1	*orb.*	92870	pp	j	20.0	8.0	8.9	0.90							12.0				1.35	0.37	0.71	41				dc
UV	Verr.	1	*orb.*	92871	pp	j/sa	18.9	7.7	8.6	0.89							9.5				1.11	0.45	0.85	48				dc
UV	Verr.	1	*suborb.*	92872	pmpp	j	29.5	6.6	6.7	0.98							14.0				2.09	0.24	0.47	27				c
UV	Verr.	1	*vaub.*	92873	pp	sa	23.1	8.9	10.0	0.89							14.5				1.45	0.34	0.66	38				d
UV	Verr.	1	sp.	92874	pmpp	sa	26.7																0.00	35				
UV	Verr.	1	*vaub.*	92875	pmpp	j	40.1	7.6	8.2	0.92	7.3	7.6	0.95	1.08	1.04	38.0	13.0	27.0	0.71	0.34	1.58	0.32	0.61	35		14.0	0.37	dc
UV	Verr.	1	*touc.*	92876	c	sa	52.9	8.8	9.9	0.89	7.8	8.3	0.94	1.19	1.13	45.0	13.5	29.0	0.64	0.30	1.36	0.37	0.70	40		16.3	0.36	dc
UV	Verr.	1	*vaub.*	92877	c-pa	j	41.4	6.9	7.4	0.92	7.0	7.3	0.96	1.02	0.97	37.0	12.5			0.34	1.68	0.30	0.58	33		15.0	0.41	dc
UV	Verr.	1	*orb.*	92878	c	sa	43.0	9.1	9.6	0.94	7.6	8.0	0.96	1.21	1.19	38.5	11.5	28.0	0.73	0.30	1.19	0.42	0.79	45		15.0	0.39	dc
UV	Verr.	1	*orb.*	92879	pp	sa	22.1	10.0	11.6	0.86							11.0				0.95	0.53	0.97	56				c
UV	Verr.	1	*touc.*	92880	pmpp	j	26.7	5.9	6.7	0.87	5.4	6.1	0.89	1.11	1.09	25.5	11.0	17.5	0.69	0.43	1.63	0.31	0.59	34		8.5	0.33	dc
UV	Verr.	1	*touc.*	92881	c	vj	22.0	4.3	4.6	0.92	3.5	4.0	0.90	1.17	1.21	20.0	7.5	15.0	0.75	0.38	1.62	0.31	0.60	34		7.5	0.38	d
UV	Verr.	1	*orb.*	92882	pp	j	18.6	7.0	7.8	0.89							10.5				1.35	0.37	0.71	41				c
UV	Verr.	1	*vaub.*	92883	pp	j	17.9	5.7	6.3	0.91							9.5				1.51	0.33	0.64	37				dc
LV	Neoc.	1	*touc.*	92944	pmpp	j	24.5	5.6	6.2	0.90	5.3	6.0	0.88	1.04	1.06	23.0	9.5	17.0	0.74	0.41	1.53	0.33	0.63	36		7.0	0.30	d
LV	Neoc.	1	*orb.*	92945	pmpp	j	20.3	7.4	8.4	0.89							10.5				1.26	0.40	0.76	43				c
LV	Neoc.	1	*touc.*	92946	pmpp	j	19.4	6.5	7.3	0.88							12.5				1.71	0.29	0.57	33				d
UV	Pere.	1	*vaub.*	92969	c-pa	j	41.1	8.5	9.2	0.92	7.7	7.7	1.00	1.20	1.10	36.0	14.0	30.0	0.83	0.39	1.52	0.33	0.64	36		12.0	0.33	dc
UV	Verr.	1	sp.	92981	pmpp	sa	26.9																					
LV	Neoc.	1	*touc.*	92992	pmpp	j	36.7	8.5	9.3	0.92	8.4	8.8	0.95	1.05	1.01	33.0	11.5	23.0	0.70	0.35	1.24	0.40	0.76	44		12.0	0.36	d
LV	Neoc.	1	*touc.*	92993	c	vj	19.9	3.6	3.8	0.94	2.8	3.2	0.90	1.20	1.26	18.5	6.8	14.0	0.76	0.36	1.79	0.28	0.54	31		3.5	0.19	d
UV	Verr.	1	*vaub.*	92994	pmpp	sa	30.6	9.9	11.0	0.90							15.0				1.37	0.37	0.70	40				dc
UV	Furc.	1	sp.	93000	pp	sa	18.8																					
UV	Furc.	1	*vaub.*	93001	pmpp	j	24.0	7.6	8.3	0.91							13.0				1.57	0.32	0.62	35				c
LV	Neoc.	1	*touc.*	93021	pmpp	vj	18.8																					d
UV	Verr.	1	*vaub.*	93112	pmpp	a	54.2	11.8	13.1	0.90	10.2	11.2	0.91	1.17	1.15	51.0	17.5	39.0	0.76	0.34	1.33	0.37	0.72	41	18	21.0	0.41	dc
UV	Verr.	1	*vaub.*	93113	pmpp	j	28.2	7.8	8.3	0.94							13.0				1.58	0.32	0.61	35				dc
UV	Verr.	1	*vaub.*	93114	pmpp	j	30.3	7.2	7.4	0.97	6.3	6.7	0.94	1.10	1.13	28.0	12.0	17.5	0.63	0.43	1.63	0.31	0.60	34		9.5	0.34	dc
UV	Verr.	1	*orb.*	93115	pmpp	vj	17.6	4.8	4.7	1.03							7.0				1.50	0.33	0.65	37				dc
LV	Neoc.	1	*touc.*	93139	pp	sa	25.9	8.5	9.7	0.87							12.0				1.23	0.41	0.77	44				d
LV	Neoc.	1	*touc.*	93140	pp	j	29.2	7.8	8.5	0.91							11.0				1.29	0.39	0.74	42				d
LV	Neoc.	1	sp.	93141	f																				18			
LV	Neoc.	1	sp.	93142	f																							
LV	Neoc.	1	sp.	93143	f																							
LV	Neoc.	1	sp.	93144	f																							
UV	Verr.	1	*vaub.*	93227	pp	j		4.7	4.8	0.98							8.3				1.72	0.29	0.57	32				dc
UV	Verr.	1	*vaub.*	93229	pp	j		5.3	5.5	0.96							9.0				1.62	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	93248	c	sa	45.8	8.7	9.5	0.92	7.3	7.5	0.97	1.27	1.20	41.0	14.0	31.0	0.76	0.34	1.47	0.34	0.65	37		13.0	0.32	d
UV	Verr.	1	*vaub.*	93249	c	sa	53.4	9.5	10.0	0.95	8.8	9.0	0.97	1.11	1.07	43.5	14.5	28.0	0.64	0.33	1.45	0.34	0.66	38		19.0	0.44	dc
UV	Verr.	1	*suborb.*	93250	pmpp	j	31.1	7.6	7.7	0.98	6.6	7.1	0.93	1.09	1.15	29.0	14.0	19.0	0.66	0.48	1.82	0.28	0.54	31		9.0	0.31	c
UV	Verr.	1	*suborb.*	93251	pmpp	mj	18.2	4.3	4.2	1.02							9.0				2.16	0.23	0.46	26				c
UV	Verr.	1	*vaub.*	93252	pmpp	mj	16.7	3.2	3.0	1.05	2.5	2.7	0.92	1.11	1.26	16.0	6.0	9.0	0.56	0.38	1.99	0.25	0.49	28				dc
UV	Verr.	1	*touc.*	93270	c	sa	51.0	8.3	9.7	0.86	8.0	8.6	0.93	1.12	1.04	43.0	12.5	36.0	0.84	0.29	1.30	0.39	0.74	42		17.0	0.40	d
UV	Verr.	1	*orb.*	93271	c	sa	54.2	9.3	10.3	0.90	8.3	8.7	0.96	1.18	1.11	46.5	11.0	40.0	0.86	0.24	1.07	0.47	0.87	50		17.0	0.37	
UV	Verr.	1	*orb.*	93272	c	sa	50.2	9.2	9.4	0.98	9.5	9.5	1.00	1.00	0.97	39.0	10.3	24.0	0.62	0.26	1.09	0.46	0.86	49		15.0	0.38	c
UV	Verr.	1	*vaub.*	93273	c	sa	51.9	8.3	9.0	0.92	7.7	7.8	0.99	1.15	1.08	42.5	12.0	33.5	0.79	0.28	1.33	0.38	0.72	41		14.0	0.33	dc
UV	Verr.	1	*vaub.*	93274	c-pa	sa	44.0	9.3	9.9	0.94	8.0	8.8	0.91	1.13	1.15	40.0	14.0	26.5	0.66	0.35	1.42	0.35	0.68	39		17.0	0.43	dc
UV	Verr.	1	*touc.*	93275	c-pa	sa	46.4	8.3	9.2	0.90	7.8	8.3	0.94	1.11	1.06	40.0	12.0	32.0	0.80	0.30	1.30	0.38	0.73	42		17.0	0.43	d
UV	Verr.	1	*orb.*	93276	c	j	30.1	4.7	5.1	0.93	4.3	4.7	0.91	1.09	1.11	24.0	7.5	17.0	0.71	0.31	1.47	0.34	0.65	37		6.0	0.25	dc
UV	Verr.	1	*vaub.*	93277	pmpp	j	29.1	5.6	6.2	0.89	5.3	5.7	0.94	1.10	1.05	27.0	11.0	19.0	0.70	0.41	1.76	0.28	0.55	32		9.0	0.33	dc
UV	Verr.	1	*vaub.*	93278	pmpp	mj	19.0	4.0	4.1	0.98	3.5	3.7	0.95	1.11	1.15	18.5	8.0	12.5	0.68	0.43	1.96	0.26	0.50	29		3.5	0.19	d
UV	Verr.	1	*vaub.*	93279	pmpp	mj	12.5	3.0	3.0	0.99							6.0				1.97	0.25	0.50	28				d
UV	Verr.	1	*orb.*	93280	pmpp	vj	16.0	4.9	5.2	0.95							7.5				1.45	0.35	0.67	38				dc
UV	Verr.	1	*orb.*	93281	pp	sa		8.8	9.6	0.92							9.5				0.99	0.50	0.93	54				c
UV	Verr.	1	*suborb.*	93282	pp	sa		8.6	9.4	0.91							18.0				1.91	0.26	0.51	29				c
UV	Verr.	1	*orb.*	93396	pmpp	sa	39.5	9.7	10.3	0.95						39.0	12.0				1.17	0.43	0.81	46	18	18.0	0.46	c
UV	Verr.	1	*vaub.*	93397	c	j	39.8	6.8	7.3	0.93	6.6	7.0	0.94	1.04	1.03	35.0	12.0	27.0	0.77	0.34	1.64	0.30	0.59	34		12.5	0.36	dc
UV	Verr.	1	*orb.*	93398	pmpp	j	29.5	8.2	8.4	0.98							11.5				1.37	0.37	0.70	40				dc
UV	Verr.	1	sp.	93399	pp	sa/a	26.3																					
UV	Verr.	1	sp.	93400	pmpp	j	24.2																					
UV	Verr.	1	sp.	93401	pmpp	sa	27.4																					

