

Rest Wavelength ( $\text{\AA}$ )

2000

SDSS J005419.99+002728.0  
z=2.51864

SDSS 2000-09-25 t=0.0

SDSS 2000-11-21 t=16.1

SDSS 2000-12-23 t=25.2

SDSS 2008-11-25 t=847.7

BOSS 2010-10-12 t=1042.7

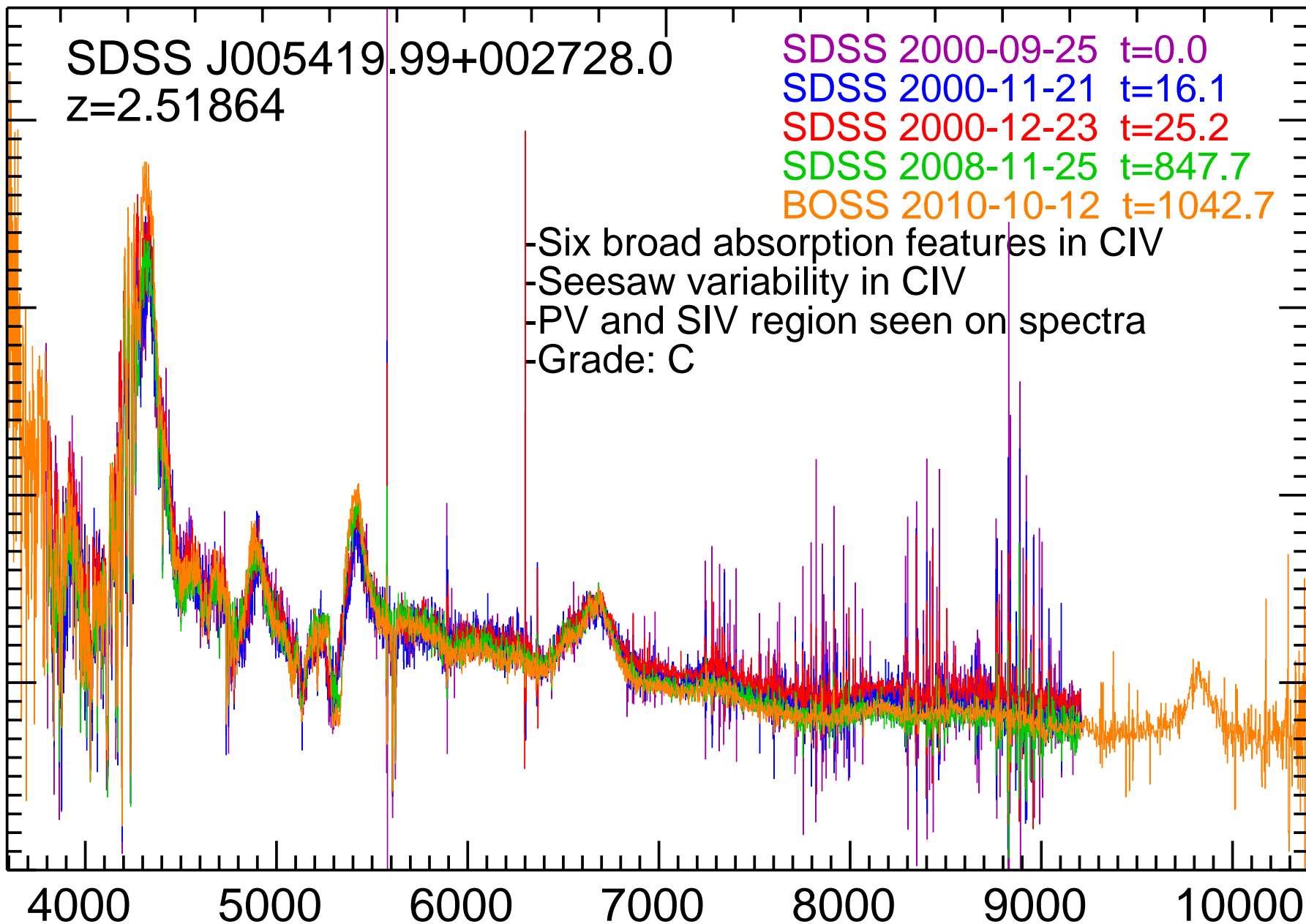
- Six broad absorption features in CIV
- Seesaw variability in CIV
- PV and SIV region seen on spectra
- Grade: C

