# C Appendix C

### Spectral Atlas

The following PDF files show the spectra and profiles of the fitted spectral features for the data obtained from the New Technology Telescope (NTT) at La Silla, Chile and the Anglo Australian Telescope (AAT) in Australia. The spectra obtained from the NTT are discussed in Chapter 3; the spectra obtained from the AAT are discussed in Chapter 4

## C.1 Local Bubble

These are the spectra obtained from the NTT. Each row of the PDF corresponds to the spectrum of one star, the name of which appears at the bottom right hand corner of the plot in the first column. Each plot corresponds to a wavelength range that spans the spectral feature of interest. The columns from left to right are: 1) the 5780 and 5797 Å DIBs, 2) the 5850 Å DIB, 3) the He line of the target star, 4) the Na lines of the ISM, 5), the 6196 and 6203 Å DIBs, 6) the 6270 Å DIB, 7) the 6283 Å DIB and 8) the 6614 Å DIB.

The fit of all bar the 5797 Å DIB is shown by a red line, the fit of the 5797 Å DIB is shown by a green line to distinguish it from the 5780 DIB. As discussed in Section 2.2.1 the overlying spectral feature around the 5780 line resulted in the best method of normalising that part of the spectrum involving a 2nd order polynomial. The 5780 and 5797 Å DIBs were fitted separately but displayed in the same plot, as a result the 5797 Å DIB sometimes looks to have a normalisation level higher than 1.0. If the two DIBs had not been plotted on the same graph they would have been normalised independently and the fits of both DIBs would have had continua closer to 1.0 as is normally the case. The reason for plotting both DIBs at the same time was because of the importance of these two DIBs, plotting them together gave a better overview of the relationship between them. Although not ideal, fitting theses two DIBs in this way gave the most accurate fits and therefore the most accurate measurements for both.

Many of the fits appear to be fitting noise, all of these plots were inspected by eye and only those data for which I could be certain there was a spectral feature fitted were used for the analysis and creation of the maps.

## C.2 Small Magellanic Cloud (blue)

These are the spectra obtained from the ATT. Each row of the PDF corresponds to spectra of four stars (two plots for each star). The name of the star (in this case just a number) is given at the top left hand corner in the first plot for each star. The first plot in each pair shows the Ca II K line detected in both the Galactic sight-line and in the SMC itself, the second plot in each pair shows the Ca II H line again detected in both the Galactic sight-line and in the SMC itself. Only the Ca II K line was fitted with a profile (red line) as there was too much spectral contamination to accurately fit the Ca II H line. However, from the known wavelength separation of these two spectral lines it was possible to mark the expected peak postion for the on the plot for the Ca II H line for both the Galactic sight-line and in the SMC.

All of these plots were inspected by eye and only those data for which I could be certain there was a spectral feature fitted were used for the analysis and creation of the maps.

## C.3 Small Magellanic Cloud (red)

These are the spectra obtained from the ATT. Each row of the PDF corresponds to spectra of two stars (three plots for each star). The name of the star (in this case just a number) is given at the top left hand corner in the first plot for each star. The first plot in each pair shows the 5780 Å DIB detected in both the Galactic sight-line and in the SMC itself, the second plot in each pair shows the 5797 Å DIB detected in both the Galactic sight-line and in the SMC itself and the third plot in each pair shows the Na I D lines again detected in both the Galactic sight-line and in the SMC itself, both the $D_2$ and $D_1$ components of the Na I line in both Galactic sight-line and in SMC were sufficiently separated to be detected. There was also often a detection of the telluric Na I line which showed as an emission line connected to the Galactic component of the Galactic D lines, this was fitted in order to provide a more accurate fit for the Na I absorption lines. Both DIBs and Na lines were fitted (red lines).

Many of the fits appear to be fitting noise or the DIBs are so weak it is uncertain whether or not the fitting profile is actually detecting a DIB. All of these plots were inspected by eye and only those data for which I could be certain there was a spectral feature fitted were used for the analysis and creation of the maps.

