

Neutral Species	Neutral Scale Height (km)	Range of Neutral Density at 400 km (cm ⁻³)	Photoionization Lifetime (s)	Expected count rate at 400 km
Н	1160 (1330)	^a 4 × 10 ⁻² – 200	5.1 × 10 ⁶	1000 - Maximum
He	500 (330)	$a^{a}5 - 2 \times 10^{4}$	1.7 × 10 ⁶	
Li	190	^b 8 × 10 ⁻⁴ – 4	4.1×10^{2}	
С	96	°3 × 10 ⁻¹ – 1600	2.6×10^{4}	
N	83	°1 × 10 ⁻¹ – 500	5 × 10⁵	
0	72 (83)	^a 3 × 10 ⁻¹ – 1600	5 × 105	
Ne	58	^c 2 × 10 ⁻² – 80	5.6 × 10⁵	
Na	50	$^{f}3 \times 10^{-2} - 140$	5.8×10^{3}	
Mg	480	^d 3.5 - 8 × 10 ³	7.2×10^{4}	
Al	430	$^{d}2.5 \times 10^{-1} - 500$	1.6 × 10⁵	
Si	414	^d 1 – 2000	1.6 × 10⁵	
S	36	$^{\text{b}}2 imes 10^{-1} - 900$	8.9×10^{3}	
CI	330	°1 × 10 ⁻³ – 1.5	1.6 × 10⁵	
Ar	290	^e 3 × 10 ⁻² – 140	3 × 105	
Са	290	$^{g}1 \times 10^{-2} - 20$	1.6 × 10⁵	
Fe	210	^d 5 × 10 ⁻² – 100	$2.3 imes 10^4$	
Ni	200	°5 × 10 ⁻³ – 10	1.6×10^{3}	Detection Limit
Kr	140	^c 4 × 10 ⁻² – 80	1.6 × 10⁵	
Xe	90	°1 × 10 ⁻¹ – 220	6.2×10^{4}	
H ₂	600	°10 - 10,000	1.7 × 10 ⁶	00.1
OH	68	^d 8 × 10 ⁻³ – 40	3.8 × 10⁵	H H2 He C N O OH Ne NaMg Al Si S Ar Ca Fe Ni Kr Xe