







<ul> <li>experienced by CHAMP</li> <li>Ion temperature was not available. IRI2001 indicates that this is nearly constant around 770K</li> </ul>								
C250	Те	Ti	ni=ne density	Sun/ Eclipse	Sun direction	Phi (V)		
Case	(K)	(K)	(////0)					
A	<b>(K)</b> 994	( <b>K</b> ) 770	2.74x10 <sup>11</sup>	Sunlit	+y	-1.106		
A B	( <b>K)</b> 994 1984	( <b>K</b> ) 770 770	2.74x10 <sup>11</sup> 8.64x10 <sup>11</sup>	Sunlit Sunlit	+y +y	-1.106 -1.002		



<ul> <li>i.e. floating potential was dominated by ion ram and thermal electron collection – photo-emission was of minor importance.</li> <li>all floating potentials were negative</li> </ul>						
Case	Те (К)	Ті (К)	lon density (ions/m3)	Obs. (V)	SPIS (V)	
٨	004	770	2 74×1011	1 106	0.240	
۹ ٦	994 1984	770	2.74X10 <sup>11</sup> 8.64x10 <sup>11</sup>	-1.100	-0.340 -0.685	
0	1719	770	4.46x10 <sup>11</sup>	-0.863	-0.612	
, SPI	IS simul	ated po	tentials less neg	ative than	observations	













![](_page_6_Figure_1.jpeg)

![](_page_7_Figure_0.jpeg)

IVIIOIIIIEIIL	photoer	mission	Plate m	2				Potentia 0.0
	Yes		0.14					
	Yes		0.065		A.S.			- 7
	Yes		0.11					-3
) Yes			0.06					Ĭ
A		Yes		0.35	0.35		-0.25	
Eniviron	ment	photoem	nission	Plate m2		Poter	ntial (V)	
A		Yes Yes Yes		0.125	0.125 0.05 0.01		-0.23 -0.24 -0.25 -0.4	
Δ				0.05				
				0.01				
A		Yes		0.01		-0.4		
A		Yes		0.01		-0.4	<u> </u>	
A A		Yes		0		-0.4	2	
A A Eniviron	ment	Yes Yes photoem	iission	0.01 0 Plate m2	Resistar Ohms/so	-0.4 -0.42	Potential	
A A Eniviron	ment	Yes Yes photoem Yes	iission	0.01 0 Plate m2 0.125	Resistar Ohms/so 200	-0.4 -0.42 nce quare	Potential	
A A Eniviron A A	ment	Yes Yes photoem Yes Yes	iission	0.01 0 Plate m2 0.125 0.125	Resistar Ohms/so 200 800	-0.4 -0.42 nce quare	Potential -0.25 -0.25	
A A Eniviron A A A	ment	Yes Yes photoem Yes Yes Yes	iission	0.125 0.125 0.125	Resistar Ohms/so 200 800 2.0E3	-0.4 -0.42	Potential -0.25 -0.25 -0.27	

![](_page_8_Figure_0.jpeg)

![](_page_8_Picture_1.jpeg)