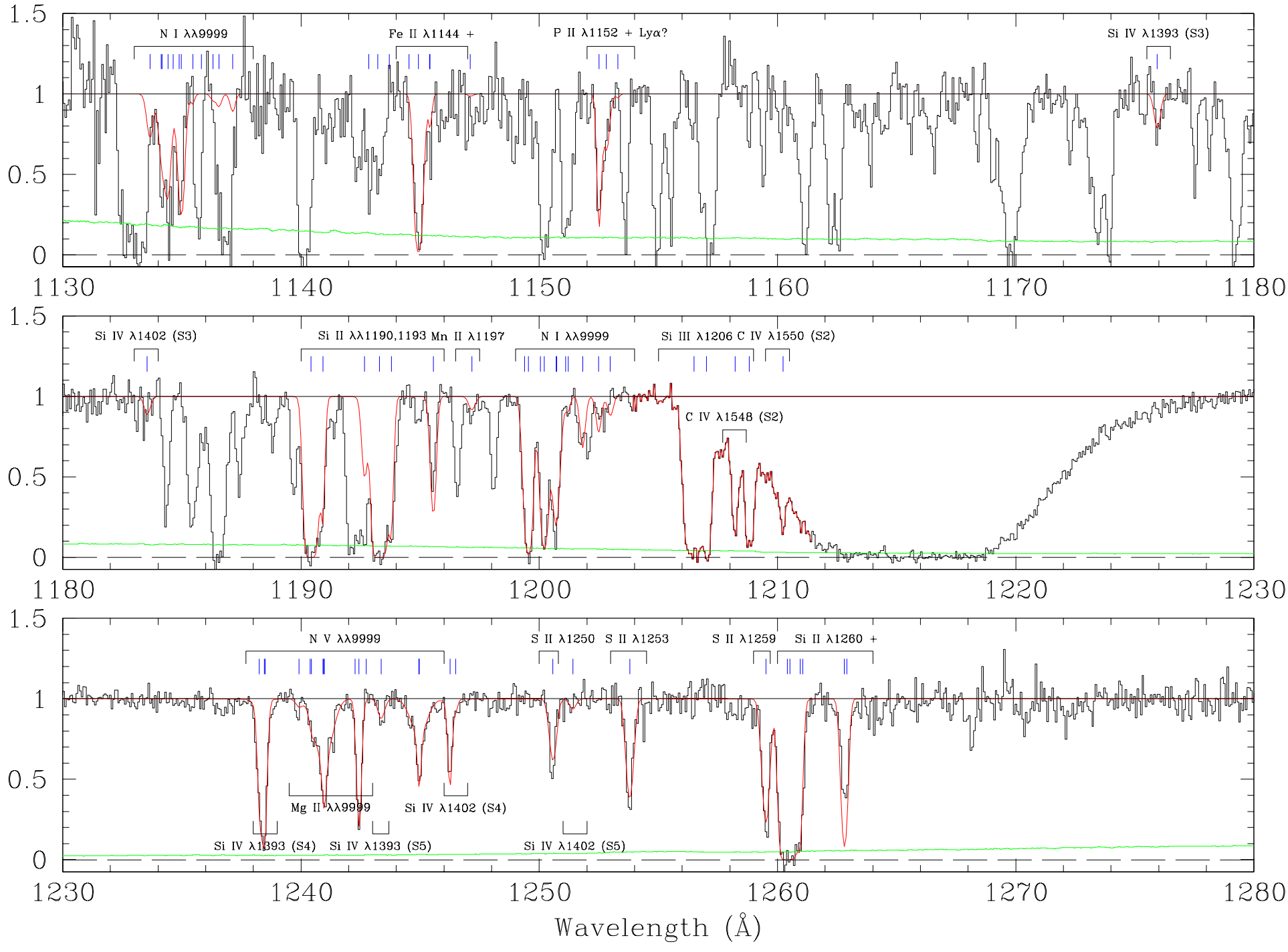
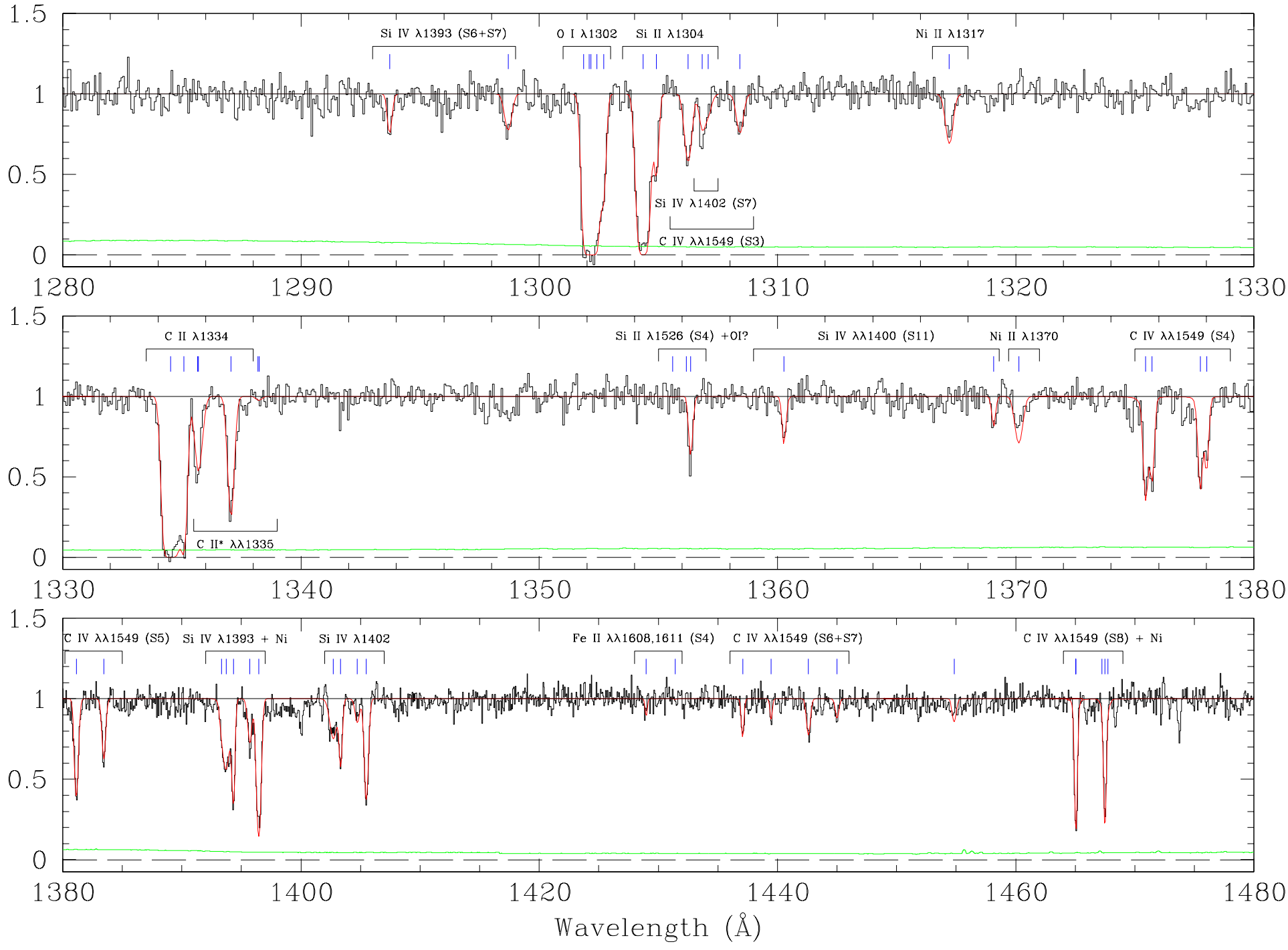
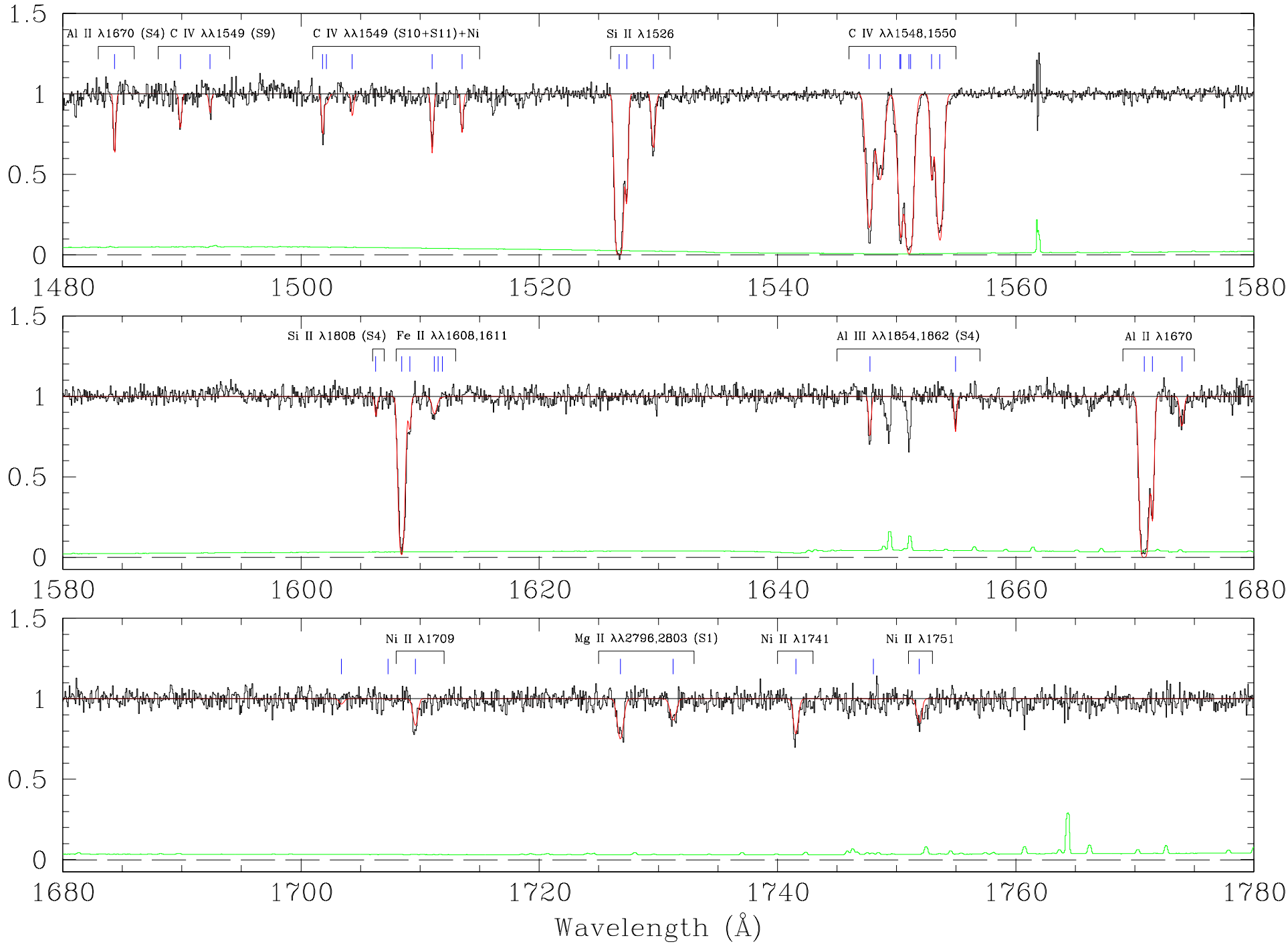
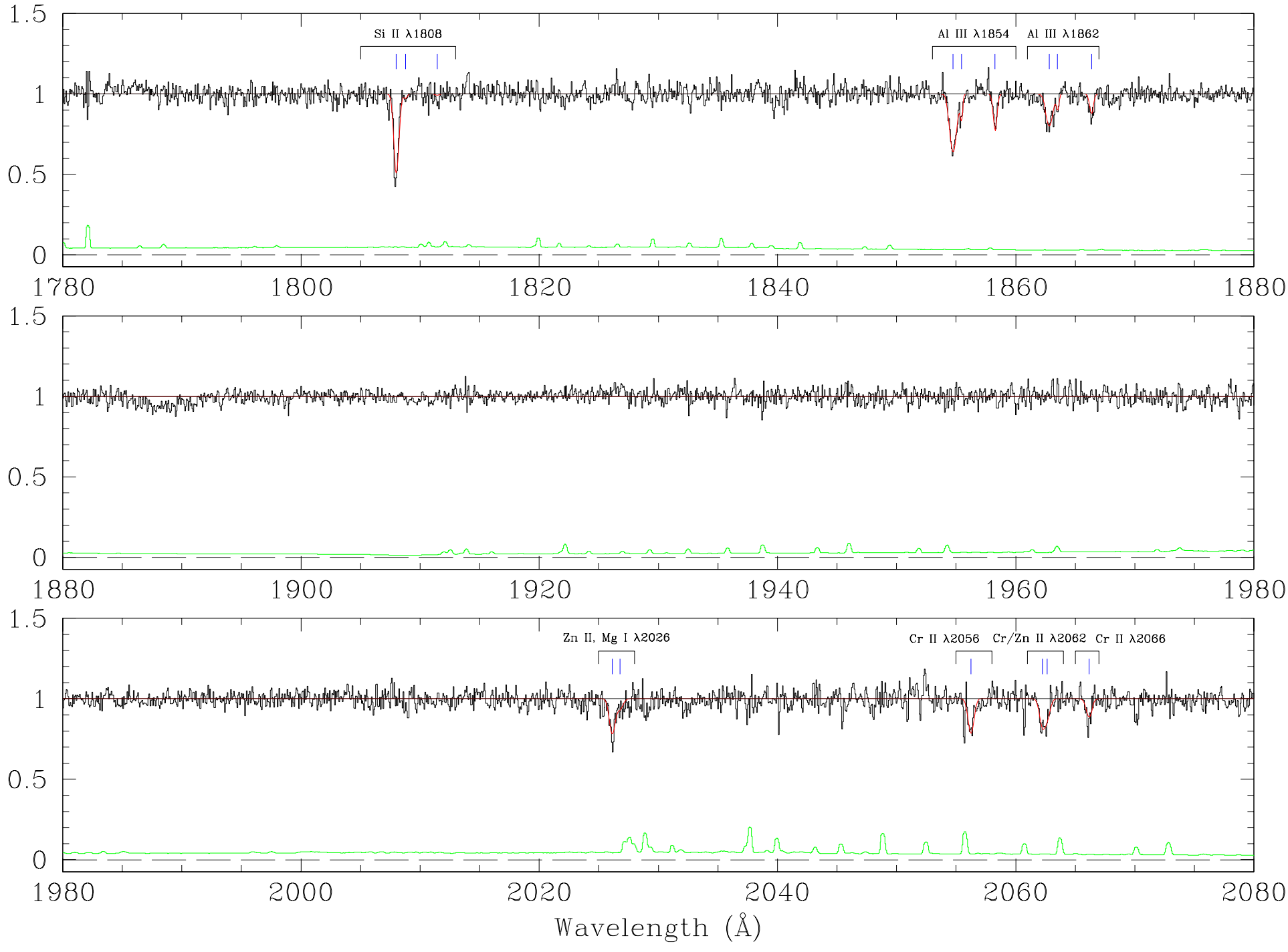
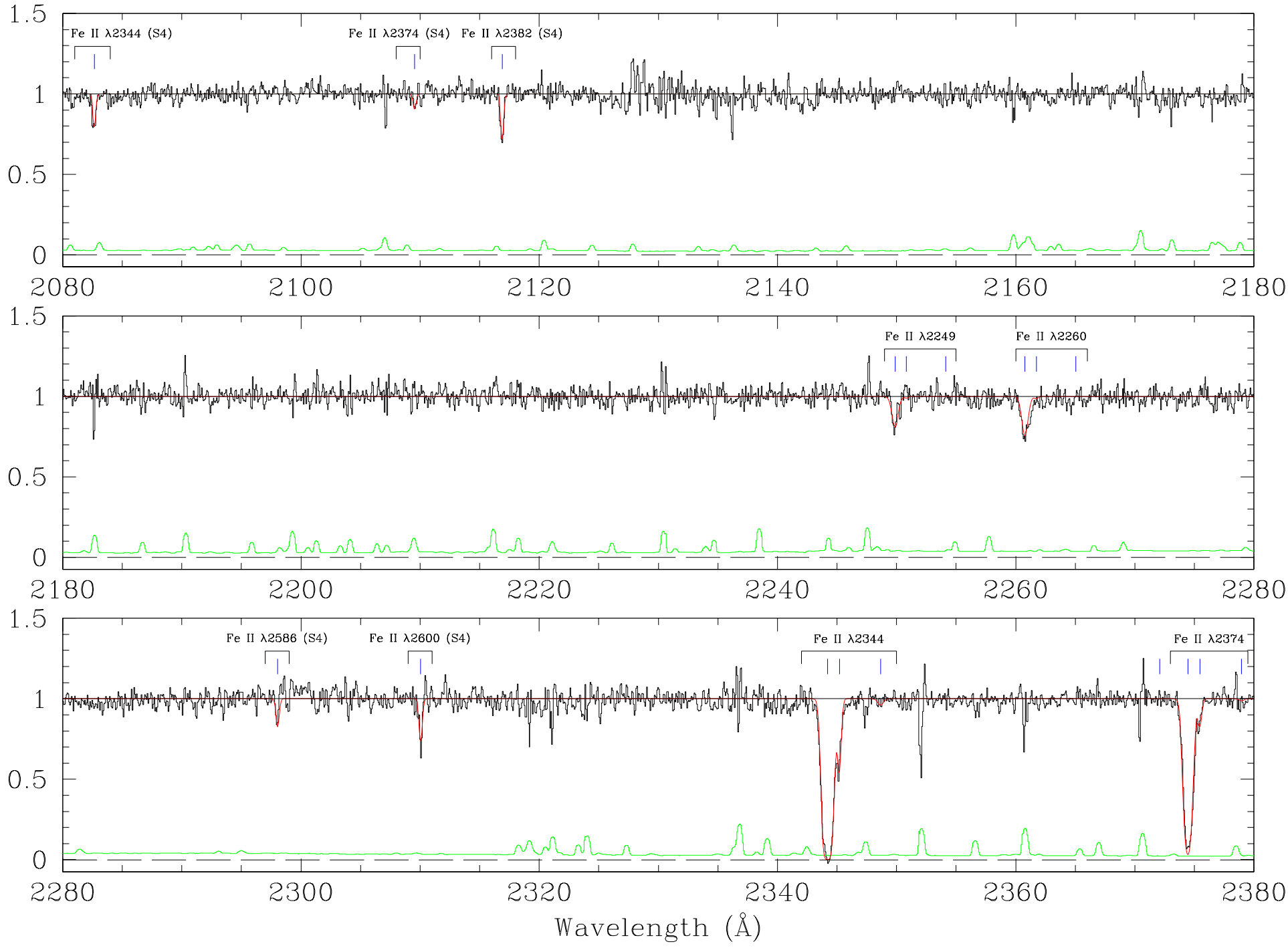
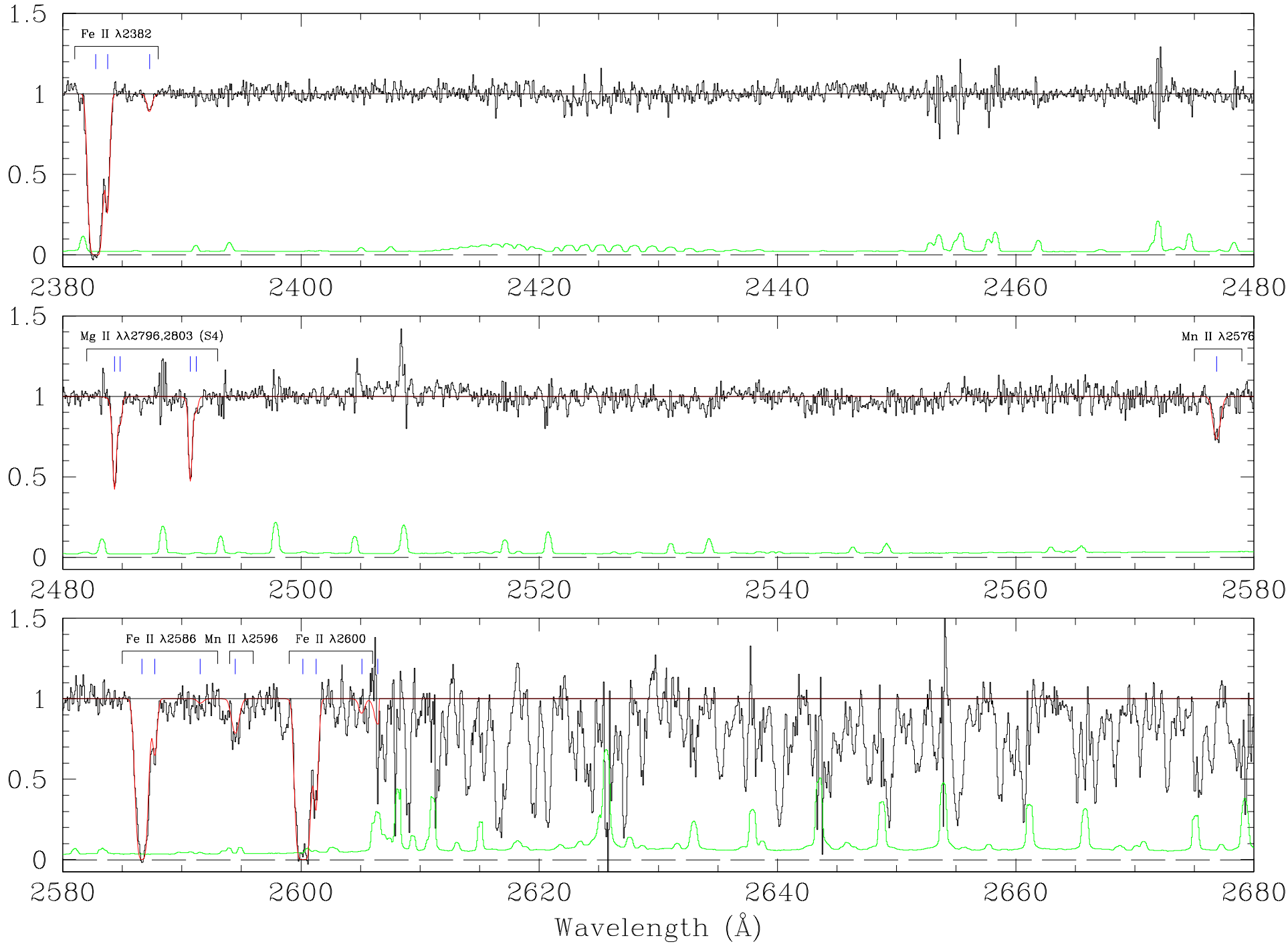

N I λλ9999
Fe II λ1144 +
P II λ1152 + Lyα?
Si IV λ1393 (S3)