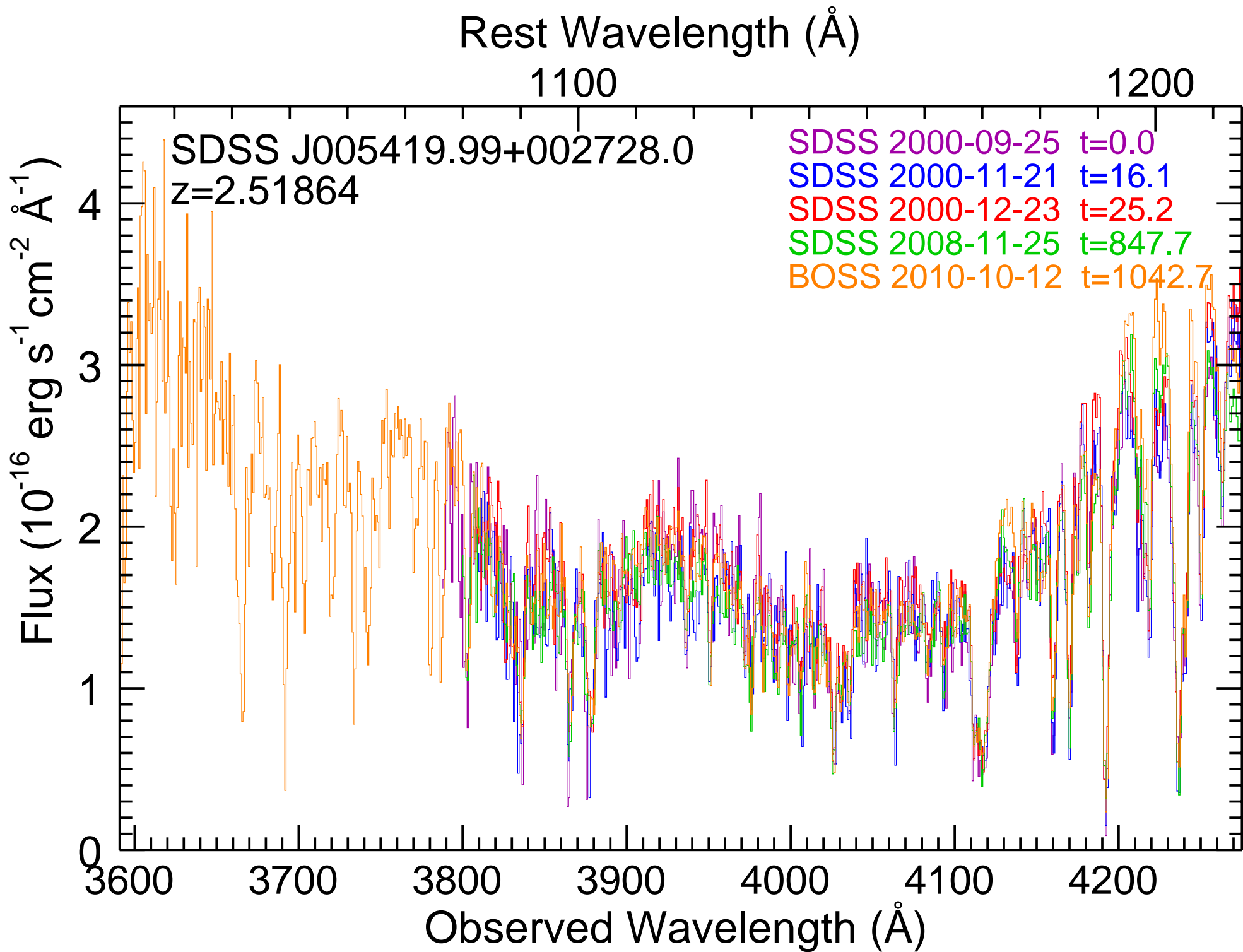
Flux ( $10^{-16} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