16	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/Ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*vaub.*	93402	pmpp	j	22.6	6.6	7.4	0.90							11.0				1.49	0.33	0.65	37				dc
UV	Verr.	1	*vaub.*	93403	pmpp	j	19.7	5.2	5.6	0.92						19.0	9.5				1.69	0.30	0.58	33				dc
UV	Verr.	1	*orb.*	93404	pmpp	j	20.8	6.5	7.2	0.91							10.5				1.47	0.34	0.66	38				dc
UV	Verr.	1	*vaub.*	93405	c	sa	51.5	9.5	10.3	0.92	8.6	9.0	0.95	1.14	1.10	46.5	15.5	34.0	0.73	0.33	1.50	0.33	0.64	37		19.5	0.42	c
UV	Verr.	1	sp.	93406	c-ap	sa	51.7																					
UV	Verr.	1	sp.	93407	pmpp	sa	37.4																					
UV	Verr.	1	*vaub.*	93408	pmpp	j		7.7	8.4	0.92							13.5				1.60	0.31	0.61	35				dc
UV	Verr.	1	sp.	93409	pmpp	a																						
UV	Verr.	1	sp.	93410	pmpp	j																						
UV	Verr.	1	*vaub.*	93411	pmpp	vj/j		5.3	5.9	0.90							10.0				1.70	0.29	0.57	33				dc
UV	Verr.	1	*suborb.*	93412	pmpp	sa	46.0	7.7	8.6	0.90							16.0				1.86	0.27	0.52	30				dc
UV	Verr.	1	*vaub.*	93413	pmpp	sa	28.4	9.9	10.1	0.98						42.0	16.0				1.58	0.32	0.61	35	17	17.5	0.42	dc
LV	Inos.	1	*vaub.*	93438	pmpp	j	28.7	5.7	5.8	0.98	5.1	5.3	0.96	1.10	1.12	25.5	11.0	18.0	0.71	0.43	1.89	0.26	0.52	30		8.0	0.31	d
LV	Inos.	1	sp.	93439	pmpp	sa	28.0																					
LV	Inos.	1	*vaub.*	93440	pp	vj	15.4	4.2	4.6	0.92							8.0				1.75	0.29	0.56	32				dc
UV	Furc.	1	sp.	93574	c	sa	48.0																					
UV	Verr.	1	*orb.*	93585	c-pa	sa	41.6	8.6	9.8	0.87	7.7	7.9	0.98	1.25	1.11	38.5	10.0	31.0	0.81	0.26	1.02	0.49	0.91	52		15.0	0.39	c
UV	Verr.	1	*vaub.*	93586	c	a	55.6	10.3	11.8	0.88	9.0	9.5	0.94	1.24	1.16	47.0	15.5	34.0	0.72	0.33	1.32	0.38	0.72	42		19.0	0.40	dc
UV	Verr.	1	*vaub.*	93587	c	j	41.0	7.8	8.0	0.97	6.5	6.5	1.00	1.23	1.20	35.5	13.0	27.5	0.77	0.37	1.63	0.31	0.60	34		12.0	0.34	dc
UV	Verr.	1	*orb.*	93588	pmpp	j	25.7	6.4	6.9	0.93	5.9	6.4	0.92	1.07	1.09	23.5	8.0	16.0	0.68	0.34	1.16	0.43	0.81	47		9.0	0.38	c
UV	Verr.	1	*vaub.*	93589	pp	a	27.7	10.1	11.4	0.89							15.5				1.36	0.37	0.70	40				dc
UV	Verr.	1	*vaub.*	93590	pp	sa	26.7	9.0	9.4	0.95							14.0				1.49	0.34	0.65	37				c
UV	Verr.	1	*orb.*	93591	pmpp	j	28.0	7.8	8.5	0.92							10.0				1.18	0.43	0.80	46				c
UV	Verr.	1	*touc.*	93592	pmpp	j	26.8	7.1	7.9	0.89	6.5	7.3	0.89	1.09	1.10	26.0	12.0	18.0	0.69	0.46	1.51	0.33	0.64	37		11.0	0.42	dc
UV	Verr.	1	*orb.*	93593	pp	j	22.4	7.8	8.5	0.91							8.5				1.00	0.50	0.93	53				c
UV	Verr.	1	*orb.*	93594	pp	sa	22.3	9.0	10.0	0.91							11.5				1.15	0.43	0.82	47				c
UV	Pere.	1	*vaub.*	93603	pmpp	sa	24.3	8.6	9.3	0.92							13.5				1.45	0.35	0.67	38				dc
UV	Verr.	1	*suborb.*	93630	c-pa	sa	46.4	7.3	8.3	0.89	7.2	7.8	0.92	1.06	1.02	42.8	18.0	32.0	0.75	0.42	2.18	0.23	0.45	26		15.0	0.35	c
LV	Neoc.	1	*suborb.*	93694	c	sa	49.1	8.1	9.1	0.90	8.2	8.4	0.98	1.08	0.99	40.0	17.5	27.0	0.68	0.44	1.93	0.26	0.51	29		14.5	0.36	c
LV	Neoc.	1	*vaub.*	93695	pmpp	a	44.4	9.8	11.3	0.87	9.4	10.1	0.93	1.12	1.04	40.0	16.0	29.0	0.73	0.40	1.42	0.35	0.68	39	18	15.0	0.38	dc
LV	Neoc.	1	*vaub.*	93696	pmpp	j	40.2	8.2	9.3	0.89	6.9	7.6	0.90	1.21	1.20	36.0	13.0	25.5	0.71	0.36	1.41	0.36	0.68	39		12.0	0.33	dc
LV	Neoc.	1	*orb.*	93697	c	j	35.8	6.2	6.9	0.90	6.0	6.5	0.92	1.06	1.04	23.0	9.5	16.0	0.70	0.41	1.37	0.36	0.70	40		8.5	0.37	dc
LV	Neoc.	1	*suborb.*	93698	c	vj	27.9	3.9	4.5	0.88	3.6	3.9	0.93	1.15	1.09	24.5	9.5	18.0	0.73	0.39	2.13	0.23	0.46	26		6.0	0.24	dc
LV	Neoc.	1	*vaub.*	93699	pmpp	j	27.3	8.2	9.2	0.90	6.9	7.7	0.90	1.20	1.19	36.5	13.5	27.0	0.74	0.37	1.47	0.34	0.66	38		11.0	0.30	dc
LV	Neoc.	1	*orb.*	93700	pmpp	vj	20.1	4.9	5.4	0.92							8.0				1.48	0.34	0.65	37				dc
LV	Neoc.	1	*touc.*	93701	pp	j	20.5	7.3	8.3	0.87							14.0				1.69	0.30	0.58	33				d
LV	Neoc.	1	*suborb.*	93702	pmpp	vj	20.7	3.9	4.4	0.90	3.5	3.9	0.89	1.13	1.14	19.5	9.0	13.0	0.67	0.46	2.05	0.24	0.48	27		4.0	0.21	dc
LV	Neoc.	1	*touc.*	93703	pp	sa	19.8	6.9	8.0	0.86							10.5				1.31	0.38	0.73	42				dc
LV	Neoc.	1	*touc.*	93704	pp	j	17.3	5.5	6.1	0.89							9.0				1.48	0.34	0.65	37				d
LV	Neoc.	1	sp.	93705	f	sa	27.3																					
LV	Inos.	1	*touc.*	93706	c-pa	sa	44.4	8.0	9.2	0.87	7.5	7.9	0.95	1.17	1.07	37.0	12.5	26.5	0.72	0.34	1.36	0.37	0.70	40		11.5	0.31	dc
LV	Inos.	1	*orb.*	93707	pmpp	j	29.4	6.6	7.3	0.91	6.1	6.5	0.93	1.12	1.09	26.0	10.0	17.0	0.65	0.38	1.37	0.37	0.70	40		7.5	0.29	dc
UV	Verr.	1	*touc.*	93727	c	sa	45.7	8.7	9.9	0.88	7.7	7.9	0.98	1.26	1.12	39.0	13.5	27.0	0.69	0.35	1.37	0.37	0.70	40		13.0	0.33	c
UV	Verr.	1	*suborb.*	93728	c-pa	sa	41.2	8.2	8.9	0.93	7.8	8.0	0.98	1.11	1.06	39.0	16.5	27.0	0.69	0.42	1.86	0.27	0.53	30		12.5	0.32	c
UV	Verr.	1	*vaub.*	93729	pmpp	j	29.8	6.7	7.5	0.90	6.1	6.8	0.90	1.11	1.10	28.0	12.0	19.5	0.70	0.43	1.61	0.31	0.60	35		9.5	0.34	dc
UV	Verr.	1	sp.	93730	pp	sa	18.3																					
LV	Inos.	1	sp.	93745	pmpp	sa	40.6																					
LV	Inos.	1	*vaub.*	93746	pmpp	sa	31.7																					dc
UV	Verr.	1	*vaub.*	93759	pmpp	a	43.4	9.5	10.4	0.91	9.4	9.7	0.96	1.07	1.01	40.0	15.0	29.0	0.73	0.38	1.45	0.35	0.67	38		17.0	0.43	dc
UV	Verr.	1	*vaub.*	93760	pmpp	a	46.2	10.0	11.3	0.89	8.8	8.8	1.00	1.28	1.13	40.5	16.5	29.0	0.72	0.41	1.46	0.34	0.66	38		17.0	0.42	dc
UV	Verr.	1	*orb.*	93761	pmpp	j	31.8	6.9	7.7	0.89	6.5	6.9	0.94	1.12	1.07	29.0	10.0	19.0	0.66	0.34	1.30	0.39	0.74	42		10.0	0.34	c
UV	Verr.	1	*suborb.*	93762	pmpp	j	32.5	6.5	7.1	0.92	6.2	6.5	0.94	1.09	1.06	31.0	15.0	20.0	0.65	0.48	2.12	0.24	0.46	27		10.0	0.32	c
UV	Verr.	1	*suborb.*	93763	c-pa	j	32.9	6.4	6.6	0.96	6.1	6.6	0.92	1.00	1.05	29.0	14.5	18.0	0.62	0.50	2.19	0.23	0.45	26		10.0	0.34	c
UV	Verr.	1	*vaub.*	93764	c	j	32.9	6.0	6.2	0.96	4.6	4.7	0.98	1.33	1.31	27.5	10.0	19.5	0.71	0.36	1.61	0.31	0.60	35		7.0	0.25	dc
UV	Verr.	1	*orb.*	93765	c	j	38.9	7.3	7.8	0.93	6.0	6.0	0.99	1.31	1.22	30.0	9.0	20.5	0.68	0.30	1.15	0.44	0.82	47		10.0	0.33	c
UV	Verr.	1	*orb.*	93766	pmpp	j	26.2	7.1	7.5	0.95							10.0				1.33	0.38	0.72	41				c
UV	Verr.	1	*vaub.*	93767	pmpp	j	30.7	7.6	7.8	0.97	6.8	7.1	0.95	1.11	1.12	30.0	13.0	21.0	0.70	0.43	1.66	0.30	0.59	34		10.0	0.33	dc
UV	Verr.	1	*orb.*	93768	pmpp	j	28.8	7.8	8.0	0.97							8.0				1.00	0.50	0.93	53	18			c
UV	Verr.	1	*vaub.*	93769	c-pa	vj	28.7	5.8	5.9	0.98	5.1	5.5	0.94	1.08	1.13	24.5	10.0	11.0	0.45	0.41	1.69	0.30	0.57	33		9.0	0.37	dc
UV	Verr.	1	*vaub.*	93770	pmpp	j	22.6	5.9	5.9	0.99							9.5				1.60	0.31	0.61	35				dc
UV	Verr.	1	*orb.*	93771	pmpp	vj	21.2	4.7	5.0	0.92							7.5				1.49	0.34	0.65	37				dc
UV	Verr.	1	*orb.*	93772	pmpp	j	24.3	7.6	7.9	0.96							10.0				1.27	0.39	0.75	43				c
UV	Verr.	1	*vaub.*	93773	pp	sa	18.2	8.5	9.1	0.93							13.0				1.42	0.35	0.68	39				dc
UV	Verr.	1	*vaub.*	93774	pp	j	19,,3	6.7	6.9	0.97							11.0				1.60	0.31	0.60	35				dc
UV	Verr.	1	*suborb.*	93775	pmpp	vj	17.5	5.0	5.2	0.97							10.5				2.03	0.25	0.48	28				c
UV	Verr.	1	sp.	93776	pp	j	14.8																					
UV	Verr.	1	sp.	93777	f	sa	30.7																		18			
UV	Verr.	1	sp.	93778	f	j	29.2																		18			
UV	Verr.	1	*vaub.*	93865	pmpp	j	21.1	6.4	6.6	0.96							11.5				1.73	0.29	0.56	32				d
LV	Inos.	1	*vaub.*	95738	pmpp	a	43.8	11.4	12.7	0.90	11.0	11.3	0.97	1.13	1.04	39.0	16.5	28.0	0.72	0.42	1.30	0.39	0.74	42		19.0	0.49	dc
UV	Verr.	1	*suborb.*	95739	c	j/sa	49.9	7.9	8.3	0.96	7.6	7.7	0.98	1.07	1.05	41.5	17.0	29.5	0.71	0.41	2.06	0.24	0.48	27		15.0	0.36	c
UV	Verr.	1	*suborb.*	95740	pmpp	j/sa	31.3	7.3	7.8	0.94	7.6	7.9	0.96	0.98	0.96	28.0	16.5	16.0	0.57	0.59	2.13	0.23	0.46	26		8.5	0.30	c
UV	Verr.	1	*suborb.*	95741	c	j	40.6	6.3	6.6	0.96	6.4	6.7	0.95	0.97	0.99	32.0	14.0	21.0	0.66	0.44	2.13	0.23	0.46	26		11.0	0.34	c
UV	Verr.	1	*suborb.*	95742	c	sa	56.0	10.1	10.7	0.94	8.1	8.5	0.94	1.25	1.25	49.0	18.3	35.0	0.71	0.37	1.70	0.29	0.57	33		18.0	0.37	c
UV	Verr.	1	*vaub.*	95743	c-pa	j	40.1	8.2	8.6	0.95	7.7	7.9	0.98	1.10	1.07	35.5	14.0	22.0	0.62	0.39	1.63	0.31	0.60	34		15.0	0.42	c
UV	Verr.	1	*vaub.*	95744	pmpp	vj	20.7	5.2	5.2	1.01							9.0				1.74	0.29	0.56	32				dc
UV	Verr.	1	*vaub.*	95745	c	mj	21.4	3.3	3.3	1.01	2.4	2.7	0.86	1.20	1.42	18.0	6.5	12.0	0.67	0.36	1.97	0.25	0.50	28		3.0	0.17	dc
UV	Verr.	1	*vaub.*	95746	pp	sa	25.2	8.8	9.6	0.92							13.0				1.36	0.37	0.71	40				dc
UV	Verr.	1	*orb.*	95831	pmpp	a	33.6	10.4	11.2	0.93							13.0				1.16	0.43	0.82	47				c
UV	Verr.	1	*vaub.*	95832	c	vj	21.7	3.9	3.9	0.99	2.5	3.1	0.82	1.26	1.53	19.0	6.5	12.0	0.63	0.34	1.68	0.30	0.58	33		4.0	0.21	dc

