

SDSS_J1105+1512_MJD56017

Rest Wavelength (Å)

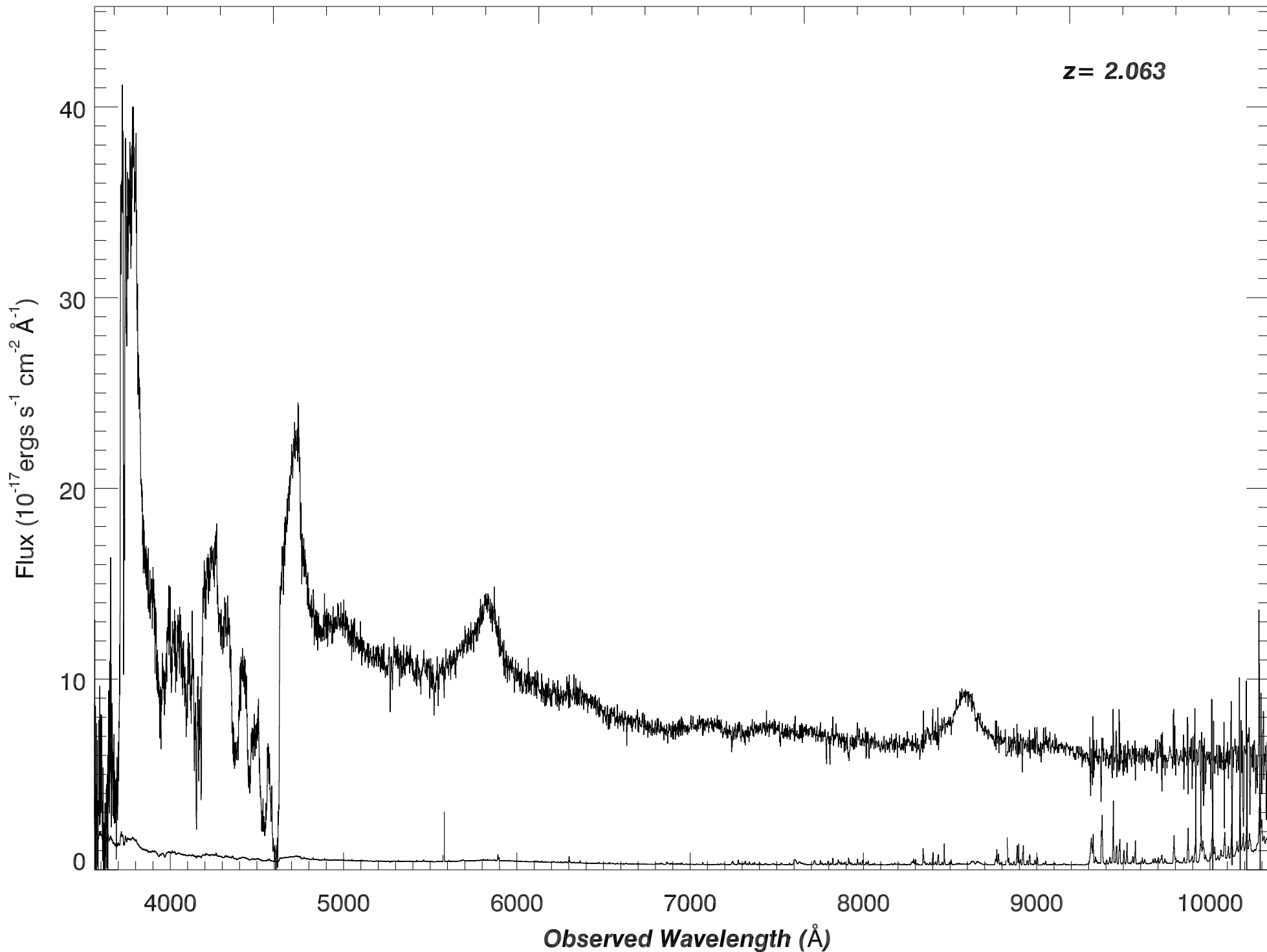
1500

2000

2500

3000

z = 2.063



SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

1200

1250

1300

1350

1400

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

50
40
30
20
10
0

$z = 2.063$
 $z = 1.9786$

-2
-1
0
1

3600

3800

4000

4200

Observed Wavelength (\AA)