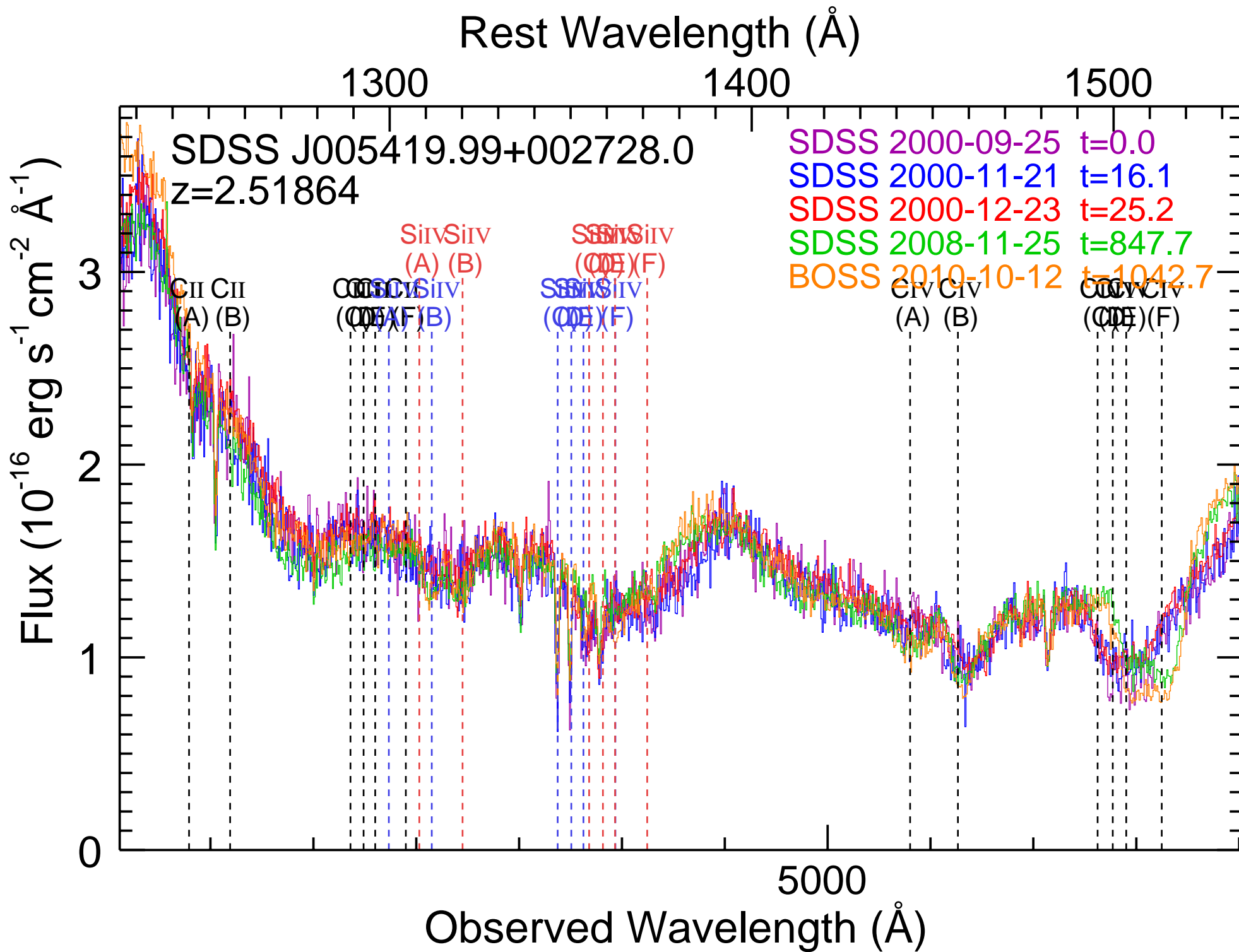
4  
3  
2  
1  
0

4000 5000 6000 7000 8000 9000 10000

Observed Wavelength ( $\text{\AA}$ )







Rest Wavelength ( $\text{\AA}$ )

1500

SDSS J005419.99+002728.0  
 $z=2.51864$

SDSS 2000-09-25  $t=0.0$   
SDSS 2000-11-21  $t=16.1$   
SDSS 2000-12-23  $t=25.2$   
SDSS 2008-11-25  $t=847.7$   
BOSS 2010-10-12  $t=1042.7$

Flux ( $10^{-16} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

3  
2  
1  
0

CIV  
(A)

CIV  
(B)

CIV  
(C)

CIV  
(D)

CIV  
(E)

CIV  
(F)