17	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldlv	ldlat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*vaub.*	95833	c-pa	sa	40.6	9.5	9.8	0.97	8.4	9.0	0.93	1.09	1.14	32.0	15.0	24.5	0.77	0.47	1.53	0.33	0.63	36		12.0	0.38	c
UV	Verr.	1	sp.	95834	c-pa	sa	40.5																					
UV	Verr.	1	sp.	95835	pmpp	sa/a	33.7																					
UV	Verr.	1	*vaub.*	95836	pmpp	j	26.3	6.4	6.7	0.96							11.0				1.64	0.31	0.59	34				c
UV	Verr.	1	*orb.*	95837	pmpp	sa	28.9																					c
UV	Verr.	1	*vaub.*	95838	c	j	28.6	5.7	5.8	1.00	4.4	4.8	0.92	1.19	1.29	26.0	9.5	17.0	0.65	0.37	1.65	0.30	0.59	34		7.0	0.27	dc
UV	Verr.	1	*vaub.*	95839	pmpp	j	20.3	6.1	6.5	0.93							10.5				1.61	0.31	0.60	35				c
UV	Verr.	1	*vaub.*	95840	pmpp	vj	16.2	4.4	4.4	1.00							7.3				1.66	0.30	0.58	33				dc
UV	Verr.	1	*orb.*	95841	pmpp	mj	14.2	3.9	4.0	0.98							5.5				1.38	0.36	0.69	40				dc
UV	Verr.	1	*vaub.*	95883	c-pa	sa	47.2	8.8	9.8	0.90	8.2	8.5	0.96	1.15	1.08	43.5	14.0	30.0	0.69	0.32	1.43	0.35	0.67	38		19.0	0.44	dc
UV	Verr.	1	*vaub.*	95884	pmpp	a	34.1	9.8	10.7	0.91	9.4	9.7	0.98	1.11	1.04	32.0	14.0	19.0	0.59	0.44	1.30	0.38	0.73	42		10.0	0.31	dc
UV	Verr.	1	sp.	95885	pp	sa	24.6																					
UV	Verr.	1	*vaub.*	95886	pmpp	vj/j	22.3	5.8	5.8	1.01							9.5				1.65	0.30	0.59	34				d
UV	Verr.	1	*orb.*	95887	pp	a	25.9	9.7	10.0	0.97							10.5				1.05	0.48	0.89	51				c
UV	Verr.	1	*suborb.*	95888	pp	sa	25.3	8.6	9.6	0.89							17.5				1.82	0.28	0.54	31				c
UV	Verr.	1	sp.	95889	pp	j	16.3																					
LV	Neoc.	1	*orb.*	95896	pp	j/sa	17.3	9.0	9.5	0.95							9.5				1.00	0.50	0.93	53				dc
LV	Neoc.	1	*vaub.*	95897	pp	vj	14.5	4.6	4.8	0.96							8.5				1.78	0.28	0.55	31				dc
UV	Verr.	1	*orb.*	95906	pmpp	sa	40.5	8.3	9.4	0.89	9.1	9.1	0.99	1.03	0.92	37.0	10.0	30.0	0.81	0.27	1.06	0.47	0.88	50		17.0	0.46	c
LV	Inos.	1	*vaub.*	95909	c	j	41.1	6.5	6.7	0.97	6.1	6.2	0.98	1.08	1.07	32.0	11.0	24.0	0.75	0.34	1.65	0.30	0.59	34	18	12.5	0.39	dc
UV	Verr.	1	*orb.*	95910	c-pa	sa	41.2	9.8	10.6	0.93	7.4	8.0	0.92	1.33	1.34	35.0	11.5	30.0	0.86	0.33	1.08	0.46	0.87	50		12.0	0.34	dc
UV	Verr.	1	sp.	95920	pmpp	sa	30.1																					
UV	Verr.	1	*touc.*	95947	pmpp	j	32.0	6.9	8.3	0.83	6.4	7.0	0.91	1.18	1.08	30.0	14.0	18.0	0.60	0.47	1.69	0.30	0.57	33		10.0	0.33	d
UV	Verr.	1	*orb.*	95948	pmpp	j/sa	29.2	9.3	10.0	0.93							11.0				1.11	0.45	0.85	49				c
UV	Verr.	1	*suborb.*	95949	pp	j/sa	25.3	8.3	9.3	0.90							19.5				2.11	0.24	0.47	27				c
UV	Verr.	1	sp.	95950	pmpp	j	24.7																					
UV	Verr.	1	*orb.*	95951	pmpp	vj	21.2	5.4	5.8	0.92							8.5				1.46	0.34	0.66	38				c
UV	Verr.	1	*orb.*	95952	pmpp	vj	17.9	4.8	5.0	0.95							7.5				1.50	0.33	0.64	37				dc
UV	Verr.	1	*touc.*	95953	pmpp	vj	16.3	4.5	5.0	0.89							8.0				1.59	0.31	0.61	35				d
LV	Neoc.	1	*touc.*	95954	pmpp	sa/a		9.5	11.7	0.81							13.0				1.11	0.45	0.85	48				d
LV	Neoc.	1	*touc.*	95955	pp	j/sa	23.0	7.5	9.2	0.82							12.5				1.36	0.37	0.70	40				dc
LV	Inos.	1	*touc.*	95956	pmpp	vj	17.2	5.2	5.7	0.91							8.0				1.40	0.36	0.68	39				dc
LV	Inos.	1	*vaub.*	95957	pmpp	j/sa	24.2	8.3	9.1	0.91							13.0				1.43	0.35	0.67	39				dc
LV	Inos.	1	*touc.*	95958	pp	j/sa	20.5	7.8	9.0	0.87							14.0				1.56	0.32	0.62	36				d
UV	Verr.	1	*orb.*	95959	pp	j	18.1	7.3	7.8	0.94							9.0				1.16	0.43	0.81	47				c
UV	Verr.	1	*vaub.*	95960	pp	j	17.0	5.5	5.8	0.94							10.0				1.71	0.29	0.57	33				dc
UV	Verr.	1	*suborb.*	95961	pmpp	j	23.5	6.5	7.0	0.93							14.5				2.07	0.24	0.47	27				c
UV	Verr.	1	*vaub.*	95962	pp	vj	16.9	5.9	6.1	0.97							10.5				1.74	0.29	0.56	32				c
UV	Verr.	1	*vaub.*	95963	pp	j	22.5	7.4	7.9	0.94							13.0				1.65	0.30	0.59	34				dc
LV	Neoc.	1	*vaub.*	95964	pmpp	vj	18.3	4.2	4.5	0.93	3.7	3.8	0.98	1.19	1.12	16.5	7.5	10.0	0.61	0.45	1.67	0.30	0.58	33				dc
UV	Verr.	1	*vaub.*	95965	pmpp	j	24.0	5.3	5.7	0.94	5.1	5.5	0.93	1.03	1.04	22.5	10.0	14.0	0.62	0.44	1.76	0.28	0.55	32		7.0	0.31	c
UV	Verr.	1	*vaub.*	95966	pmpp	mj	15.1	3.1	3.1	1.01	2.6	2.7	0.96	1.12	1.17	14.5	5.5	10.0	0.69	0.38	1.80	0.28	0.54	31				dc
UV	Verr.	1	*orb.*	95967	pmpp	j	21.2	6.8	7.2	0.96							8.0				1.12	0.45	0.84	48				c
UV	Verr.	1	*orb.*	95968	pmpp	vj	19.7	6.0	6.2	0.98							7.5				1.21	0.41	0.78	45				c
UV	Verr.	1	*vaub.*	95969	pmpp	j	17.2	5.7	5.9	0.97	5.0	5.7	0.88	1.03	1.14	23.0	9.5	13.0	0.57	0.41	1.61	0.31	0.60	34		6.0	0.26	dc
UV	Verr.	1	*orb.*	95970	pmpp	j	23.2	7.6	8.1	0.94							10.5				1.30	0.38	0.73	42				c
UV	Verr.	1	*touc.*	95971	pp	j	16.7	6.6	7.7	0.86							11.0				1.44	0.35	0.67	38				d
UV	Verr.	1	*vaub.*	95972	pp	j	21.6	6.9	7.6	0.90							13.0				1.71	0.29	0.57	33				dc
UV	Verr.	1	sp.	95973	pmpp	j	21.2																					
UV	Verr.	1	*orb.*	95974	pmpp	j	24.3	7.2	7.6	0.94							9.5				1.25	0.40	0.76	44				c
UV	Verr.	1	*vaub.*	95975	pmpp	j	24.7	7.5	7.7	0.97							12.0				1.55	0.32	0.62	36				dc
UV	Verr.	1	sp.	95976	pp		23.2																					
UV	Verr.	1	*orb.*	95977	pmpp	j	26.7	8.1	8.3	0.98	6.9	7.1	0.98	1.17	1.17	25.5	10.5	16.0	0.63	0.41	1.27	0.39	0.75	43		8.0	0.31	c
LV	Pert.	1	*vaub.*	95978	pmpp	j	25.2	7.0	7.6	0.92							11.0				1.45	0.34	0.66	38				dc
LV	Pert.	1	*vaub.*	95979	pmpp	j	22.9	7.3	8.3	0.88							14.0				1.68	0.30	0.58	33				dc
UV	Verr.	1	*orb.*	95989	c	sa	45.1	8.8	9.7	0.91	8.1	8.2	0.99	1.19	1.09	37.5	11.0	27.0	0.72	0.29	1.13	0.44	0.83	48		12.0	0.32	dc
UV	Verr.	1	*vaub.*	95990	c-pa	j	36.6	7.5	8.2	0.91	7.0	7.5	0.93	1.09	1.07	32.0	13.0	23.0	0.72	0.41	1.59	0.32	0.61	35		12.0	0.38	dc
UV	Verr.	1	*suborb.*	96034	c	vj/j	28.8	5.0	5.8	0.85	4.1	4.2	0.98	1.39	1.21	24.0	12.0	17.0	0.71	0.50	2.06	0.24	0.48	27		7.0	0.29	dc
UV	Verr.	1	*vaub.*	96253	c-pa	sa	43.2	8.3	9.1	0.91	8.3	9.0	0.93	1.02	1.00	38.0	14.0	28.0	0.74	0.37	1.53	0.33	0.63	36		14.0	0.37	dc
UV	Verr.	1	*orb.*	96254	pmpp	sa	34.2	8.4	9.2	0.91	7.5	8.0	0.93	1.16	1.12	33.0	11.0	23.0	0.70	0.33	1.19	0.42	0.79	45		13.5	0.41	c
UV	Verr.	1	sp.	96255	pp	sa	29.4																					
UV	Verr.	1	*orb.*	96256	pmpp	j	23.8	6.8	7.5	0.91	6.6	7.1	0.93	1.06	1.04	23.0	8.5	18.0	0.78	0.37	1.13	0.44	0.83	48		9.0	0.39	c
UV	Verr.	1	*suborb.*	96257	pp	sa	24.7	10.3	10.6	0.97							20.0				1.89	0.27	0.52	30				c
UV	Verr.	1	*vaub.*	96258	pp	j	16.8	6.4	6.8	0.94							11.0				1.61	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	96259	pp	j	18.7	7.0	6.7	1.04							11.0				1.63	0.31	0.59	34				dc
UV	Verr.	1	*orb.*	96271	pmpp	sa	34.2	9.6	10.5	0.91							12.0				1.15	0.44	0.82	47			c	c
LV	Pert.	1	*touc.*	96353	c	sa/a	62.3	10.8	12.2	0.89	9.1	10.4	0.88	1.17	1.18	45.0	13.0	33.0	0.73	0.29	1.07	0.47	0.88	50		10.0	0.22	dc
LV	Pert.	1	*touc.*	96354	c	j/sa	54.5	7.9	9.6	0.82	8.4	9.2	0.92	1.05	0.94	42.0	17.0	30.5	0.73	0.40	1.77	0.28	0.55	32		15.0	0.36	dc
LV	Pert.	1	*touc.*	96355	c-pa	j/sa	42.2	8.3	10.1	0.82	7.0	8.2	0.85	1.23	1.18	36.0	14.0	27.5	0.76	0.39	1.39	0.36	0.69	40		11.0	0.31	dc
LV	Pert.	1	*touc.*	96356	c	j	41.0	7.0	8.0	0.87	7.2	7.6	0.94	1.05	0.97	31.5	14.0	22.0	0.70	0.44	1.75	0.29	0.56	32		8.5	0.27	d
LV	Pert.	1	*touc.*	96357	pp	j	21.9	7.5	8.6	0.87							10.5				1.23	0.41	0.77	44				d
LV	Pert.	1	*touc.*	96358	papm	sa																						
LV	Inos.	1	*touc.*	96370	c-pa	j	37.9	6.4	7.5	0.86	5.9	6.7	0.88	1.11	1.08	31.0	10.5	23.0	0.74	0.34	1.41	0.35	0.68	39		8.5	0.27	dc
UV	Verr.	1	*orb.*	96380	pmpp	sa	50.4	10.2	10.6	0.96	9.8	9.9	0.99	1.07	1.03	32.0	12.0	23.0	0.72	0.38	1.13	0.44	0.83	48	18	14.0	0.44	c
UV	Verr.	1	*touc.*	96381	pmpp	sa	32.3	9.3	11.0	0.84							14.5				1.32	0.38	0.73	42				dc
UV	Verr.	1	*orb.*	96382	pp	j/sa	20.8	8.6	9.1	0.94							10.5				1.15	0.44	0.82	47				c
UV	Verr.	1	*vaub.*	96383	pmpp	vj	17.0	4.6	4.9	0.93							9.0				1.83	0.27	0.53	31				dc
UV	Verr.	1	*touc.*	96384	pp	vj/j	21.3	5.3	6.3	0.84							10.0				1.58	0.32	0.61	35				dc
LV	Neoc.	1	*touc.*	96419	c-pa	sa	50.2	9.6	11.8	0.81	9.5	10.1	0.94	1.17	1.02	41.0	13.0	27.0	0.66	0.32	1.10	0.46	0.85	49		13.5	0.33	dc
LV	Neoc.	1	*suborb.*	96420	pp	a	35.6	11.0	13.0	0.85							24.0				1.85	0.27	0.53	30				c