Si IV λ1402 (S3)
Si II λλ1190,1193 Mn II λ1197
N I λλ9999
Si III λ1206 C IV λ1550 (S2)
C IV λ1548 (S2)
N V λλ9999
S II λ1250
S II λ1253
S II λ1259
Si II λ1260 +
Mg II λλ9999
Si IV λ1402 (S4)
Si IV λ1393 (S4)
Si IV λ1393 (S5)
Si IV λ1402 (S5)
1.5
1
0.5
0
1130
1140
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
Wavelength (Å)

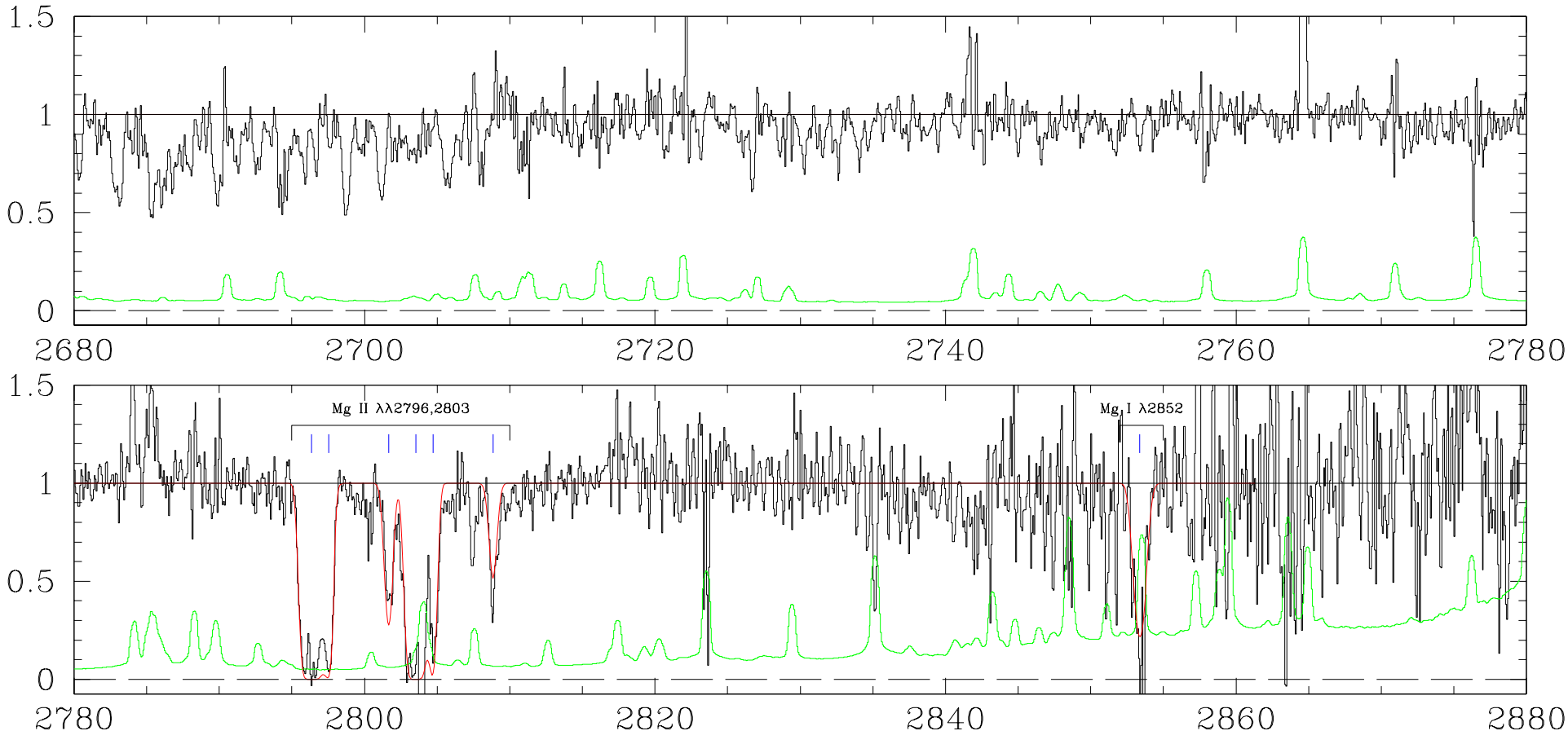

Si IV λ1393 (S6+S7)
O I λ1302
Si II λ1304
Ni II λ1317
Si IV λ1402 (S7)
C IV λλ1549 (S3)
C II λ1334
Si II λ1526 (S4) +OI?
Si IV λλ1400 (S11)
Ni II λ1370
C IV λλ1549 (S4)
C II* λλ1335
C IV λλ1549 (S5)
Si IV λ1393 + Ni
Si IV λ1402
Fe II λλ1608,1611 (S4)