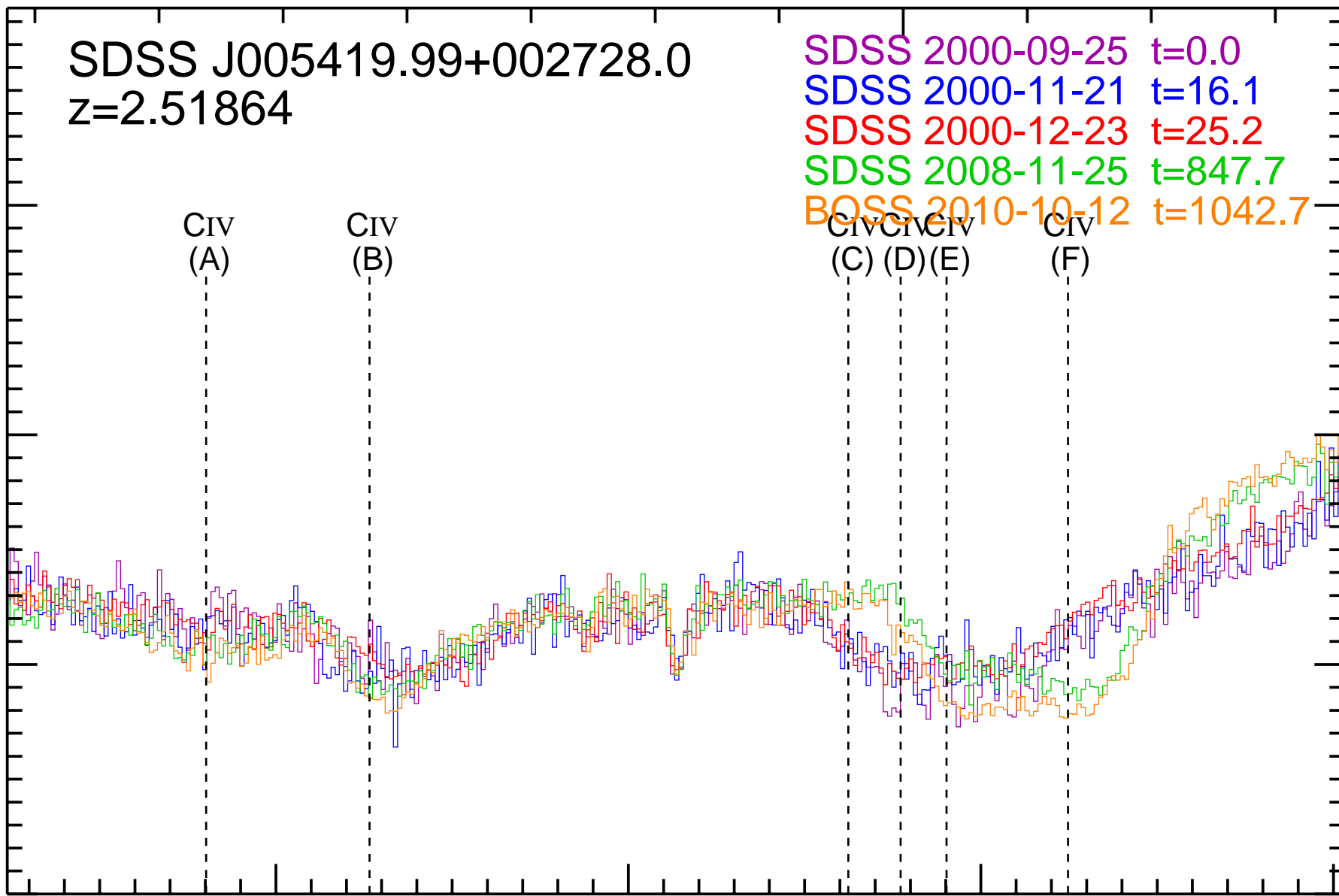
5100

5200

5300

5400

Observed Wavelength ( $\text{\AA}$ )



Rest Wavelength ( $\text{\AA}$ )

1300

SDSS J005419.99+002728.0  
z=2.51864

SDSS 2000-09-25 t=0.0  
SDSS 2000-11-21 t=16.1  
SDSS 2000-12-23 t=25.2  
SDSS 2008-11-25 t=847.7  
BOSS 2010-10-12 t=1042.7