18	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*vaub.*	96421	pmpp	j/sa	37.0	8.8	10.1	0.87	8.6	9.4	0.92	1.08	1.02	35.0	14.0	23.0	0.66	0.40	1.39	0.36	0.69	40		15.0	0.43	dc
LV	Neoc.	1	*touc.*	96422	pmpp	j/sa	33.3	8.5	9.9	0.87																		
LV	Neoc.	1	*vaub.*	96423	c-pa	j	30.7	5.8	6.4	0.91	5.0	5.7	0.87	1.12	1.17	27.0	11.5	18.0	0.67	0.43	1.81	0.28	0.54	31		5.0	0.19	d
LV	Neoc.	1	*vaub.*	96424	c	j	32.1	5.3	5.8	0.91	4.8	5.1	0.95	1.15	1.10	25.0	10.0	16.0	0.64	0.40	1.72	0.29	0.57	32		5.5	0.22	dc
LV	Neoc.	1	*touc.*	96425	c-pa	mj	17.4	3.3	3.5	0.95	2.9	3.1	0.93	1.13	1.16	15.0	6.0	7.5	0.50	0.40	1.72	0.29	0.57	32		4.0	0.27	d
LV	Neoc.	1	*vaub.*	96426	pp	sa	19.6	8.7	9.8	0.89							15.0				1.54	0.33	0.63	36				dc
LV	Neoc.	1	*touc.*	96427	pp	j	18.1	7.7	9.1	0.85							12.0				1.32	0.38	0.72	41				d
UV	Verr.	1	*suborb.*	96445	c	j	34.4	5.5	5.8	0.96	4.9	5.1	0.96	1.13	1.13	28.0	12.5	18.0	0.64	0.45	2.17	0.23	0.45	26		10.0	0.36	c
UV	Verr.	1	*vaub.*	96446	pp	j	20.2	6.0	6.5	0.93							10.5				1.62	0.31	0.60	34				dc
LV	Neoc.	1	*suborb.*	96460	c	j	37.8	6.8	8.3	0.82	6.7	7.6	0.88	1.09	1.02	31.0	17.5	24.0	0.77	0.56	2.11	0.24	0.46	27		12.0	0.39	c
LV	Neoc.	1	*touc.*	96461	pp	sa	23.7	7.4	8.7	0.86							14.0				1.62	0.31	0.60	34				d
LV	Neoc.	1	*touc.*	96523	c	sa	50.2	9.6	11.0	0.88	9.3	10.0	0.93	1.10	1.04	41.0	13.5	29.0	0.71	0.33	1.23	0.41	0.77	44		17.0	0.41	dc
LV	Neoc.	1	*orb.*	96524	c-pa	a	51.2	10.3	11.8	0.87	10.3	11.1	0.92	1.06	1.00	39.0	12.0	31.5	0.81	0.31	1.01	0.49	0.92	52		17.5	0.45	c
LV	Neoc.	1	*touc.*	96525	c	sa/a	51.1	9.5	11.2	0.85	8.5	10.0	0.84	1.11	1.13	39.5	12.0	28.0	0.71	0.30	1.07	0.47	0.87	50		15.5	0.39	dc
LV	Neoc.	1	*touc.*	96526	c-pa	sa	47.2	9.2	10.6	0.86	9.3	10.1	0.92	1.06	0.99	38.5	15.5	29.0	0.75	0.40	1.46	0.34	0.66	38		17.0	0.44	dc
LV	Neoc.	1	*touc.*	96527	c-pa	sa	45.6	9.4	10.5	0.89	9.6	10.2	0.93	1.03	0.98	36.5	16.5	25.0	0.68	0.45	1.57	0.32	0.62	35		16.5	0.45	d
LV	Neoc.	1	*touc.*	96528	c	a	62.7	10.8	13.3	0.81	10.9	11.8	0.92	1.13	1.00	43.0	16.0	31.0	0.72	0.37	1.20	0.42	0.79	45		16.0	0.37	dc
LV	Neoc.	1	sp.	96529	f	a																			18			
LV	Neoc.	1	sp.	96530	f	j																			18			
LV	Neoc.	1	sp.	96531	pmpp	sa	27.1																					
LV	Neoc.	1	*suborb.*	96532	c-pa	mj	20.9	3.8	3.7	1.03	2.8	3.1	0.88	1.19	1.40	18.0	7.5	11.0	0.61	0.42	2.01	0.25	0.49	28		2.5	0.14	dc
LV	Neoc.	1	*touc.*	96533	pmpp	vj	14.1	4.4	4.8	0.91							7.0				1.45	0.34	0.66	38				dc
LV	Neoc.	1	*suborb.*	96534	c-pa	sa	48.3	9.0	10.1	0.89	8.9	9.6	0.92	1.05	1.01	40.5	18.0	30.0	0.74	0.44	1.79	0.28	0.55	31		16.5	0.41	c
LV	Neoc.	1	*suborb.*	96535	pmpp	j/sa	32.3	7.5	8.1	0.92	7.7	8.4	0.92	0.97	0.97	30.5	18.0	20.0	0.66	0.59	2.22	0.23	0.44	25		9.5	0.31	dc
LV	Neoc.	1	*touc.*	96536	c	j	36.0	6.4	7.3	0.89	5.7	6.6	0.86	1.11	1.14	29.0	12.0	19.0	0.66	0.41	1.65	0.30	0.59	34		7.0	0.24	dc
LV	Neoc.	1	*touc.*	96537	pmpp	j/sa	35.5	7.7	8.9	0.87	7.5	7.9	0.94	1.12	1.03	31.0	13.0	21.0	0.68	0.42	1.47	0.34	0.66	38		13.0	0.42	d
LV	Neoc.	1	*touc.*	96538	pmpp	a	32.9	11.1	13.1	0.85							20.0				1.52	0.33	0.63	36				
LV	Neoc.	1	*touc.*	96539	pp	a	22.5	10.1	12.1	0.83							17.0				1.40	0.36	0.68	39				d
LV	Neoc.	1	*touc.*	96540	pmpp	j	26.2	5.7	6.2	0.92	5.5	6.0	0.91	1.03	1.04	23.0	10.0	16.0	0.70	0.43	1.61	0.31	0.60	34		6.0	0.26	d
LV	Neoc.	1	*suborb.*	96541	pmpp	vj	20.5	4.5	4.8	0.95							10.0				2.11	0.24	0.47	27				c
LV	Neoc.	1	*touc.*	96542	pmpp	mj	17.2	3.3	3.5	0.95							5.5				1.56	0.32	0.62	35				d
UV	Verr.	1	*suborb.*	96585	c-pa	j/sa	42.7	7.9	8.4	0.94	7.1	6.9	1.03	1.21	1.11	36.0	15.0	21.0	0.58	0.42	1.80	0.28	0.54	31		10.5	0.29	dc
UV	Verr.	1	*orb.*	96586	c-pa	j	40.0	7.6	8.1	0.94	7.5	8.3	0.90	0.98	1.01	32.0	11.5	21.0	0.66	0.36	1.42	0.35	0.68	39		12.5	0.39	c
UV	Verr.	1	*touc.*	96587	pmpp	sa	31.9	8.3	9.5	0.87	8.2	8.3	0.98	1.14	1.02	31.0	14.0	20.0	0.65	0.45	1.47	0.34	0.65	37		13.5	0.44	dc
UV	Verr.	1	*vaub.*	96588	c	vj/j	31.1	5.4	5.8	0.94	4.8	5.3	0.91	1.09	1.12	23.0	10.0	15.0	0.65	0.43	1.73	0.29	0.56	32		9.0	0.39	dc
UV	Verr.	1	*orb.*	96589	pmpp	j	25.5	7.7	8.1	0.95							11.5				1.42	0.35	0.68	39				c
UV	Verr.	1	*vaub.*	96590	pp	j/sa	23.7	8.2	9.2	0.89							15.0				1.64	0.31	0.59	34				dc
UV	Verr.	1	*orb.*	96591	pp	j	25.2	7.8	8.4	0.93							10.5				1.25	0.40	0.76	44				c
UV	Verr.	1	*vaub.*	96592	pp	j	22.9	7.7	8.0	0.97							13.0				1.63	0.31	0.59	34				dc
UV	Verr.	1	*orb.*	96593	pp	j																						dc
UV	Verr.	1	*orb.*	96621	c	j/sa	45.5	8.1	8.7	0.94	8.2	8.3	0.98	1.04	1.00	35.0	12.0	25.0	0.71	0.34	1.38	0.36	0.69	40		14.0	0.40	dc
UV	Verr.	1	*vaub.*	96622	pmpp	a	41.0	11.9	13.0	0.91	10.6	11.3	0.94	1.16	1.12	38.0	17.0	27.0	0.71	0.45	1.31	0.38	0.73	42				dc
UV	Verr.	1	*suborb.*	96623	pmpp	sa	40.2	9.6	10.6	0.90	9.1	9.9	0.92	1.08	1.05	40.0	21.0	28.0	0.70	0.53	1.98	0.25	0.50	28				c
UV	Verr.	1	*vaub.*	96624	c	j	38.9	6.7	7.0	0.95	5.9	6.2	0.95	1.14	1.14	29.5	12.0	22.0	0.75	0.41	1.71	0.29	0.57	33		10.0	0.34	dc
UV	Verr.	1	*suborb.*	96625	c-pa	j	32.4	5.9	6.1	0.96	5.1	5.5	0.93	1.11	1.15	26.0	13.0	21.0	0.81	0.50	2.13	0.23	0.46	26		8.0	0.31	c
UV	Verr.	1	*suborb.*	96626	pmpp	j	27.1	5.5	5.6	0.97	5.0	5.2	0.95	1.08	1.10	26.0	11.5	18.0	0.69	0.44	2.04	0.25	0.48	28		9.0	0.35	c
UV	Verr.	1	*vaub.*	96627	pmpp	j	24.2	6.8	7.1	0.96							11.0				1.54	0.32	0.63	36				dc
UV	Verr.	1	*vaub.*	96628	pmpp	j/sa	36.3	9.1	9.8	0.92	8.4	8.5	1.00	1.16	1.07	35.0	14.0	23.0	0.66	0.40	1.42	0.35	0.68	39		13.0	0.37	c
UV	Verr.	1	*vaub.*	96629	pmpp	sa	32.6	8.5	8.9	0.96							14.0				1.58	0.32	0.61	35	18			dc
UV	Verr.	1	*touc.*	96630	pmpp	j	26.1	7.3	8.3	0.88							12.5				1.51	0.33	0.64	37				d
UV	Verr.	1	*vaub.*	96631	pmpp	j	22.0	6.1	6.1	1.00							10.0				1.63	0.31	0.60	34				dc
UV	Verr.	1	*vaub.*	96632	pp	sa	21.2	9.0	9.8	0.91							15.3				1.55	0.32	0.62	36				dc
UV	Verr.	1	*vaub.*	96633	pp	sa	22.0	8.3	8.9	0.93							13.5				1.52	0.33	0.64	36				dc
UV	Verr.	1	sp.	96634	f	j																						
UV	Verr.	1	sp.	96635	f	j																						
UV	Verr.	1	sp.	96636	f	j																						
UV	Verr.	1	sp.	96637	f	j																						
UV	Verr.	1	*vaub.*	96669	c-pa	j/sa	37.0	8.1	8.6	0.94	7.5	8.0	0.93	1.07	1.08	30.0	13.5	22.0	0.73	0.45	1.56	0.32	0.62	35		9.0	0.30	dc
UV	Verr.	1	*vaub.*	96670	pmpp	sa	28.7	9.3	9.7	0.96							15.0				1.55	0.32	0.62	36				dc
UV	Verr.	1	*orb.*	96691	pmpp	sa	27.5	8.7	9.9	0.88							10.0				1.01	0.49	0.92	53				c
UV	Verr.	1	*orb.*	96692	pmpp	sa	26.5	9.4	10.2	0.92							12.0				1.18	0.42	0.80	46				c
UV	Verr.	1	*orb.*	96693	pmpp	j	27.2	7.3	7.7	0.94							10.0				1.29	0.39	0.74	42				c
UV	Verr.	1	*vaub.*	96694	c-pa	vj/j	26.4	5.2	5.5	0.94	4.4	4.8	0.92	1.14	1.17	22.0	9.5	13.0	0.59	0.43	1.74	0.29	0.56	32		7.5	0.34	dc
UV	Verr.	1	*orb.*	96695	pmpp	j	31.3	7.4	8.1	0.91	6.7	7.1	0.95	1.15	1.10	28.0	9.8	19.0	0.68	0.35	1.20	0.42	0.79	45		12.0	0.43	dc
UV	Verr.	1	*orb.*	96696	pp	sa	23.8	8.9	9.2	0.96							11.5				1.25	0.40	0.76	44				c
UV	Verr.	1	sp.	96697	pp	sa	21.3																					
UV	Verr.	1	*suborb.*	96698	pmpp	j/sa	27.9	7.4	7.9	0.94							15.0				1.91	0.26	0.51	29				dc
UV	Verr.	1	*vaub.*	96710	c	sa	50.4	8.6	9.1	0.94	8.9	9.1	0.97	1.00	0.96	36.0	14.0	27.5	0.76	0.39	1.53	0.33	0.63	36	18	13.0	0.36	dc
UV	Verr.	1	*vaub.*	96711	c-pa	sa	38.1	8.9	9.2	0.96	8.1	8.9	0.91	1.04	1.10	32.0	13.0	23.0	0.72	0.41	1.41	0.36	0.68	39		11.5	0.36	d
UV	Verr.	1	sp.	96712	pp	j																						
UV	Verr.	1	sp.	96713	papm	j																						
LV	Inos.	1	*suborb.*	96735	pmpp	a	38.2	10.1	11.1	0.91	9.4	9.9	0.94	1.12	1.08	36.5	21.0	27.0	0.74	0.58	1.89	0.27	0.52	30				dc
LV	Inos.	1	*touc.*	96736	c-pa	j	39.7	6.9	7.9	0.87	6.7	7.1	0.93	1.11	1.03	31.5	14.0	22.0	0.70	0.44	1.77	0.28	0.55	32		10.0	0.32	dc
LV	Inos.	1	*touc.*	96737	pmpp	j	27.8	7.0	7.7	0.90	6.4	7.2	0.90	1.08	1.09	26.0	13.0	18.0	0.69	0.50	1.68	0.30	0.58	33				d
LV	Inos.	1	sp.	96738	c	j	37.5																					
LV	Inos.	1	*vaub.*	96739	c	j	42.9	8.0	8.3	0.95	8.1	8.3	0.97	1.01	0.99	30.5	14.0	20.0	0.66	0.46	1.68	0.30	0.58	33		11.0	0.36	dc
LV	Inos.	1	*vaub.*	96740	pmpp	vj	20.9	5.4	5.7	0.95							11.0				1.95	0.26	0.50	29				dc
LV	Neoc.	1	*orb.*	96748	c-pa	j	32.1	6.4	7.5	0.85	5.9	6.4	0.93	1.17	1.07	25.0	7.5	19.5	0.78	0.30	1.01	0.50	0.92	53		8.5	0.34	dc
LV	Neoc.	1	*orb.*	96749	pmpp	sa/a	39.6	10.2	11.3	0.90	9.5	10.2	0.93	1.11	1.07	38.5	12.5	28.0	0.73	0.32	1.10	0.45	0.85	49		18.0	0.47	c
LV	Neoc.	1	*suborb.*	96750	c-pa	vj	22.6	4.5	4.6	0.98	3.9	4.0	0.97	1.16	1.17	19.0	9.5	11.0	0.58	0.50	2.07	0.24	0.48	27		4.0	0.21	c