Si III 1207 0.0

Si III 1207 0.0

Si III 1207 0.0

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Si III 1207 0.0

Si III 1207 0.0

SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

1400

1450

1500

1550

1600

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

30

25

20

15

10

5

0

$z=1.9786$ $z=2.063$

-2

-1

0

1

C IV 1548 1.7783

C IV 1551 1.7783

C IV 1548 1.8228

C IV 1551 1.8228

C IV 1548 1.8779

C IV 1551 1.8779

Fe II 1608 1.7783

Fe II 1608 1.8228

C IV 1548 1.9357

C IV 1551 1.9357

Si III* 1533 0.3

Si II 1527 0.0

C IV 1548 1.9697

C IV 1551 1.9697

C IV 1548 0.031

C IV 1551 0.031

C IV 1551 0.0

C IV 1608 1.8779

Al III 1671 1.7783

Al III 1671 1.8228

Al III 1671 1.8779

Al III 1671 1.9357

Al III 1671 0.0

C I 1560 0.0

Al III 1671 1.8228

Fe II 1608 1.9357

Fe II 1608 0.0

Fe II 1608 1.9731

Al III 1671 1.8779

Al III 1671 1.9357

Al III 1671 1.9731

Al III 1671 0.0

C I 1657 0.0

Al III 1671 1.9697

Al III 1671 1.9731

Al III 1671 0.0

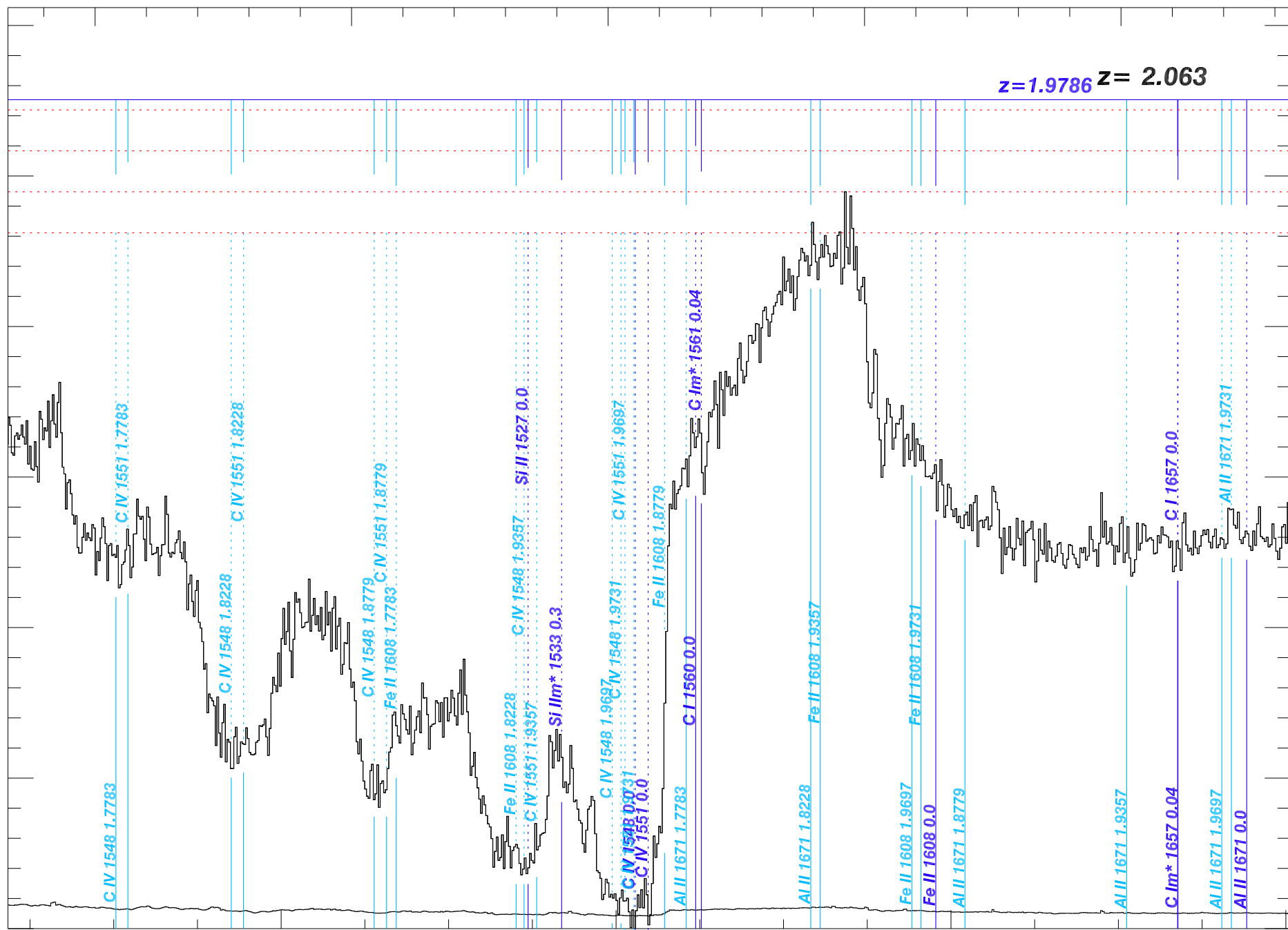
4400

4600

4800

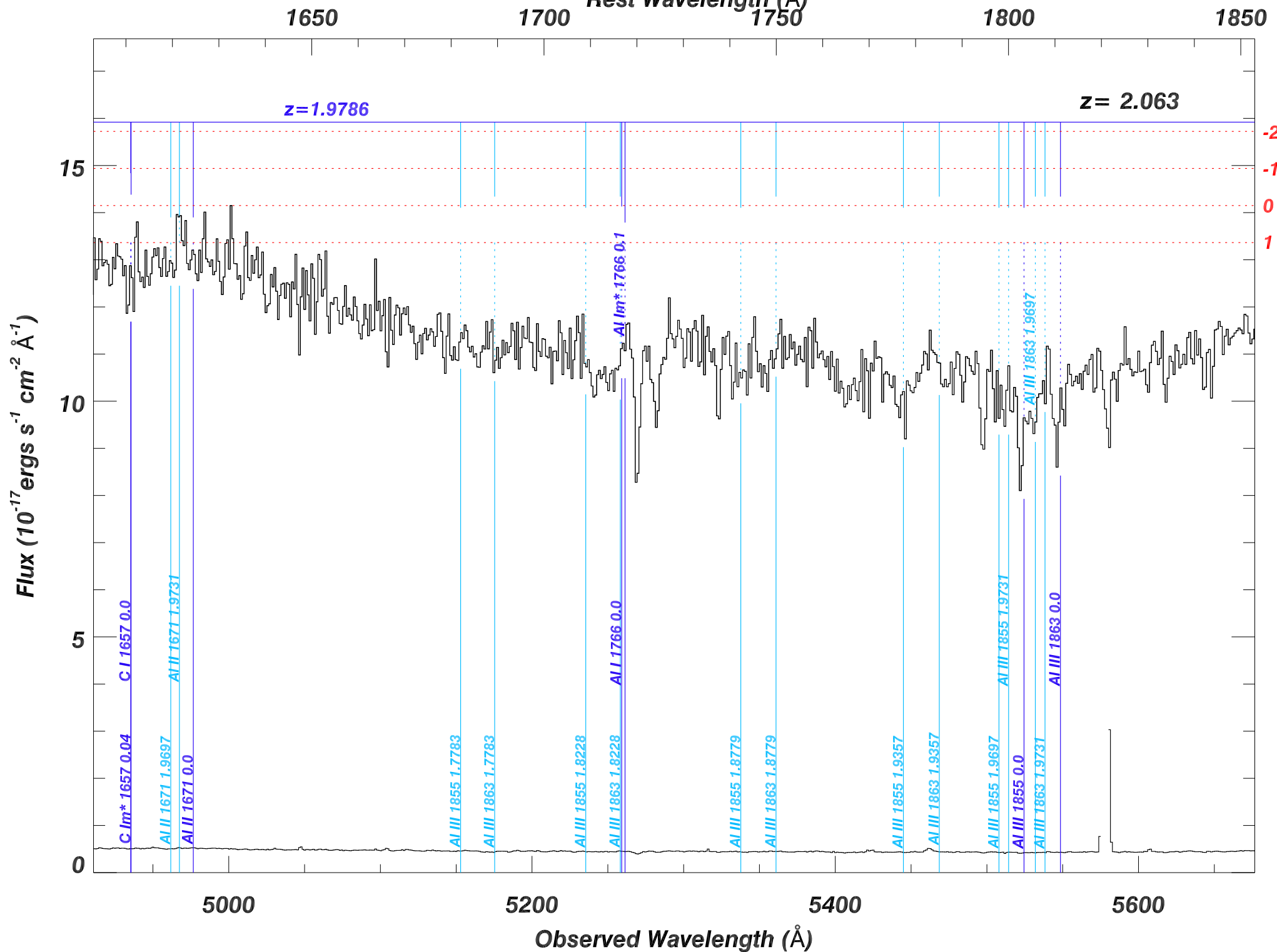
5000

Observed Wavelength (\AA)



SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)



SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

1850

1900

1950

2000

2050

$z = 1.9786$

$z = 2.063$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

15

10

5

0

-2

-1

0

1

Al I 1932 0.0

Al I m* 1936 0.1

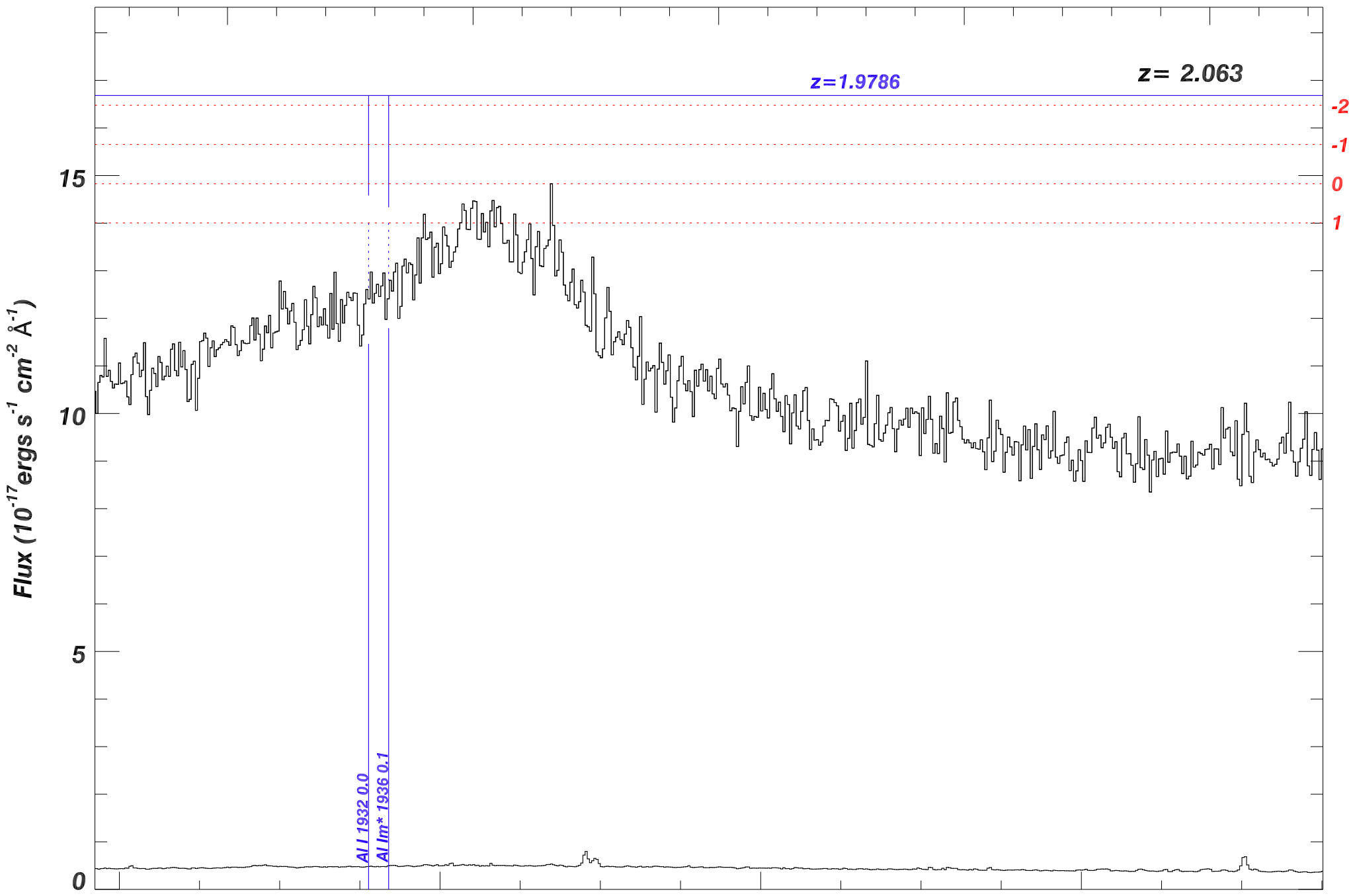