Flux ( $10^{-16} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

3  
2  
1  
0

4600

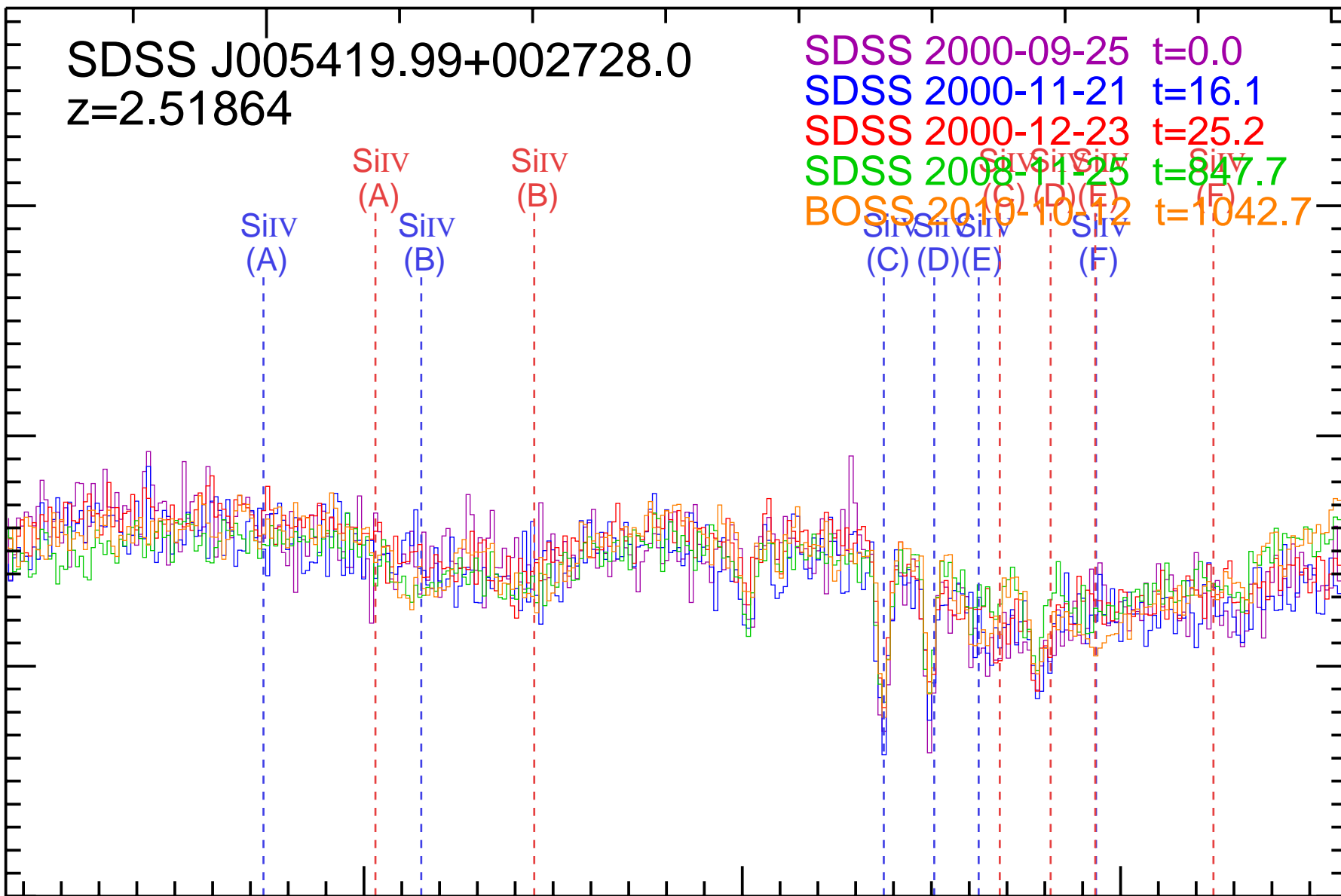
4700

4800

Observed Wavelength ( $\text{\AA}$ )

SiIV (A) SiIV (B) SiIV (A) SiIV (B)

SiIV (C) SiIV (D) SiIV (E) SiIV (F)



Rest Wavelength ( $\text{\AA}$ )

1800

SDSS J005419.99+002728.0  
z=2.51864

SDSS 2000-09-25 t=0.0  
SDSS 2000-11-21 t=16.1  
SDSS 2000-12-23 t=25.2  
SDSS 2008-11-25 t=847.7  
BOSS 2010-10-12 t=1042.7

Flux ( $10^{-16} \text{ erg s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

3  
2  
1  
0

AlIII (A) AlIII (B)  
AlIII (A) AlIII (B)

AlIII (C) AlIII (D) AlIII (E) AlIII (F)

6100 6200 6300 6400

Observed Wavelength ( $\text{\AA}$ )