19	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*touc.*	96751	pmpp	j	33.1	7.2	8.9	0.81	7.0	7.6	0.92	1.16	1.03	32.0	15.0	22.0	0.69	0.47	1.69	0.30	0.57	33		11.0	0.34	d
LV	Inos.	1	*orb.*	97069	c	j	38.2	7.4	8.2	0.91	7.3	7.7	0.95	1.06	1.01	27.5	7.5	23.0	0.84	0.27	0.92	0.54	1.00	57		8.0	0.29	c
LV	Neoc.	1	*touc.*	97075	pmpp	j	34.7	6.9	8.0	0.87	6.4	7.2	0.89	1.12	1.09	35.0	14.0	24.5	0.70	0.40	1.75	0.29	0.56	32				
LV	Neoc.	1	*vaub.*	97076	c	j	35.8	6.5	6.9	0.94	5.8	6.1	0.95	1.14	1.12	29.5	12.5	21.0	0.71	0.42	1.81	0.28	0.54	31		6.5	0.22	dc
LV	Neoc.	1	*vaub.*	97077	pmpp	vj	22.1	4.9	5.0	0.98							9.0				1.80	0.28	0.54	31				dc
LV	Neoc.	1	*touc.*	97078	pmpp	mj	10.4	2.9	3.0	0.96							5.0				1.68	0.30	0.58	33				d
UV	Verr.	1	*orb.*	97099	pmpp	sa	31.5	8.4	9.0	0.93	8.0	8.9	0.90	1.01	1.05	30.0	11.0	21.5	0.72	0.37	1.22	0.41	0.78	44		10.5	0.35	c
UV	Verr.	1	*orb.*	97100	pp	sa	23.3	8.7	9.8	0.89							11.0				1.13	0.44	0.84	48				c
UV	Verr.	1	*vaub.*	97101	pp	sa	21.3	8.9	9.2	0.96							14.5				1.57	0.32	0.62	35				dc
LV	Inos.	1	*orb.*	97104	pmpp	j	25.1	5.7	6.1	0.94	4.7	5.2	0.90	1.17	1.21	23.0	8.0	11.5	0.50	0.35	1.32	0.38	0.72	41				c
UV	Verr.	1	*vaub.*	97135	c-pa	sa/a	48.1	9.8	10.5	0.93	9.0	9.7	0.93	1.08	1.08	41.0	15.0	30.0	0.73	0.37	1.43	0.35	0.67	38		12.0	0.29	c
UV	Verr.	1	*vaub.*	97136	pmpp	a	43.4	11.7	12.8	0.91							19.0				1.48	0.34	0.65	37	18			dc
UV	Verr.	1	sp.	97137	pmpp	sa	31.5																					
UV	Verr.	1	*suborb.*	97138	pmpp	a	36.8	10.3	11.6	0.88							20.0				1.72	0.29	0.56	32				c
UV	Verr.	1	*vaub.*	97139	pmpp	sa	33.1	8.4	9.6	0.88							15.0				1.56	0.32	0.62	35				dc
UV	Verr.	1	*vaub.*	97140	pmpp	j/sa	34.8	8.1	8.8	0.92	6.8	7.4	0.93	1.19	1.19	31.5	14.5	22.0	0.70	0.46	1.65	0.30	0.59	34		5.5	0.17	dc
UV	Verr.	1	*suborb.*	97141	pmpp	j	27.1	7.3	7.5	0.97							15.5				2.07	0.24	0.47	27				c
UV	Verr.	1	*vaub.*	97142	pmpp	vj	20.0	4.0	3.9	1.01	3.0	3.6	0.85	1.10	1.31	17.5	7.0	12.0	0.69	0.40	1.78	0.28	0.55	31				dc
UV	Verr.	1	*vaub.*	97143	pp	sa	25.0	9.5	10.3	0.91							15.0				1.45	0.34	0.66	38				dc
UV	Verr.	1	*orb.*	97144	pp	j	18.5	6.9	7.3	0.94							10.0				1.36	0.37	0.70	40				dc
UV	Verr.	1	*vaub.*	98579	c-pa	sa	46.4	9.7	10.7	0.91	8.6	8.6	0.99	1.23	1.13	38.0	15.0	29.5	0.78	0.39	1.41	0.36	0.68	39		10.5	0.28	dc
UV	Verr.	1	*vaub.*	98580	pmpp	j/sa	32.4	8.8	9.9	0.89	8.5	8.6	0.99	1.15	1.04	31.0	14.0	23.0	0.74	0.45	1.42	0.35	0.68	39		13.5	0.44	dc
UV	Verr.	1	*orb.*	98581	c	vj	24.4	4.4	4.3	1.02	3.9	4.0	0.97	1.07	1.13	19.5	5.5	16.0	0.82	0.28	1.28	0.39	0.75	43		7.0	0.36	dc
UV	Verr.	1	*suborb.*	98582	pmpp	vj	22.3	4.8	4.9	0.98	4.1	4.4	0.95	1.11	1.15	20.5	10.0	14.0	0.68	0.49	2.06	0.24	0.48	27				dc
UV	Verr.	1	*orb.*	98583	pmpp	j	21.3	7.2	7.9	0.92							10.0				1.27	0.39	0.75	43				c
UV	Verr.	1	*orb.*	98584	pmpp	vj	19.5	5.2	5.8	0.89							8.5				1.46	0.34	0.66	38				c
UV	Verr.	1	*orb.*	98585	pp	sa	19.8	10.5	11.4	0.93							13.0				1.15	0.44	0.82	47				d
UV	Verr.	1	*orb.*	98586	pp	j/sa	19.9	9.0	9.5	0.95							10.8				1.13	0.44	0.83	48				c
UV	Verr.	1	*orb.*	98587	pmpp	j	18.1	6.5	6.9	0.95							8.0				1.17	0.43	0.81	46				c
UV	Verr.	1	*orb.*	98588	pp	j	15.5	6.1	6.5	0.94							7.5				1.15	0.43	0.82	47				c
UV	Verr.	1	*orb.*	98589	pmpp	vj	16.0	4.1	4.2	0.98						15.5	6.0	10.5	0.68	0.39	1.44	0.35	0.67	38				dc
UV	Verr.	1	sp.	98590	f																							
UV	Verr.	1	sp.	98591	f																							
UV	Verr.	1	sp.	98592	f																							
UV	Verr.	1	sp.	98593	f																							
UV	Verr.	1	sp.	98594	f																							
UV	Verr.	1	sp.	98595	f																							
UV	Verr.	1	sp.	98596	f																							
UV	Verr.	1	sp.	98597	f																							
UV	Verr.	1	sp.	98598	f																							
UV	Verr.	1	sp.	98599	f																							
UV	Verr.	1	sp.	98600	f																							
UV	Verr.	1	sp.	98601	pmpp	j	23.3																					
LV	Inos.	1	*vaub.*	98622	pmpp	j/sa	26.6	8.1	8.4	0.96							13.5				1.61	0.31	0.60	35				dc
LV	Neoc.	1	*touc.*	98639	c-pa	j/sa	33.0	6.8	7.9	0.86	5.8	6.4	0.91	1.23	1.17	29.0	11.0	21.0	0.72	0.38	1.40	0.36	0.69	39		8.0	0.28	dc
LV	Inos.	1	*orb.*	98640	pp	a	33.1	13.8	15.1	0.92							15.5				1.03	0.49	0.91	52				c
UV	Verr.	1	*vaub.*	98650	c-pa	j	40.4																					
UV	Verr.	1	*vaub.*	98651	pmpp	sa	35.8																					dc
UV	Verr.	1	*orb.*	98652	pmpp	j	27.7	7.5	8.3	0.90	7.1	7.8	0.91	1.06	1.05	26.0	10.0	18.0	0.69	0.38	1.20	0.42	0.79	45		5.0	0.19	c
UV	Verr.	1	*orb.*	98653	pmpp	j	23.1	8.0	8.2	0.97							9.5				1.16	0.43	0.82	47				c
UV	Verr.	1	*orb.*	98654	pmpp	j/sa	28.5	8.2	9.0	0.91	7.2	8.1	0.88	1.10	1.14	27.0	11.5	18.0	0.67	0.43	1.28	0.39	0.74	43				c
UV	Verr.	1	*vaub.*	98655	pmpp	vj	20.9	5.3	5.1	1.03							9.5				1.85	0.27	0.53	30				dc
UV	Verr.	1	*orb.*	98656	pp	j/sa	21.2	9.1	9.3	0.98							11.0				1.19	0.42	0.80	46				dc
UV	Verr.	1	*suborb.*	98734	pmpp	sa	38.1	9.5	10.7	0.89	9.2	9.7	0.95	1.10	1.04	31.5	18.0	25.0	0.79	0.57	1.69	0.30	0.58	33		12.0	0.38	c
UV	Verr.	1	*orb.*	98735	pp	sa	18.3	9.7	10.7	0.90							12.0				1.12	0.45	0.84	48				c
UV	Verr.	1	*suborb.*	98736	pp	sa	21.0																					c
LV	Neoc.	1	*orb.*	98738	pp	j	22.8	7.4	7.9	0.94							12.0				1.53	0.33	0.63	36				dc
UV	Verr.	1	*vaub.*	98739	pmpp	j	28.5	6.3	6.6	0.95	5.3	5.5	0.97	1.20	1.18	26.5	11.0	14.0	0.53	0.42	1.67	0.30	0.58	33		5.5	0.21	dc
UV	Verr.	1	*vaub.*	98740	pp	j	18.1	5.8	6.2	0.95							11.0				1.79	0.28	0.55	31				dc
LV	Neoc.	1	*touc.*	98768	pmpp	sa	31.3	10.0	11.7	0.85							12.0				1.03	0.49	0.90	52				d
LV	Neoc.	1	*touc.*	98769	pp	sa	19.2	9.6	11.3	0.85							11.0				0.97	0.51	0.95	54				dc
UV	Verr.	1	*suborb.*	98774	pp	sa	21.9	7.6	8.1	0.94							15.5				1.91	0.26	0.51	29				c
UV	Verr.	1	*orb.*	98775	pp	j	20.7	6.6	7.3	0.90							10.0				1.36	0.37	0.70	40				dc
UV	Verr.	1	*orb.*	98776	pp	j	18.7	8.0	8.5	0.94							12.0				1.42	0.35	0.68	39				dc
UV	Verr.	1	sp.	98777	c-pa																							
UV	Verr.	1	*vaub.*	98789	pmpp	vj	20.1	4.3	4.4	0.99	3.5	3.8	0.92	1.14	1.23	19.0	8.0	12.5	0.66	0.42	1.83	0.27	0.53	31				dc
UV	Verr.	1	*vaub.*	98790	c	mj	15.6	2.4	2.2	1.10	1.9	1.9	1.00	1.16	1.28	13.0	4.3	7.0	0.54	0.33	1.93	0.26	0.51	29		3.0	0.23	c
UV	Verr.	1	*vaub.*	98807	c	j/sa	51.1	8.1	9.0	0.90	7.7	7.8	0.99	1.15	1.05	38.0	14.0	26.0	0.68	0.37	1.55	0.32	0.62	36		11.0	0.29	dc
UV	Verr.	1	*vaub.*	98808	c-pa	sa	45.0	10.1	11.1	0.91	8.9	9.6	0.92	1.16	1.14	37.0	15.0			0.41	1.35	0.37	0.71	41		15.0	0.41	c
UV	Verr.	1	*vaub.*	98809	pmpp	j	25.9	7.3	7.4	0.99							13.0				1.75	0.29	0.56	32				dc
UV	Verr.	1	*suborb.*	98810	pmpp	j	25.5	7.2	7.4	0.96							15.0				2.02	0.25	0.49	28				dc
UV	Verr.	1	*vaub.*	98811	pmpp	vj	21.6	5.4	5.5	0.99							9.0				1.64	0.30	0.59	34				dc
UV	Verr.	1	*vaub.*	98812	pmpp	vj	20.6	4.6	4.9	0.94	4.0	4.4	0.90	1.10	1.15	19.5	8.5	11.5	0.59	0.44	1.73	0.29	0.56	32		6.0	0.31	dc
UV	Verr.	1	sp.	98813	f																							
UV	Verr.	1	sp.	98814	f																							
UV	Verr.	1	*suborb.*	98815	c-pa	a	51.6	10.5	11.1	0.95	9.2	10.1	0.91	1.11	1.15	44.0	19.5	35.0	0.80	0.44	1.75	0.29	0.56	32		15.0	0.34	c
UV	Verr.	1	*vaub.*	98816	c-pa	sa	51.2	10.6	11.8	0.90	8.6	9.1	0.95	1.30	1.24	42.0	16.0	34.0	0.81	0.38	1.35	0.37	0.71	41		12.0	0.29	c
UV	Verr.	1	*vaub.*	98817	pp	a	29.2	12.3	13.7	0.90							19.0				1.39	0.36	0.69	40				dc
UV	Verr.	1	*touc.*	98818	pmpp	j	31.3	8.1	9.2	0.88	7.3	7.9	0.93	1.17	1.10	30.0	12.0	21.0	0.70	0.40	1.31	0.38	0.73	42		10.0	0.33	d
UV	Verr.	1	sp.	98819	pmpp	j	24.2																					

