Constants Used in the HB Calibration process

(Final Version: 2/25/00)

K_{GC1}	0.0404	
K_{GC2}	0.0348	
K_{GC3}	0.0373	
K_{UC1}	0.0327	
K_{UC3}	0.0293	
$m_{\odot_{OH}}$	+1.791	
$m_{\odot_{NH}}$	+1.188	
$m_{\odot_{UC}}$	+1.101	
$m_{\odot_{CN}}$	+1.031	
$m_{\odot_{C3}}$	+0.497	
$m_{\odot_{CO+}}$	+0.338	
$m_{\odot_{BC}}$	0.000	
$m_{\odot_{C2}}$	–0.423	
$m_{\odot_{GC}}$	–0.507	
$m_{\odot_{H2O+}}$	–1.249	
$m_{\odot_{RC}}$	–1.276	
$F_{O_{OH}}$	1.056e-8	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{NH}}$	8.420e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{UC}}$	7.802e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{CN}}$	8.6 e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{C3}}$	8.160e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{CO+}}$	7.323e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{BC}}$	6.210e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{C2}}$	3.887e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{GC}}$	3.616e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{H2O+}}$	1.380e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$F_{O_{RC}}$	1.316e-9	ergs sec^{-1} cm^{-2} Å^{-1}
$\gamma_{OH/OH}$	1.698e-2	
$\gamma_{NH/NH}$	1.907e-2	
$\gamma_{CN/CN}$	1.812e-2	
$\gamma_{C3/C3}$	3.352e-3	
$\gamma_{CO+/CO+}$	1.549e-2	
$\gamma_{C2/C2}$	5.433e-3	
$\gamma_{H2O+/H2O+}$	5.424e-3	
$\gamma_{NH/C3}$	1.433e-5	
$\gamma_{CN/C3}$	1.427e-3	
$\gamma_{CO+/C3}$	4.607e-4	
q_{UC}	2.716e17	
q_{BC}	1.276e17	
q_{GC}	1.341e17	
q_{RC}	1.975e17	

Constants Used in the HB Calibration process
(continued)

Coeff.	B star	G Star	Comet Pure OH	Comet 25% cont.
Rayleigh				
b_1	1.159	1.158	1.170	1.168
b_2	–4.433E-4	–5.359E-4	—	–1.918E-4
Ozone				
c_{00}	1.323E-2	2.880E-2	—	–2.523E-2
c_{01}	–1.605E-1	–3.912E-1	—	4.382E-1
c_{02}	4.258E-1	1.597	—	–2.415
c_{03}	9.099E-1	–7.460E-1	—	4.993
c_{10}	–1.731E-2	–5.284E-2	–1.669E-3	4.276E-2
c_{11}	3.273	3.753	3.365	2.5378
c_{12}	–2.815E-1	–2.632	–2.973E-2	4.109
c_{13}	–2.221	8.912E-1	—	–8.518
c_{20}	5.349E-3	2.634E-2	3.521E-4	–2.510E-2
c_{21}	–5.031E-2	–3.380E-1	–6.662E-3	4.148E-1
c_{22}	–4.182E-1	8.699E-1	–5.335E-2	–2.405
c_{23}	1.649	4.253E-2	—	4.666
c_{30}	2.810E-4	–3.141E-3	—	5.070E-3
c_{31}	–1.195E-2	3.359E-2	—	–8.168E-2
c_{32}	1.063E-1	–9.235E-2	—	4.272E-1
c_{33}	–3.877E-1	–1.677E-1	—	–8.618E-1