C IV λλ1549 (S6+S7)
C IV λλ1549 (S8) + Ni
1.5
1
0.5
0
1280
1290
1300
1310
1320
1330
1340
1350
1360
1370
1380
1400
1420
1440
1460
1480
Wavelength (Å)


Al II λ1670 (S4) C IV λλ1549 (S9)
C IV λλ1549 (S10+S11)+Ni
Si II λ1526
C IV λλ1548,1550
Si II λ1808 (S4)
Fe II λλ1608,1611
Al III λλ1854,1862 (S4)
Al II λ1670
Ni II λ1709
Mg II λλ2796,2803 (S1)
Ni II λ1741
Ni II λ1751
1.5
1
0.5
0
1480
1500
1520
1540
1560
1580
1600
1620
1640
1660
1680
1700
1720
1740
1760
1780
Wavelength (Å)


Si II λ1808
Al III λ1854
Al III λ1862
Zn II, Mg I λ2026
Cr II λ2056
Cr/Zn II λ2062
Cr II λ2066
1.5
1
0.5
0
1780
1800
1820
1840
1860
1880
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
Wavelength (Å)


Fe II λ2344 (S4)
Fe II λ2374 (S4)
Fe II λ2382 (S4)
Fe II λ2249
Fe II λ2260
Fe II λ2586 (S4)
Fe II λ2600 (S4)
Fe II λ2344
Fe II λ2374
1.5
1
0.5
0
2080
2100
2120
2140
2160
2180
2200
2220
2240
2260
2280
2300
2320
2340
2360
2380
Wavelength (Å)


Fe II λ2382
Mg II λλ2796,2803 (S4)
Mn II λ2576
Fe II λ2586
Mn II λ2596
Fe II λ2600
1.5
1
0.5
0
2380
2400
2420
2440
2460
2480
2500
2520
2540
2560
2580
2600
2620
2640
2660
2680
Wavelength (Å)


1.5
1
0.5
0
2680
2700
2720
2740
2760
2780
Mg II λλ2796,2803
Mg I λ2852
2780
2800
2820
2840
2860
2880