5600

5800

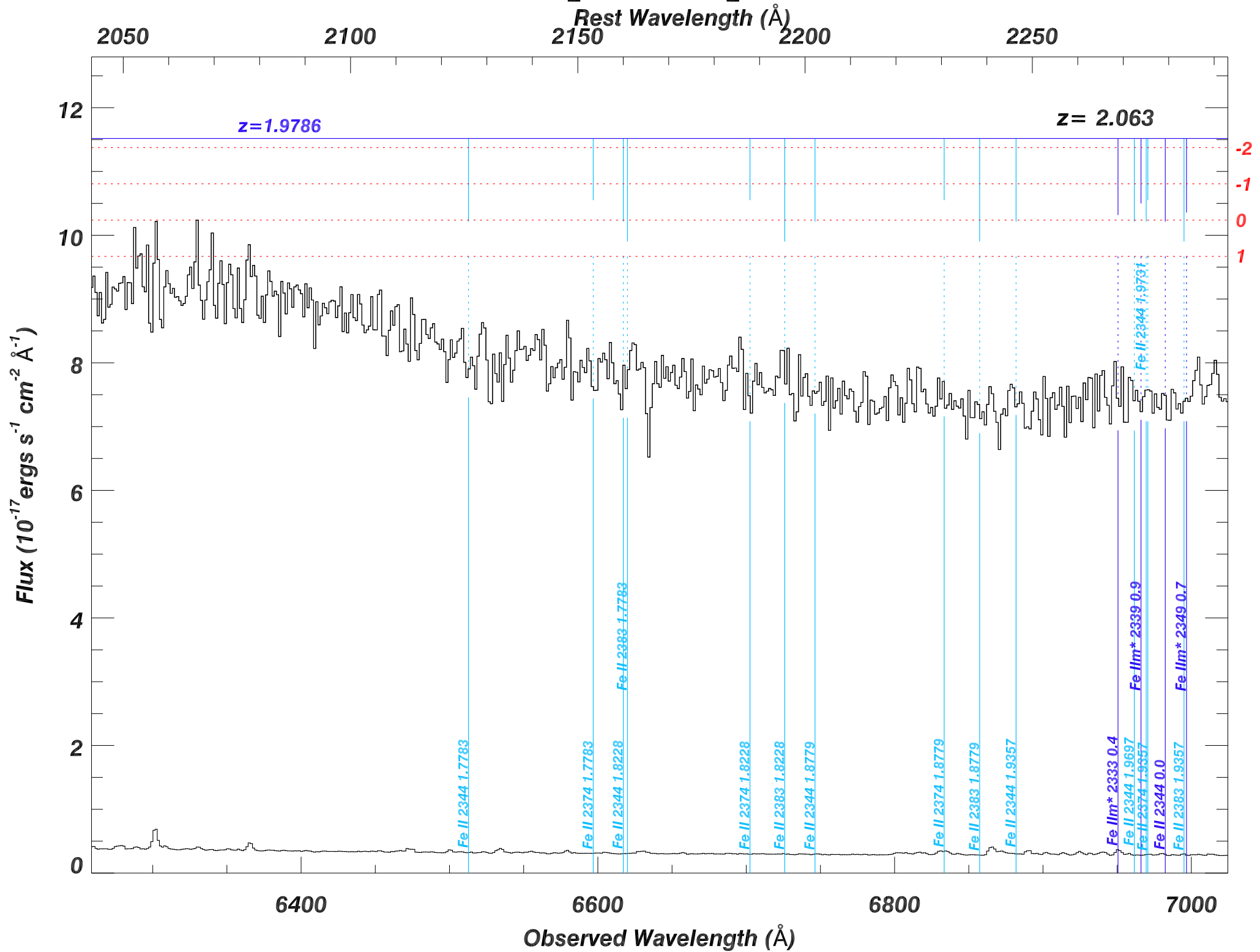
6000

6200

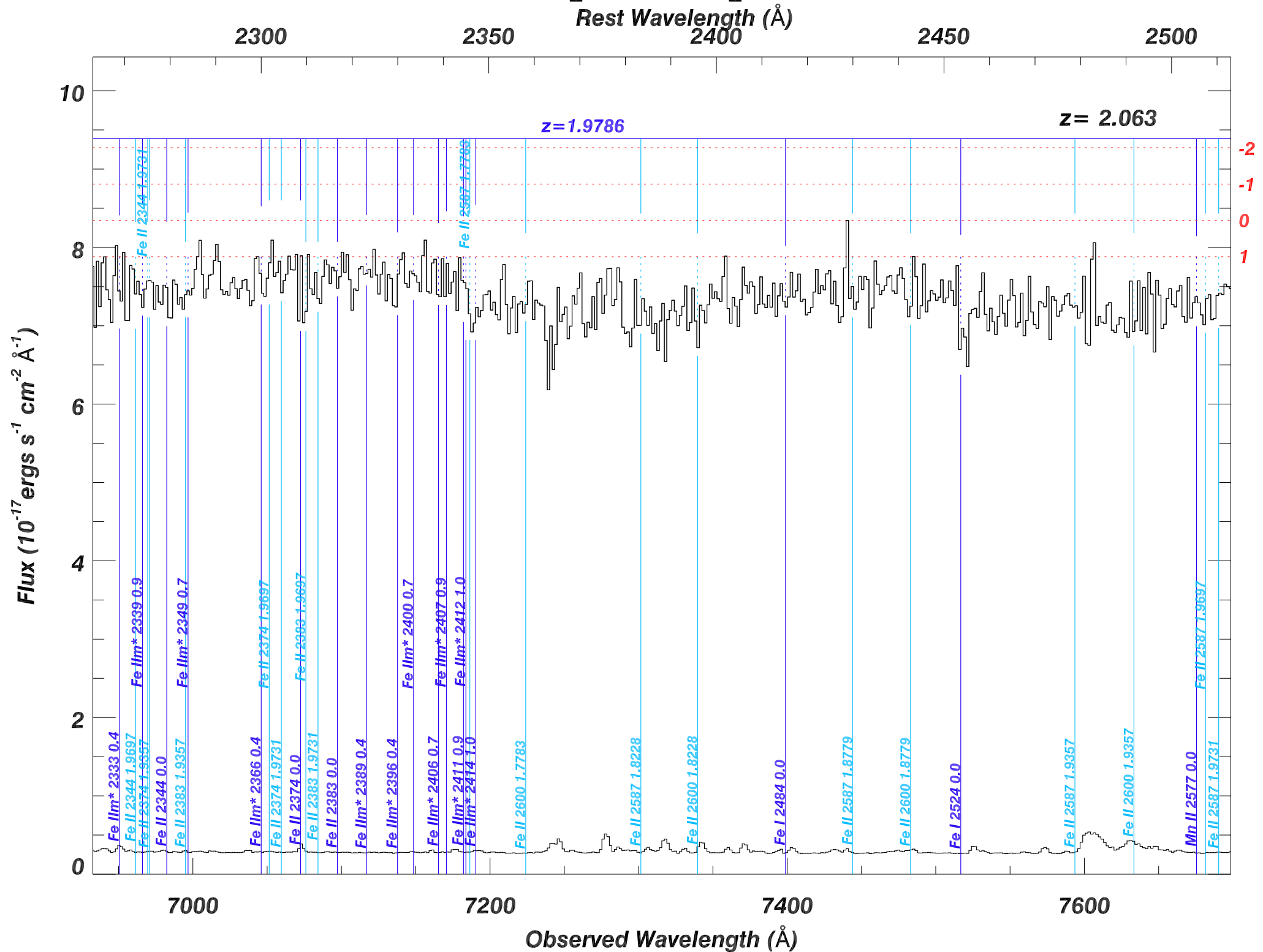
Observed Wavelength (\AA)