20	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*orb.*	98820	pmpp	j	25.5	5.5	5.8	0.95	4.9	5.4	0.90	1.07	1.13	20.5	7.8	14.5	0.71	0.38	1.35	0.37	0.71	41		6.0	0.29	c
UV	Verr.	1	*orb.*	98821	pmpp	j	26.1	7.3	7.9	0.92							11.0				1.39	0.36	0.69	40				dc
UV	Verr.	1	*vaub.*	98822	pmpp	vj/j	19.3	5.5	5.7	0.96							10.0				1.75	0.29	0.56	32				dc
UV	Verr.	1	*suborb.*	98823	c-pa	mj	20.2	3.1	3.1	1.01	2.7	3.0	0.92	1.06	1.15	16.0	6.5	9.0	0.56	0.41	2.08	0.24	0.47	27		3.0	0.19	dc
UV	Verr.	1	*suborb.*	98824	c-pa	vj	23.4	4.5	4.9	0.92	3.8	4.4	0.86	1.11	1.18	21.0	10.0	14.0	0.67	0.48	2.04	0.25	0.48	28		4.5	0.21	c
UV	Verr.	1	*orb.*	98825	pmpp	vj	24.8	5.4	5.8	0.93	4.9	5.3	0.94	1.10	1.09	21.0	8.5	14.5	0.69	0.40	1.47	0.34	0.66	38		6.5	0.31	c
UV	Verr.	1	sp.	98826	pmpp	j	21.4																					
UV	Verr.	1	sp.	98827	f																							
UV	Verr.	1	sp.	98828	f																							
UV	Verr.	1	sp.	98829	f																							
UV	Verr.	1	*vaub.*	98875	pmpp	sa	45.6	9.6	10.2	0.94	9.3	9.8	0.95	1.04	1.03	41.0	15.5	30.0	0.73	0.38	1.52	0.33	0.63	36		16.0	0.39	dc
UV	Verr.	1	*touc.*	98876	pmpp	j	28.6	8.3	9.5	0.87							10.8				1.14	0.44	0.83	47				c
UV	Verr.	1	*orb.*	98877	pmpp	j	25.4	8.2	9.1	0.90							10.0				1.10	0.45	0.85	49				c
UV	Verr.	1	*orb.*	98878	pmpp	j	19.6	6.0	6.6	0.92							7.0				1.07	0.47	0.88	50				c
UV	Verr.	1	*vaub.*	98879	pp	j	18.8	7.4	8.0	0.92							14.0				1.74	0.29	0.56	32				dc
UV	Verr.	1	sp.	98880	pa																							
LV	Inos.	1	*vaub.*	98906	c-pa	j	34.4	6.9	7.6	0.91	6.1	6.7	0.90	1.13	1.14	30.0	12.0	17.0	0.57	0.40	1.59	0.31	0.61	35		13.0	0.43	d
LV	Inos.	1	*suborb.*	98907	pp	j/sa	25.5	8.1	8.7	0.93							15.0				1.73	0.29	0.56	32				dc
LV	Inos.	1	*suborb.*	98908	c-pa	j	34.9	6.9	7.3	0.95	6.1	7.0	0.88	1.05	1.13	29.5	14.0	19.0	0.64	0.47	1.92	0.26	0.51	29		10.0	0.34	dc
LV	Inos.	1	*touc.*	98909	pmpp	j	24.7	6.3	7.1	0.90							13.5				1.91	0.26	0.51	29				d
LV	Inos.	1	*vaub.*	98910	f	j/sa	42.4																		17			
UV	Verr.	1	*vaub.*	98961	c-pa	j	30.7	6.0	6.4	0.93	5.8	6.0	0.98	1.08	1.03	26.5	9.8	20.0	0.75	0.37	1.51	0.33	0.64	37		10.0	0.38	dc
UV	Verr.	1	*vaub.*	98962	c-pa	j	30.1	6.1	6.1	1.00	4.8	5.1	0.95	1.19	1.26	25.5	10.0	17.0	0.67	0.39	1.65	0.30	0.59	34		8.0	0.31	dc
UV	Verr.	1	*vaub.*	98963	c	j	42.9	6.7	7.1	0.95	6.2	6.7	0.92	1.06	1.09	33.5	12.0	24.0	0.72	0.36	1.69	0.30	0.57	33		12.5	0.37	dc
UV	Verr.	1	*vaub.*	98964	c	vj	26.0	4.7	4.7	1.00	4.3	4.4	0.98	1.05	1.08	22.5	8.5	16.5	0.73	0.38	1.83	0.27	0.53	31		7.0	0.31	dc
UV	Verr.	1	*vaub.*	98965	pmpp	j	27.1	6.0	5.9	1.02	5.5	5.5	0.99	1.07	1.10	25.0	10.0	16.0	0.64	0.40	1.69	0.30	0.57	33		7.0	0.28	dc
UV	Verr.	1	*vaub.*	98966	pmpp	j	27.8	5.9	6.4	0.92	5.3	5.6	0.95	1.14	1.11	26.5	10.5	18.0	0.68	0.40	1.65	0.30	0.59	34		8.5	0.32	dc
UV	Verr.	1	*suborb.*	98967	c-pa	j	31.4	5.8	6.2	0.94	5.4	5.8	0.94	1.07	1.07	27.5	13.0	20.0	0.73	0.47	2.11	0.24	0.47	27		9.0	0.33	dc
UV	Verr.	1	*vaub.*	98968	c	j	31.2	6.4	6.7	0.97	5.1	5.7	0.88	1.16	1.27	27.0	10.0	18.5	0.69	0.37	1.50	0.33	0.64	37		9.5	0.35	dc
UV	Verr.	1	*vaub.*	98969	pmpp	mj	17.2	3.6	3.6	1.02	2.8	2.9	0.96	1.21	1.29	16.0	6.5	8.0	0.50	0.41	1.83	0.27	0.53	31				dc
UV	Verr.	1	*vaub.*	98970	pmpp	mj	15.7	3.8	3.8	1.02							6.5				1.73	0.29	0.56	32				dc
UV	Verr.	1	*orb.*	98971	pmpp	j	35.6	6.9	7.1	0.97						31.5	10.0	23.0	0.73	0.32	1.41	0.35	0.68	39	18	12.0	0.38	c
UV	Verr.	1	*vaub.*	98972	pmpp	j	23.1	5.4	5.5	0.99	5.0	5.4	0.93	1.03	1.09	22.0	9.5	13.0	0.59	0.43	1.72	0.29	0.56	32		7.5	0.34	dc
UV	Verr.	1	sp.	98973	f																							
UV	Verr.	1	sp.	98974	f																							
UV	Verr.	1	*suborb.*	99016	pmpp	vj	17.3	4.3	4.4	0.97							9.0				2.05	0.24	0.48	27				dc
UV	Verr.	1	*vaub.*	99017	pmpp	j	18.9	5.9	6.2	0.96							11.0				1.79	0.28	0.55	31				dc
UV	Verr.	1	sp.	99018	pa																							
UV	Verr.	1	*vaub.*	99019	pmpp	sa	42.7	9.2	10.1	0.91	8.8	9.5	0.92	1.06	1.05	35.5	15.0	25.0	0.70	0.42	1.48	0.34	0.65	37		9.0	0.25	dc
UV	Verr.	1	*suborb.*	99089	pmpp	j/sa	31.1	8.9	8.9	0.99							18.0				2.01	0.25	0.49	28				c
UV	Verr.	1	*orb.*	99090	pp	sa	24.5	10.4	11.3	0.92							12.5				1.10	0.45	0.85	49				c
UV	Verr.	1	sp.	99091	pp	vj	11.5																					
UV	Verr.	1	*vaub.*	99100	c	vj	30.2	5.1	5.0	1.01	5.0	5.2	0.96	0.97	1.02	24.0	9.0	16.0	0.67	0.38	1.80	0.28	0.54	31		9.0	0.38	dc
UV	Verr.	1	*vaub.*	99101	c-pa	j	35.4	7.5	8.1	0.93	7.7	8.1	0.95	1.00	0.97	32.0	13.5	21.0	0.66	0.42	1.66	0.30	0.58	33		11.5	0.36	dc
UV	Verr.	1	*vaub.*	99102	pmpp	a	36.3	10.2	11.8	0.87							18.0				1.53	0.33	0.63	36				dc
UV	Verr.	1	*vaub.*	99103	pmpp	vj	16.4	4.4	4.5	0.98							9.0				1.99	0.25	0.49	28				dc
UV	Verr.	1	*orb.*	99104	pmpp	j	24.8	7.3	8.0	0.92							10.5				1.32	0.38	0.72	41				c
UV	Verr.	1	*vaub.*	99105	pmpp	vj	19.6	5.5	5.1	1.08							10.0				1.96	0.25	0.50	29				dc
UV	Verr.	1	*suborb.*	99106	pp	vj	14.0	4.3	4.5	0.95							10.0				2.21	0.23	0.44	25				c
UV	Verr.	1	sp.	99107	pp	j	17.7																					
LV	Inos.	1	*orb.*	99131	pmpp	j	24.2	6.8	7.2	0.94	5.9	6.4	0.92	1.13	1.15	24.0	8.5	16.0	0.67	0.35	1.17	0.43	0.81	46				c
UV	Verr.	1	*vaub.*	99186	pmpp	a	46.3	10.6	11.2	0.94	10.5	10.5	1.00	1.07	1.01	43.5	16.5	34.5	0.79	0.38	1.47	0.34	0.66	38		16.0	0.37	d
UV	Verr.	1	*suborb.*	99187	pmpp	j/sa	42.5	8.2	9.3	0.87	8.5	8.9	0.95	1.05	0.96	37.5	19.0	28.5	0.76	0.51	2.03	0.25	0.48	28		16.0	0.43	c
UV	Verr.	1	*vaub.*	99188	pp	vj	13.2	4.8	4.8	1.00							9.0				1.89	0.26	0.52	30				dc
UV	Verr.	1	*touc.*	99189	pmpp	sa	40.5	8.7	10.1	0.87	8.7	9.2	0.95	1.10	1.00	36.5	14.5	25.0	0.68	0.40	1.44	0.35	0.67	38		12.5	0.34	dc
UV	Verr.	1	*orb.*	99190	pmpp	sa	34.8	9.2	10.7	0.86	8.8	9.3	0.94	1.15	1.05	32.0	12.0	22.0	0.69	0.38	1.12	0.45	0.84	48		11.5	0.36	c
UV	Verr.	1	*vaub.*	99191	pmpp	j/sa	28.2	7.8	8.3	0.95							13.5				1.64	0.31	0.59	34				dc
UV	Verr.	1	*suborb.*	99192	pmpp	vj	24.5	5.1	5.4	0.95							11.0				2.05	0.24	0.48	27				c
UV	Verr.	1	*suborb.*	99193	pmpp	j	23.1	6.4	7.2	0.88							15.0				2.08	0.24	0.47	27				c
UV	Verr.	1	*vaub.*	99194	pp	vj	16.6	5.7	5.7	0.99							10.0				1.74	0.29	0.56	32				dc
UV	Verr.	1	*suborb.*	99195	pmpp	mj	14.6	3.7	3.7	0.99							8.0				2.18	0.23	0.45	26				c
LV	Inos.	1	*touc.*	99247	pmpp	j/sa	27.3	8.7	10.1	0.86							16.0				1.58	0.32	0.61	35				dc
LV	Neoc.	1	*vaub.*	99258	c	sa	56.3	10.4	11.7	0.89	9.3	10.0	0.94	1.18	1.12	42.0	18.0	29.0	0.69	0.43	1.53	0.33	0.63	36	18	12.0	0.29	c
LV	Neoc.	1	*orb.*	99259	c-pa	j	40.4	8.5	9.6	0.89	8.0	8.4	0.95	1.14	1.07	27.5	9.0	20.0	0.73	0.33	0.94	0.53	0.98	56		12.0	0.44	c
LV	Neoc.	1	*vaub.*	99260	c-pa	sa	47.3	10.3	11.9	0.87	9.1	9.9	0.92	1.21	1.14	37.5	14.5	28.0	0.75	0.39	1.22	0.41	0.78	45		12.0	0.32	dc
LV	Neoc.	1	*orb.*	99261	c	vj	25.0																					c
LV	Neoc.	1	*touc.*	99262	pmpp	j	26.7	7.8	9.0	0.87							13.0				1.44	0.35	0.67	38				dc
LV	Neoc.	1	*suborb.*	99263	pmpp	vj	16.3	4.4	4.8	0.93							10.0				2.08	0.24	0.47	27				c
LV	Neoc.	1	*vaub.*	99264	pp	j	19.3	7.6	8.2	0.92							13.0				1.58	0.32	0.61	35				dc
LV	Neoc.	1	*touc.*	99300	c-pa	j	31.2	6.1	7.2	0.85	5.6	6.4	0.88	1.12	1.09	29.0	12.5	19.5	0.67	0.43	1.74	0.29	0.56	32		12.0	0.41	d
LV	Neoc.	1	*suborb.*	99301	pmpp	j	28.4	5.9	6.6	0.90	5.7	6.3	0.90	1.04	1.04	27.0	14.0	18.0	0.67	0.52	2.13	0.23	0.46	26		5.5	0.20	c
UV	Verr.	1	*orb.*	99316	pmpp	j/sa	40.8	9.4	10.2	0.93	8.1	8.2	0.98	1.24	1.16	32.5	10.5	26.0	0.80	0.32	1.03	0.49	0.90	52	18	10.0	0.31	c
UV	Verr.	1	*suborb.*	99317	pmpp	j	21.2	5.4	5.9	0.92							12.0				2.03	0.25	0.48	28				c
UV	Verr.	1	*orb.*	99318	pmpp	sa	35.8	8.8	9.7	0.91	8.8	9.0	0.97	1.07	1.00	29.0	11.0	19.0	0.66	0.38	1.14	0.44	0.83	48		10.5	0.36	c
UV	Verr.	1	*orb.*	99319	pmpp	j	26.6	8.0	8.5	0.94							12.0				1.41	0.35	0.68	39				c
UV	Verr.	1	*orb.*	99320	pmpp	j	20.8	7.0	7.7	0.91							9.0				1.16	0.43	0.81	47				c
UV	Verr.	1	*vaub.*	99321	pmpp	j	29.2	6.6	6.8	0.97	5.8	6.3	0.92	1.07	1.12	26.0	11.5	17.0	0.65	0.44	1.70	0.29	0.57	33		7.0	0.27	dc
UV	Verr.	1	*touc.*	99322	pp	vj	15.1	5.2	5.9	0.87							9.5				1.61	0.31	0.60	35				d
UV	Verr.	1	sp.	99323	pa	sa																						
UV	Verr.	1	sp.	99536	pp	j	15.1																					