## C.4 Large Magellanic Cloud (blue)

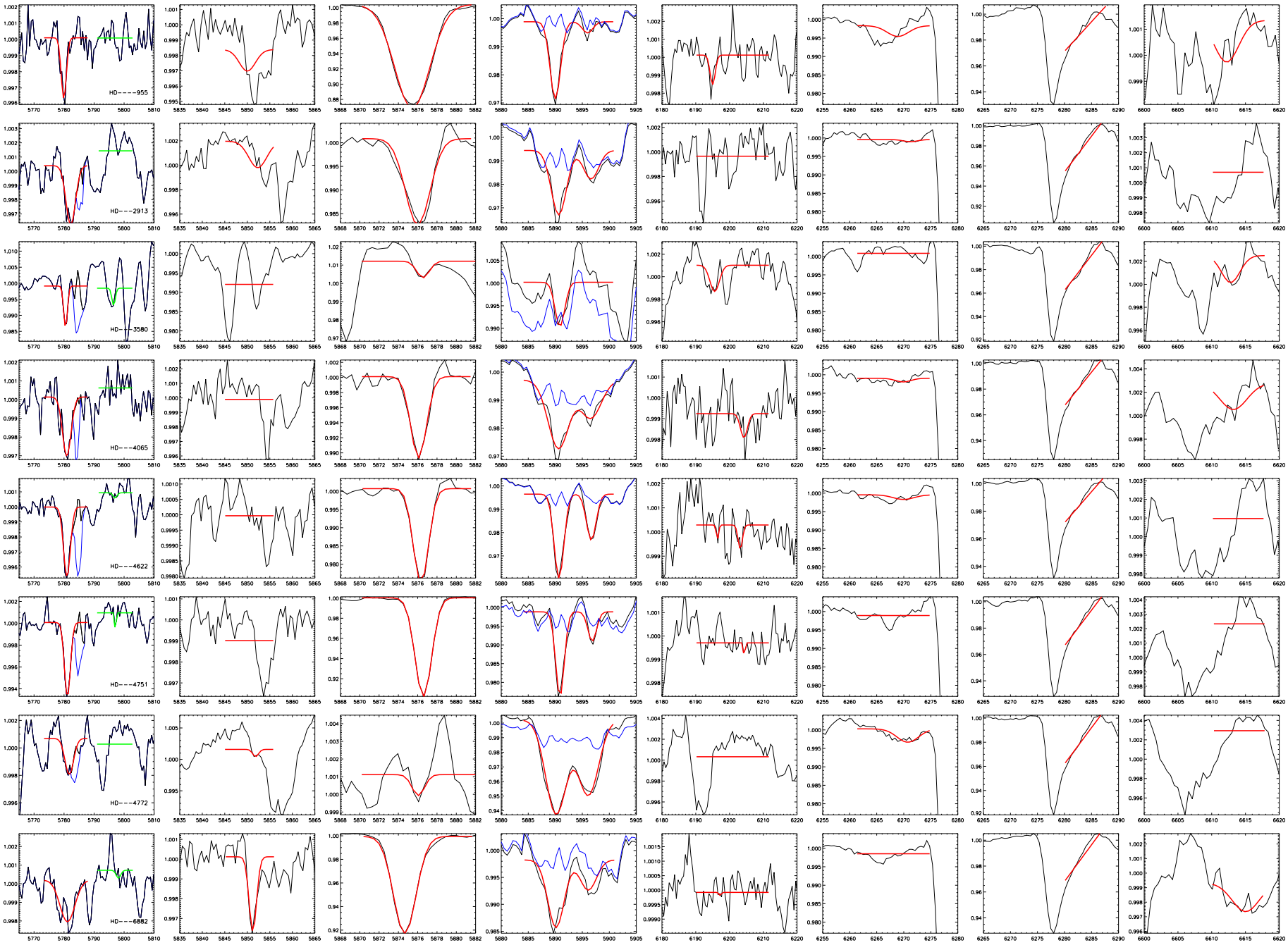
These are the spectra obtained from the ATT. Each row of the PDF corresponds to spectra of four stars (two plots for each star). The name of the star (in this case just a number) is given at the top left hand corner in the first plot for each star. The first plot in each pair shows the Ca II K line detected in both the Galactic sight-line and in the LMC itself, the second plot in each pair shows the Ca II H line again detected in both the Galactic sight-line and in the LMC itself. Only the Ca II K line was fitted with a profile (red line) as there was too much spectral contamination to accurately fit the Ca II H line. However, from the known wavelength separation of these two spectral lines it was possible to mark the expected peak postion for the on the plot for the Ca II H line for both the Galactic sight-line and in the LMC.

All of these plots were inspected by eye and only those data for which I could be certain there was a spectral feature fitted were used for the analysis and creation of the maps.