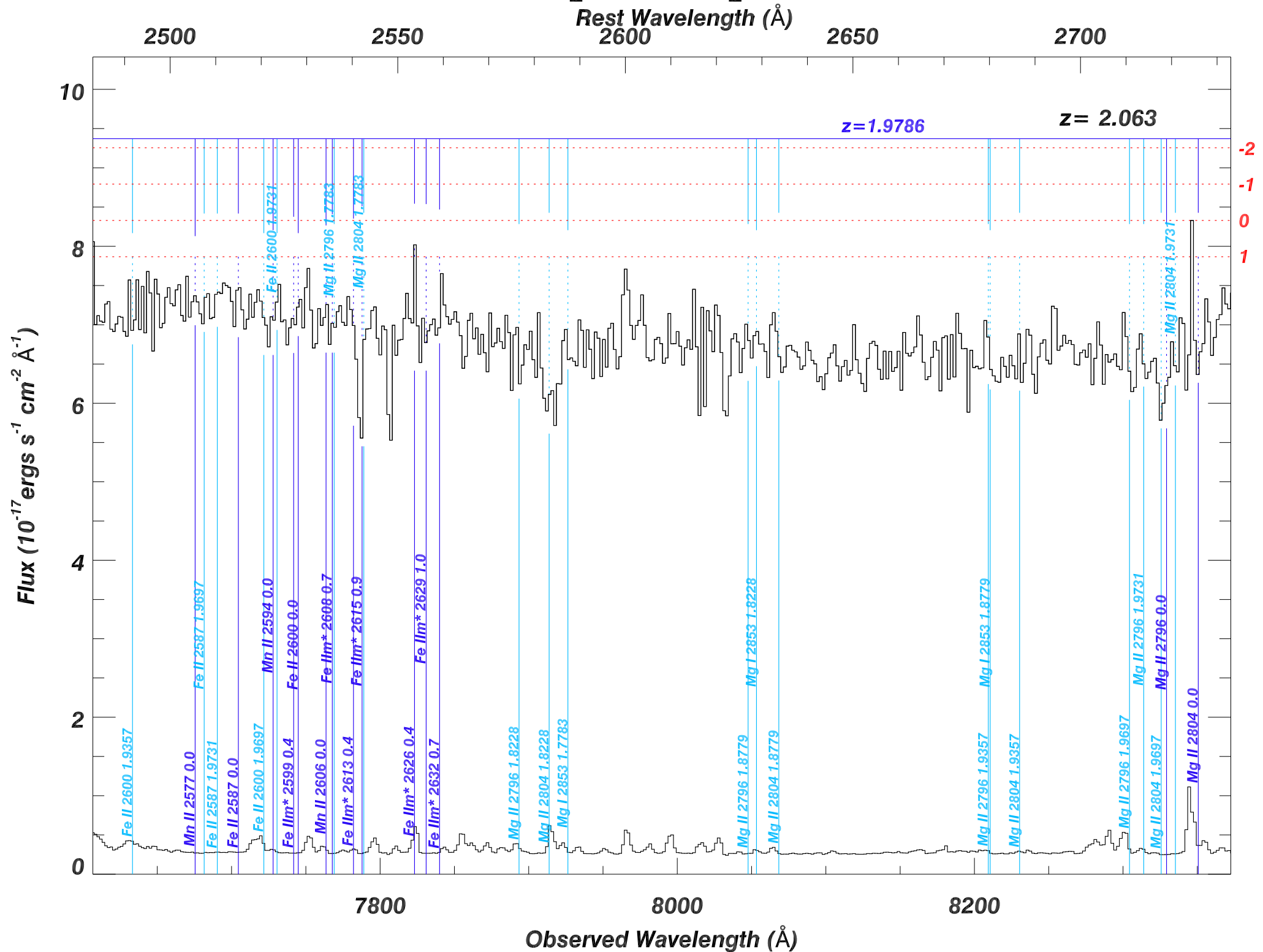
SDSS_J1105+1512_MJD56017



SDSS_J1105+1512_MJD56017



SDSS_J1105+1512_MJD56017



SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

2750

2800

2850

2900

2950

$z=1.9786$

$z=2.063$

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

10

8

6

4

2

0

-2

-1

0

1

Mg II 2796 1.9697

Mg II 2796 1.9731

Mg II 2804 1.9697

Mg II 2804 1.9731

Mg II 2804 0.0

Mg II 2804 0.0

Mg I 2853 1.9357

Mg I 2853 1.9697

Mg I 2853 1.9731

Mg I 2853 0.0

Mg I 2853 0.0

He I m* 2946 159.9

8400

8600

8800

9000

Observed Wavelength (\AA)

SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

2950

3000

3050

3100

3150

10

$z=1.9786$

$z=2.063$

-2

-1

0

1

8

6

4

2

0

Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

9000

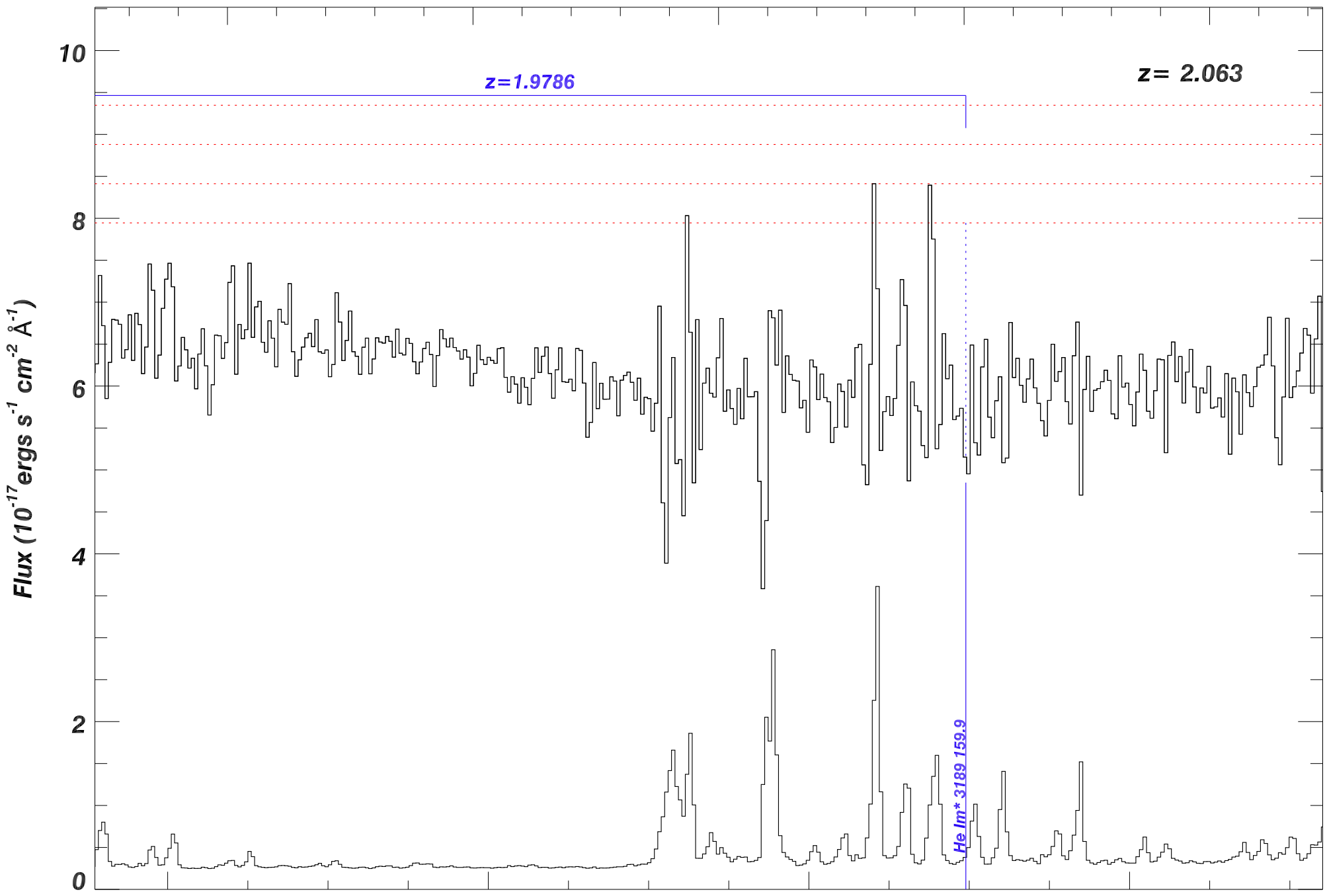
9200

9400

9600

Observed Wavelength (\AA)

He I λ * 3189 159.9



SDSS_J1105+1512_MJD56017

Rest Wavelength (\AA)

3200

3300

3400

3500

$z = 2.063$