21	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	ldiv	ldiat	ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
UV	Verr.	1	*orb.*	99567	pmpp	j	31.6	8.5	9.4	0.90	8.4	9.1	0.92	1.04	1.01	30.0	12.0	20.0	0.67	0.40	1.27	0.39	0.75	43		10.0	0.33	dc
UV	Verr.	1	*vaub.*	99586	c	a	64.4	11.7	12.6	0.93	11.0	11.3	0.97	1.11	1.07	50.0	17.0	38.0	0.76	0.34	1.35	0.37	0.71	41		21.0	0.42	dc
UV	Verr.	1	*vaub.*	99587	c	sa	55.2	10.5	12.0	0.88	10.1	10.7	0.95	1.12	1.04	41.0	18.0	23.0	0.56	0.44	1.50	0.33	0.64	37		14.5	0.35	dc
UV	Verr.	1	*vaub.*	99588	pmpp	j/sa	32.8	8.1	9.0	0.90	7.8	8.6	0.92	1.05	1.03	31.0	13.5	22.5	0.73	0.44	1.51	0.33	0.64	37		11.0	0.35	dc
UV	Verr.	1	*vaub.*	99589	pmpp	sa	43.0	10.0	10.4	0.97	8.9	9.2	0.97	1.13	1.13	42.0	15.5	33.0	0.79	0.37	1.49	0.33	0.65	37		17.0	0.40	dc
UV	Verr.	1	*suborb.*	99590	c	sa	50.8	10.0	10.9	0.91	9.7	10.1	0.95	1.08	1.03	40.5	19.0	26.0	0.64	0.47	1.74	0.29	0.56	32		18.0	0.44	dc
UV	Verr.	1	*vaub.*	99591	c	j	37.3	6.8	7.2	0.95	6.3	6.9	0.91	1.05	1.09	27.0	12.0	19.0	0.70	0.44	1.66	0.30	0.58	33		10.0	0.37	dc
UV	Verr.	1	*vaub.*	99592	pmpp	j	36.5	7.5	7.8	0.95						32.0	12.0	23.0	0.72	0.38	1.53	0.33	0.63	36		12.0	0.38	dc
UV	Verr.	1	*vaub.*	99593	pmpp	a	33.2	11.3	12.1	0.94							16.5				1.37	0.37	0.70	40				c
UV	Verr.	1	*vaub.*	99594	pmpp	j	26.8	6.9	7.0	0.98	6.3	6.5	0.96	1.07	1.09	21.0	12.0	15.0	0.71	0.57	1.71	0.29	0.57	33		8.5	0.40	dc
UV	Verr.	1	*vaub.*	99595	pmpp	j	26.9	5.9	6.2	0.96							10.5				1.71	0.29	0.57	33				dc
UV	Verr.	1	*orb.*	99596	pmpp	sa	28.0	9.5	10.2	0.94							12.0				1.18	0.42	0.80	46				c
UV	Verr.	1	*vaub.*	99597	pp	sa	25.0	9.4	10.0	0.94							15.5				1.55	0.32	0.62	36				dc
UV	Verr.	1	*vaub.*	99598	pp	j	18.6	6.1	6.6	0.93							11.0				1.67	0.30	0.58	33				dc
UV	Verr.	1	*vaub.*	99599	pmpp	vj	18.7	4.7	4.9	0.95							9.0				1.83	0.27	0.53	31				dc
UV	Verr.	1	sp.	99600	pp	j	14.9																					
UV	Verr.	1	sp.	99601	pp	j	15.5																					
UV	Verr.	1	sp.	99602	f																							
UV	Verr.	1	sp.	99603	f																							
UV	Verr.	1	sp.	99604	f																							
UV	Verr.	1	sp.	99605	f																							
UV	Verr.	1	sp.	99606	f																							
LV	Inos.	1	*touc.*	99649	c	j	43.4	7.0	7.9	0.89	6.7	7.1	0.95	1.12	1.05	33.5	10.5	25.5	0.76	0.31	1.33	0.38	0.72	41		12.5	0.37	d
LV	Neoc.	1	*touc.*	99760	pp	j	22.9	7.6	8.5	0.90							11.0				1.30	0.39	0.74	42				dc
LV	Inos.	1	*suborb.*	99763	c	vj	28.6	4.7	4.9	0.97	4.3	4.7	0.91	1.04	1.11	20.0	10.0	11.5	0.58	0.50	2.05	0.24	0.48	27		4.0	0.20	dc
LV	Inos.	1	sp.	99764	pmpp	j/sa	28.8																					
LV	Inos.	1	sp.	99765	pp	j	18.5																					
UV	Verr.	1	*orb.*	99770	c	sa	52.8	9.3	10.5	0.89	9.6	9.8	0.98	1.07	0.97	38.5	12.5	27.0	0.70	0.32	1.19	0.42	0.79	45		14.5	0.38	c
UV	Verr.	1	*orb.*	99771	pmpp	j/sa	33.9	9.2	10.1	0.91	7.2	7.8	0.93	1.30	1.28	32.5	11.0	27.0	0.83	0.34	1.09	0.46	0.86	49		12.0	0.37	c
UV	Verr.	1	*orb.*	99772	pmpp	j	23.4	6.4	6.4	0.99							9.0				1.41	0.36	0.68	39				c
UV	Verr.	1	*suborb.*	99773	pmpp	vj	24.8	4.8	5.0	0.96	3.9	4.4	0.90	1.15	1.23	22.0	11.0	13.0	0.59	0.50	2.19	0.23	0.45	26		5.0	0.23	dc
UV	Verr.	1	*suborb.*	99774	c	vj	29.9	5.1	5.2	0.98	4.6	4.9	0.94	1.07	1.12	25.5	10.5	13.0	0.51	0.41	2.01	0.25	0.49	28		9.0	0.35	dc
UV	Verr.	1	*vaub.*	99775	pmpp	mj	14.7	3.5	3.4	1.03	2.9	3.0	0.97	1.13	1.20	14.7	5.8	7.0	0.48	0.39	1.71	0.29	0.57	33				dc
LV	Inos.	1	sp.	99798	pmpp	j/sa	43.0																					
LV	Inos.	1	*vaub.*	99799	pmpp	j/sa	28.3	8.8	9.7	0.91							14.5				1.50	0.33	0.64	37				c
UV	Verr.	1	*vaub.*	99800	c-pa	j	29.6	6.4	7.2	0.90	6.1	6.7	0.91	1.08	1.05	25.0	11.0	18.0	0.72	0.44	1.53	0.33	0.63	36		8.0	0.32	dc
UV	Verr.	1	*orb.*	99801	pmpp	j/sa	26.5	8.4	9.1	0.92							11.0				1.21	0.41	0.79	45				c
UV	Verr.	1	*vaub.*	99802	pmpp	j	22.4	5.6	6.0	0.93							10.0				1.66	0.30	0.59	34				dc
UV	Pere.	1	sp.	99804	pmpp	j	24.7																					
LV	Neoc.	1	*suborb.*	99826	pmpp	a	50.7	12.5	13.8	0.90	12.1	12.9	0.94	1.07	1.03	44.0	22.5	30.0	0.68	0.51	1.63	0.31	0.59	34		16.0	0.36	c
LV	Neoc.	1	*touc.*	99827	c-pa	j	48.1	8.3	9.5	0.87	7.9	8.4	0.95	1.14	1.04	41.0	15.0	33.0	0.80	0.37	1.58	0.32	0.61	35		14.5	0.35	d
LV	Neoc.	1	*touc.*	99828	pmpp	sa	37.5	9.8	11.6	0.85							16.5				1.43	0.35	0.67	39				dc
LV	Neoc.	1	*touc.*	99829	pmpp	j/sa	42.0	9.6	11.1	0.86	8.5	10.4	0.82	1.08	1.13	39.0	15.5	27.0	0.69	0.40	1.39	0.36	0.69	40		9.0	0.23	dc
LV	Neoc.	1	sp.	99830	c	j	38.6																					
LV	Neoc.	1	*touc.*	99831	c-pa	j	37.6	6.6	7.7	0.86	5.8	6.5	0.90	1.19	1.13	32.0	10.5	23.0	0.72	0.33	1.37	0.37	0.70	40		11.0	0.34	d
LV	Neoc.	1	*touc.*	99832	pmpp	j/sa	37.8	8.1	9.4	0.86	7.4	8.2	0.90	1.15	1.11	34.0	15.0	22.0	0.65	0.44	1.59	0.31	0.61	35				dc
LV	Neoc.	1	sp.	99833	pmpp	sa	37.7																					
LV	Neoc.	1	*vaub.*	99834	c-pa	sa	53.7	10.6	11.9	0.89	9.4	10.1	0.92	1.17	1.13	45.0	15.0	34.0	0.76	0.33	1.26	0.40	0.75	43		19.5	0.43	dc
LV	Neoc.	1	*suborb.*	99835	pmpp	a	40.2	11.4	13.2	0.86							21.5				1.63	0.31	0.59	34				c
LV	Neoc.	1	*touc.*	99836	c-pa	j/sa	46.8	9.0	10.9	0.82	8.1	8.8	0.91	1.24	1.11	39.0	13.5	34.0	0.87	0.35	1.24	0.40	0.77	44		14.0	0.36	dc
LV	Neoc.	1	*suborb.*	99837	c-pa	j/sa	52.4	9.4	10.3	0.91	9.0	9.7	0.92	1.06	1.05	46.0	19.0	30.0	0.65	0.41	1.84	0.27	0.53	30		20.5	0.45	dc
LV	Neoc.	1	*touc.*	99838	c	sa	51.3	8.7	10.2	0.85	7.4	8.2	0.90	1.25	1.18	38.0	15.0	30.5	0.80	0.39	1.47	0.34	0.65	37		9.5	0.25	dc
LV	Neoc.	1	*touc.*	99839	pmpp	j/sa	35.8	8.2	10.1	0.82	9.0	9.6	0.94	1.05	0.91	33.5	14.0	23.0	0.69	0.42	1.39	0.36	0.69	40		10.5	0.31	dc
LV	Neoc.	1	*touc.*	99840	c	j	44.5	7.6	8.6	0.88	6.2	7.4	0.84	1.17	1.23	32.5	12.5	24.0	0.74	0.38	1.45	0.34	0.66	38		9.5	0.29	d
LV	Neoc.	1	*touc.*	99841	c	j	32.3	5.6	6.1	0.92	4.9	5.7	0.86	1.07	1.13	26.0	10.5	18.0	0.69	0.40	1.73	0.29	0.56	32		7.5	0.29	dc
LV	Neoc.	1	*touc.*	99842	c-pa	j	33.7	6.3	7.6	0.84	5.5	6.3	0.87	1.20	1.16	30.0	12.0	21.0	0.70	0.40	1.59	0.31	0.61	35		9.0	0.30	dc
LV	Neoc.	1	*vaub.*	99843	pmpp	j/sa	32.9	8.4	9.1	0.92	7.6	8.6	0.89	1.06	1.10	31.0	13.0	21.0	0.68	0.42	1.43	0.35	0.67	39				c
LV	Neoc.	1	*orb.*	99844	pmpp	sa	34.1	10.7	12.1	0.89							10.0				0.83	0.61	1.09	62				c
LV	Neoc.	1	*vaub.*	99845	pmpp	j	21.8	5.6	6.5	0.86							10.5				1.62	0.31	0.60	34				dc
LV	Neoc.	1	*touc.*	99846	pmpp	j	29.1	6.9	7.8	0.89	6.0	7.3	0.83	1.07	1.15	27.5	12.5	16.5	0.60	0.45	1.61	0.31	0.60	34		13.0	0.47	d
LV	Neoc.	1	*vaub.*	99847	pmpp	j	24.1	5.7	6.1	0.94							10.5				1.72	0.29	0.57	32				dc
LV	Neoc.	1	*touc.*	99848	pmpp	j	22.6	6.3	7.2	0.87							12.0				1.66	0.30	0.59	34				dc
LV	Neoc.	1	*touc.*	99849	pmpp	sa	33.5	8.8	10.3	0.85	8.1	9.4	0.86	1.10	1.09	31.5	16.0	19.5	0.62	0.51	1.55	0.32	0.62	36		11.0	0.35	dc
LV	Neoc.	1	*touc.*	99850	pmpp	j	23.7	6.2	6.9	0.89							10.5				1.52	0.33	0.64	36				d
LV	Neoc.	1	*suborb.*	99851	pmpp	j	24.5	6.8	7.4	0.92							14.5				1.97	0.25	0.50	29				c
LV	Neoc.	1	*vaub.*	99852	pmpp	vj	17.0	4.8	5.1	0.94							9.5				1.86	0.27	0.53	30				dc
LV	Neoc.	1	*vaub.*	99853	pp	j	20.6	7.1	7.7	0.92							12.5				1.63	0.31	0.60	34				dc
LV	Neoc.	1	*vaub.*	99854	pmpp	vj	17.6	4.6	4.8	0.96							8.0				1.68	0.30	0.58	33				dc
LV	Neoc.	1	*vaub.*	99855	pmpp	vj	14.7	3.9	4.4	0.90							7.0				1.60	0.31	0.61	35				dc
LV	Neoc.	1	*touc.*	99856	pp	j/sa	22.9	8.6	10.0	0.85							13.0				1.30	0.39	0.74	42				d
LV	Neoc.	1	*touc.*	99857	pmpp	j	23.8	7.0	8.5	0.82							14.0				1.65	0.30	0.59	34				d
LV	Neoc.	1	sp.	99858	pmpp	j	20.1																					
LV	Neoc.	1	sp.	99859	pmpp	j	31.3																					
LV	Neoc.	1	sp.	99860	f																							
LV	Neoc.	1	sp.	99861	f																							
LV	Neoc.	1	sp.	99862	f																							
LV	Neoc.	1	*touc.*	99952	pmpp	sa	35.9	8.9	10.3	0.86	8.8	9.7	0.91	1.06	1.00	35.0	14.0	29.0	0.83	0.40	1.37	0.37	0.70	40				d
LV	Neoc.	1	*vaub.*	99953	pmpp	j	23.7	7.3	8.0	0.91							11.0				1.38	0.36	0.69	40				dc
LV	Neoc.	1	*suborb.*	99954	pmpp	vj	18.9	4.4	4.9	0.91	3.9	4.4	0.89	1.10	1.12	18.0	10.0	13.0	0.72	0.56	2.06	0.24	0.48	27				d
LV	Neoc.	1	*touc.*	99955	pp	j/sa	23.0	7.7	8.9	0.87							13.0				1.46	0.34	0.66	38				d

22	Azs	nbr	sp.	no.	st.	ont.	Lrc	hp	lp	icp	ha	la	ica	lddv	ldlat	Ltp	Lpp	Ls	Ls/ltp	Lpp/Ltp	Psr	TAN apex	(INVTAN apex)*2	ap. agl.	alv. agl.	Lad	Lal	mucro
LV	Neoc.	1	*touc.*	99956	pp	j	16.8	4.9	5.6	0.87							9.0				1.60	0.31	0.60	35				d
UV	Verr.	1	*suborb.*	99957	pmpp	sa	31.1	8.3	8.4	0.99	8.1	8.3	0.98	1.01	1.02	30.0	17.0	18.0	0.60	0.57	2.02	0.25	0.49	28				c
UV	Verr.	1	*vaub.*	99958	pmpp	vj	15.8	4.5	4.1	1.10							7.5				1.85	0.27	0.53	30				dc
UV	Verr.	1	sp.	99959	section	j/sa																			18			
LV	Neoc.	1	sp.	99960	pa	a																			17			
UV	Verr.	2	sp.		f																							
UV	Verr.	4	sp.		f																							
UV	Verr.	6	sp.		f																							
UV	Verr.	7	sp.		f																							
UV	Verr.	4	sp.		f																							
UV	Verr.	7	sp.		f																							
UV	Verr.	6	sp.		f																							
UV	Verr.	9	sp.		f																							
UV	Verr.	2	sp.		f																							
UV	Verr.	3	sp.		f																							
UV	Verr.	2	sp.		f																							
LV	Inos.	15	sp.		f																							
LV	Neoc.	4	sp.		f																							
LV	Neoc.	7	sp.		f																							
LV	Pert.	3	sp.		f																							
UV	Verr.	2	sp.		pa																							

3. Plates

All the rostra presented belong to the genus *Castellanibelus*. They were collected in the Vocontian Basin (south-east France). They are shown in ventral and right lateral views, unless otherwise indicated. The pathological forms are described using the terminology of Keupp [2012]. Scale bar = 1 cm.

Plate 1. *Castellanibelus orbignyanus* [Duval-Jouve, 1841]

References		strat. position		ont.	L_{rc}	icp	Psr	ap. agl.
Figure 1	52740	UV	Verr. Az	sa	44	0.87	0.97	54°
Figure 2	39445	UV	Verr. Az	j	40	0.92	1.32	41°
Figure 3	92234	LV	Inos. Az	a	33	0.86	1.25	44°
Figure 4	93585	UV	Verr. Az	sa	42	0.87	1.02	52°
Figure 5	3257	UV	Verr. Az	sa	37	0.92	1.05	51°
Figure 6	78319	UV	Verr. Az	j	43	1.00	1.21	45°
Figure 7	38558	UV	Verr. Az	sa	46	0.89	1.00	53°
Figure 8	22150	UV	Verr. Az	sa	48	0.93	1.15	47°
Figure 9	89630	LV	Pert. Az	j	33	0.90	1.06	50°
Figure 10	39086	UV	Verr. Az	vj	28	0.98	1.57	35°
Figure 11	77950	UV	Verr. Az	j	28	0.89	0.84	61°
Atypical for its strong posterior bulging in a juvenile stage.								
Figure 12	3175	LV	Neoc. Az	j	41	0.94	1.21	45°
Figure 13	3202	UV	Verr. Az	a	53	0.90	1.01	53°
Figure 14	38951	UV	Verr. Az	j/sa	49	0.93	1.27	43°
Figure 15	22158	UV	Verr. Az	a	56	0.89	1.08	50°
Figure 16	41167	LV	Neoc. Az	a	48	0.90	0.73	68°
Close to Bayle (1878), Plate 31, Figures 9–12.								
Figure 17	93276	UV	Verr. Az	j	30	0.93	1.47	37°
Figure 18	43590	LV	Neoc. Az	mj	16	0.93	1.39	39°
Figure 19	54182	LV	Inos. Az	a	42	0.91	0.96	55°
Figure 20	54301	UV	Verr. Az	j/sa	51	0.90	0.99	53°
Figure 21	3226	UV	Verr. Az	sa	47	0.95	1.08	50°
Figure 22	5868	UV	Verr. Az	a	54	0.90	1.07	50°

Plate 1. *Castellanibelus orbignyanus* [Duval-Jouve, 1841].

Plate 2. *Castellanibelus suborbignyanus* [Toucas, 1890]

References		strat. position		ont.	L_{rc}	icp	Psr	ap. agl.
Figure 1	35283	UV	Verr. Az	vj	26	0.96	2.76	21°
Figure 2	65078	LV	Neoc. Az	vj	25	0.99	2.33	24°
Figure 3	43586	LV	Neoc. Az	j	33	0.89	2.20	26°
Figure 4	78793	UV	Verr. Az	j	37	0.94	2.10	27°
Wider anteriorly than posteriorly, V-shaped shape, atypical.								
Figure 5	91517	UV	Verr. Az	j/sa	46	0.88	2.04	28°
(5-c) dorsal view, showing the septal necks of the siphuncle.								
Figure 6	53773	LV	Neoc. Az	a	47	0.84	1.82	31°
Figure 7	78317	UV	Verr. Az	sa	48	0.94	1.85	30°
Figure 8	96460	LV	Neoc. Az	j	38	0.82	2.11	27°
Strong posterior depression, inducing a long groove, atypical.								
Figure 9	98823	UV	Verr. Az	mj	20	1.01	2.08	27°
Figure 10	54294	LV	Neoc. Az	vj	25	0.93	2.03	28°
Figure 11	38561	UV	Verr. Az	j	39	0.97	2.00	28°
Figure 12	31406	LV	Pert. Az	j	41	0.92	1.92	29°
Figure 13	38667	UV	Verr. Az	a	39	0.99	1.89	30°
Figure 14	38403	UV	Verr. Az	sa	51	0.94	1.98	28°
Figure 15	91574	UV	Verr. Az	a	59	0.90	1.80	31°
Figure 16	31027	UV	Verr. Az	sa	41	0.91	2.19	26°
Figure 17	54127	UV	Verr. Az	sa	43	0.89	1.88	30°
Figure 18	43589	LV	Neoc. Az	sa	40	0.88	1.88	30°
Figure 19	89974	LV	Neoc. Az	sa	42	0.89	2.16	26°
Reminiscent Gilliéron (1873), Plate 8, Figure 11, although more depressed.								
Figure 20	92683	LV	Pert. Az	j/sa	42	0.88	2.28	25°
Figure 21	41177	LV	Neoc. Az	sa	44	0.92	1.98	28°
Figure 22	31086	UV	Verr. Az	sa	49	0.96	1.91	29°
Figure 23	39059	LV	Inos. Az	sa	46	0.93	2.01	28°

Plate 2. *Castellanibelus suborbignyanus* [Toucas, 1890].

Plate 3. *Castellanibelus vaubellensis* [Janssen, 2018]

References		strat.	position	ont.	$\mathbf{L_{rc}}$	icp	Psr	ap. agl.
Figure 1	4924	LV	Neoc. az	mj	19	1.03	1.58	35°
Figure 2	92779	LV	Neoc. az	vj	24	0.98	1.64	34°
Figure 3	93699	LV	Neoc. az	j	44	0.90	1.47	38°
Figure 4	58076	LV	Inos. az	j	39	0.96	1.66	34°
Figure 5	30847	UV	Verr. az	a	60	0.91	1.27	43°
Figure 6	43558	LV	Neoc. az	a	59	0.86	1.24	44°
Figure 7	3211	UV	Verr. az	a	53	0.97	1.22	45°
Figure 8	35134	UV	Verr. az	vj	34	0.96	1.87	30°
Figure 9	95738	LV	Inos. az	a	44	0.90	1.30	42°
Figure 10	84740	LV	Inos. az	a	52	0.86	1.29	42°
Figure 11	84742	LV	Inos. az	vj	24	0.98	1.66	33°
Figure 12	84736	LV	Inos. az	vj	28	0.90	1.87	30°
Figure 13	88938	LV	Neoc. az	a	48	0.86	1.33	41°
Figure 14	90872	UV	Verr. az	a	59	0.94	1.21	45°
Figure 15	31028	UV	Verr. az	sa	55	0.91	1.58	35°
(15-a) dorsal view, (15-b) left lateral view								
Figure 16	95909	LV	Inos. az	j	41	0.97	1.65	34°
Figure 17	89639	LV	Pert. az	a	44	0.90	1.21	45°
Figure 18	54055	UV	Verr. az	sa	46	0.91	1.39	40°
Figure 19	43560	LV	Neoc. az	sa	54	0.89	1.44	38°
Figure 20	99586	UV	Verr. az	4	64	0.93	1.35	41°
(20-a) dorsal view, (20-b) left lateral view								

Plate 3. *Castellanibelus vaubellensis* [Janssen, 2018].

Plate 4. *Castellanibelus toucasi* sp. nv.

References		strat. position		ont.	L_{rc}	icp	Psr	ap. agl.
Figure 1	57464	UV	Verr. az	mj	21	0.89	1.58	35°
Figure 2	89650	LV	Pert. az	vj	29	0.98	1.90	29°
Figure 3	31412	LV	Pert. az	j	47	0.89	1.54	36°
Figure 4	96354	LV	Pert. az	j/sa	54	0.82	1.77	32°
Figure 5	41175	LV	Neoc. az	sa	49	0.88	1.49	37°
Figure 6	96526	LV	Neoc. az	sa/a	47	0.86	1.46	38°
Figure 7	31414	LV	Pert. az	sa/a	44	0.84	1.45	38°
Figure 8	78848	LV	Neoc. az	sa	44	0.80	1.40	39°
Figure 9	48583	LV	Pert. az	sa	37	0.90	1.61	35
Figure 10	3019	LV	Neoc. az	j	42	0.81	1.39	40°
Figure 11	89632	LV	Pert. az	vj	21	0.92	1.72	32°
Figure 12	88942	LV	Neoc. az	vj	24	0.86	1.81	31°
Figure 13	30282	LV	Pert. az	sa/a	50	0.82	1.19	46°
Figure 14	90804	LV	Pert. az	j	44	0.86	1.61	35°
Figure 15	53780	LV	Neoc. az	j	44	0.89	1.33	41°
Figure 16	54105	LV	Neoc. az	a	35	0.81	1.21	45°
		Posterior part of a very depressed adult, mucro recentred with age.						
Figure 17	96419	LV	Neoc. az	sa	50	0.81	1.10	49°
Figure 18	92680	LV	Pert. az	sa	49	0.84	1.20	45°
Figure 19	61474	LV	Pert. az	sa	48	0.91	1.32	42°
Figure 20	89637	LV	Pert. az	sa	46	0.89	1.54	36°
Figure 21	39875	LV	Neoc. az	a	53	0.89	1.11	49°
Figure 22	96353	LV	Pert. az	a	62	0.89	1.07	50°

Plate 4. *Castellanibelus toucasi* sp. nv.

Plate 5. *Castellanibelus* sp., details and malformations

References		strat.	position	ont.	L_{rc}	**Description** (details, forma aegra)
Figures 1–3	90540	UV	Verr. Az	ja	30	Longitudinal section Figure 1: Enlarged section showing: (a) primordial rostrum, (b) protoconch, (c) alveolar cavity and septa, (d) siphuncle. Figure 2: Enlarged detail showing the disjointed septal necks at the siphuncle passage. Figure 3: Left side view of the specimen, enlarged ×1.5.
Figures 4–6	92617	LV	Inos. Az	j	36	Transversal section Figure 4: *Castellanibelus orbignyanus*, icp = 0.96; Psr = 1.22, ap. angle = 45° Figure 5: Opening of the alveolar cavity showing the siphuncle opposite the groove. Figure 6: Enlarged detail: (a) ventral siphuncle; (b) dorsal groove.
Figure 7	3024	LV	Pert. Az	j/ja	37	forma aegra *hamata* Lateral right view: deviation of the apex on the ventral side, hook-shaped.
Figure 8	38941	UV	Verr. Az	—	31	forma aegra *clavata* Shortened rostrum in the shape of a stick.
Figure 9	30660	UV	Verr. Az	ja	28	forma aegra *bullata* Bubble-like protuberance; (c): 3/4 view.
Figure 10	77951	UV	Verr. Az	a	65	forma aegra *dissulcata* Ventrally deviated alveolar groove: (a) dorsal view; (b) right lateral view; (c) ventral view showing the groove; (d) ventral view from 3/4.
Figures 11–12	35064	UV	Verr. Az	a	27	f. a. *clavata-collata?* Figure 11: Atypical rod-shaped shape, possible exit channel under the mucro Figure 12: Enlarge detail
Figures 13–14	53779	LV	Neoc. Az	j	33	Ventral granulation Figure 13: (a–b) *Castellanibelus suborbignyanus* icp = 0.89; Psr = 2.13; ap. angle = 26°; (c) ventral side showing granular zone in protoconch area. Figure 14: Enlarged detail of the granulations.
Figure 15	78040	LV	Neoc. Az	j	26	forma aegra *angulata* Forms an angle following a fracture.
Figure 16	79696	LV	Inos. Az	ja	28	forma aegra *saepia* Doubled apex; (a) dorsal view; (b) 3/4 right lateral view.
Figures 17–18	39093	UV	Verr. Az	j	30	f. aegra *angulata-manca* Figure 17: *Castellanibelus suborbignyanus* (a–b) dorsal and right lateral views; (c–d) ventral and left lateral views. Figure 18: Enlarged detail of the apical part, showing the partial deposition.
Figure 19	5214	UV	Verr. Az	a	54	oldest form *Castellanibelus orbignyanus* (icp = 0.91; Psr = 1.07; ap. angle = 50°); very old adult, conical shape: the anterior growth continued while the posterior growth slowed down strongly.

Plate 5. *Castellanibelus* sp., details and malformations.