## C.5 Large Magellanic Cloud (red)

These are the spectra obtained from the ATT. Each row of the PDF corresponds to spectra of two stars (three plots for each star). The name of the star (in this case just a number) is given at the top left hand corner in the first plot for each star. The first plot in each pair shows the 5780 Å DIB detected in both the Galactic sight-line and in the LMC itself, the second plot in each pair shows the 5797 Å DIB detected in both the Galactic sight-line and in the LMC itself and the third plot in each pair shows the Na I D lines again detected in both the Galactic sight-line and in the LMC itself. In the case of the LMC the Galactic $D_1$ line is often blended with the LMC $D_2$ line and $D_1$ components of the Na I, where they are sufficiently separated this is shown by the fitting profile. There was also often a detection of the telluric Na I line which showed as an emission line connected to the Galactic component of the Galactic D lines, this was fitted in order to provide a more accurate fit for the Na I absorption lines. Both DIBs and Na lines were fitted (red lines).

Many of the fits appear to be fitting noise or the DIBs are so weak it is uncertain whether or not the fitting profile is actually detecting a DIB. All of these plots were inspected by eye and only those data for which I could be certain there was a spectral feature fitted were used for the analysis and creation of the maps.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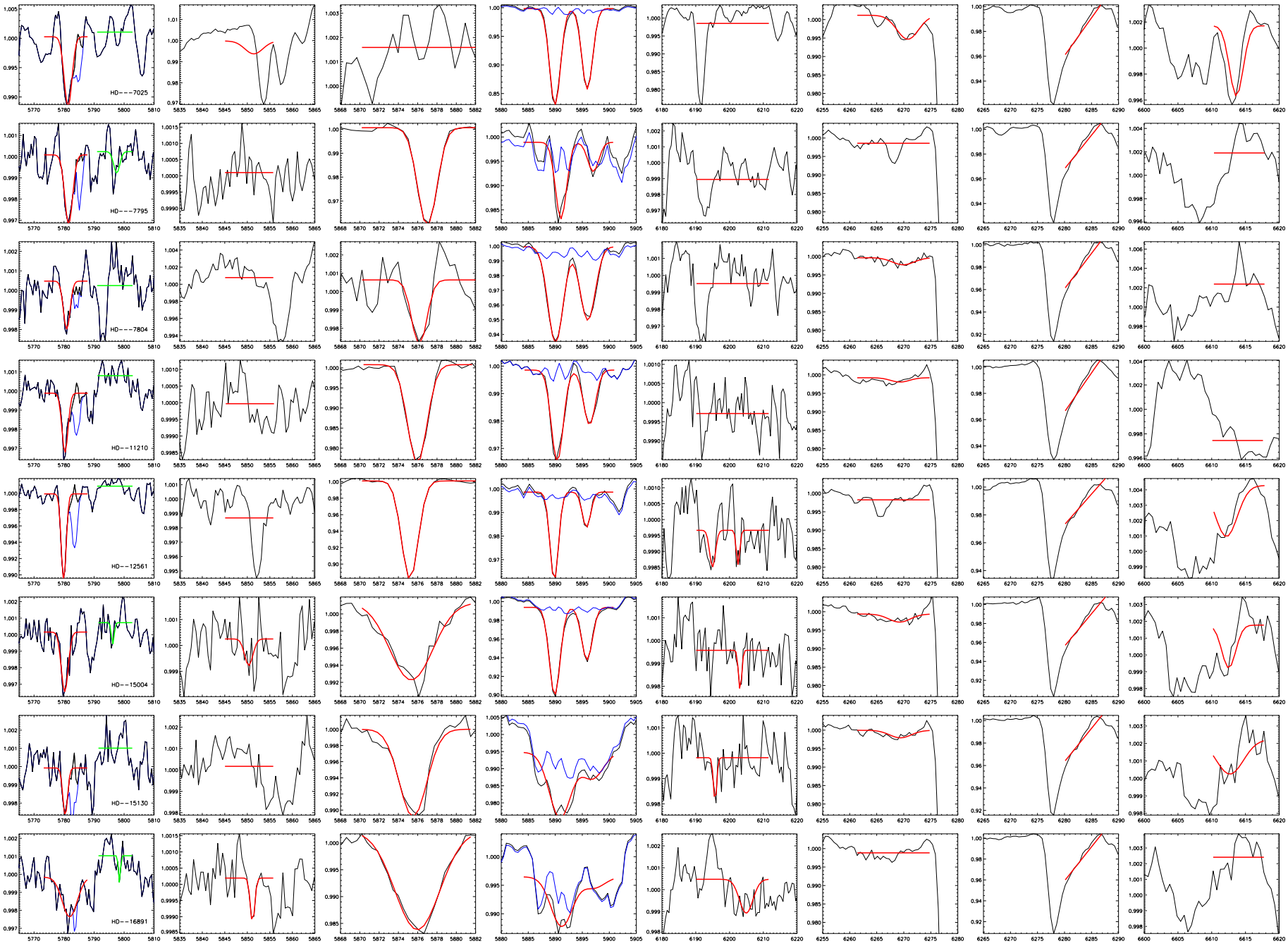
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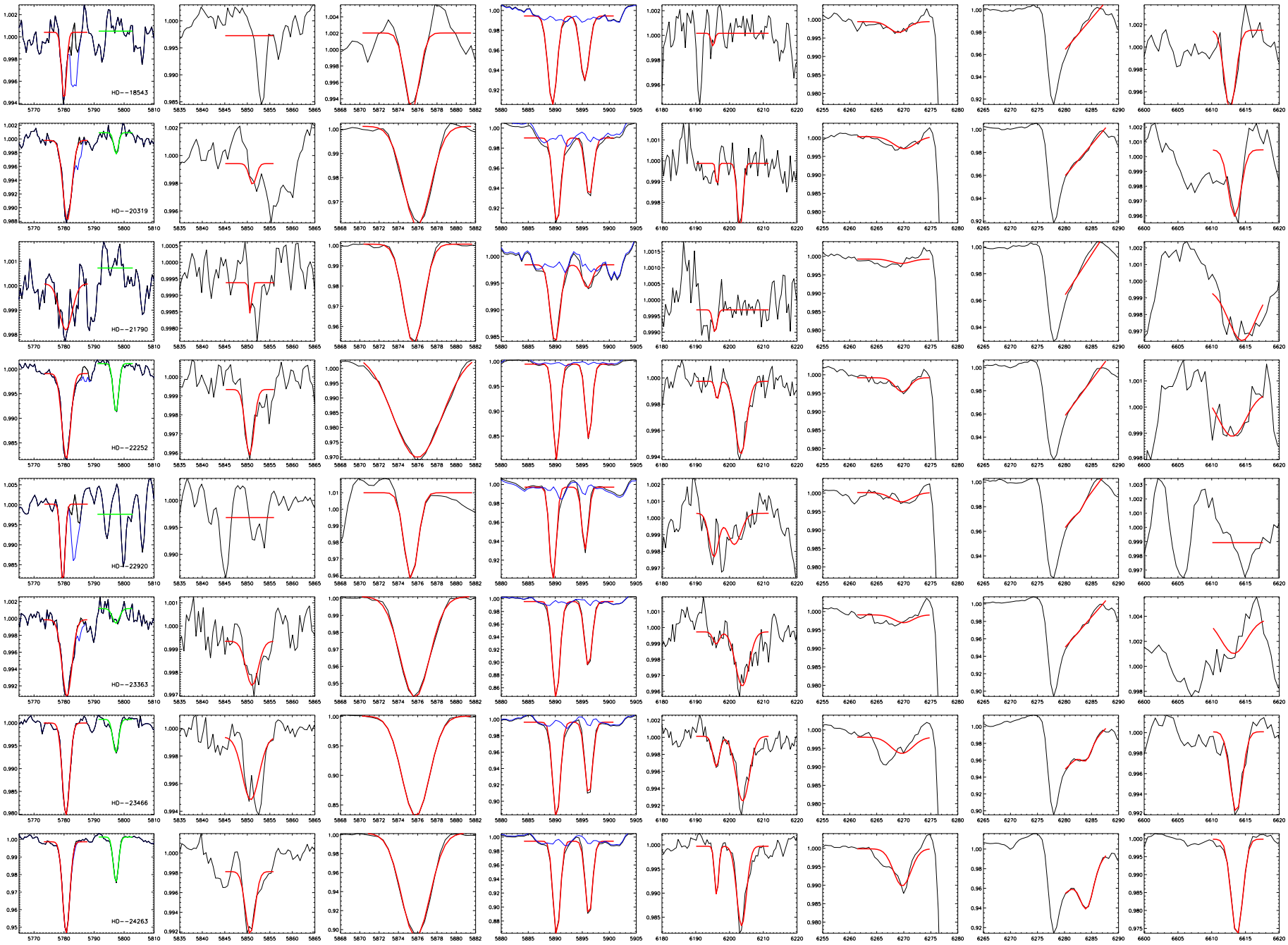
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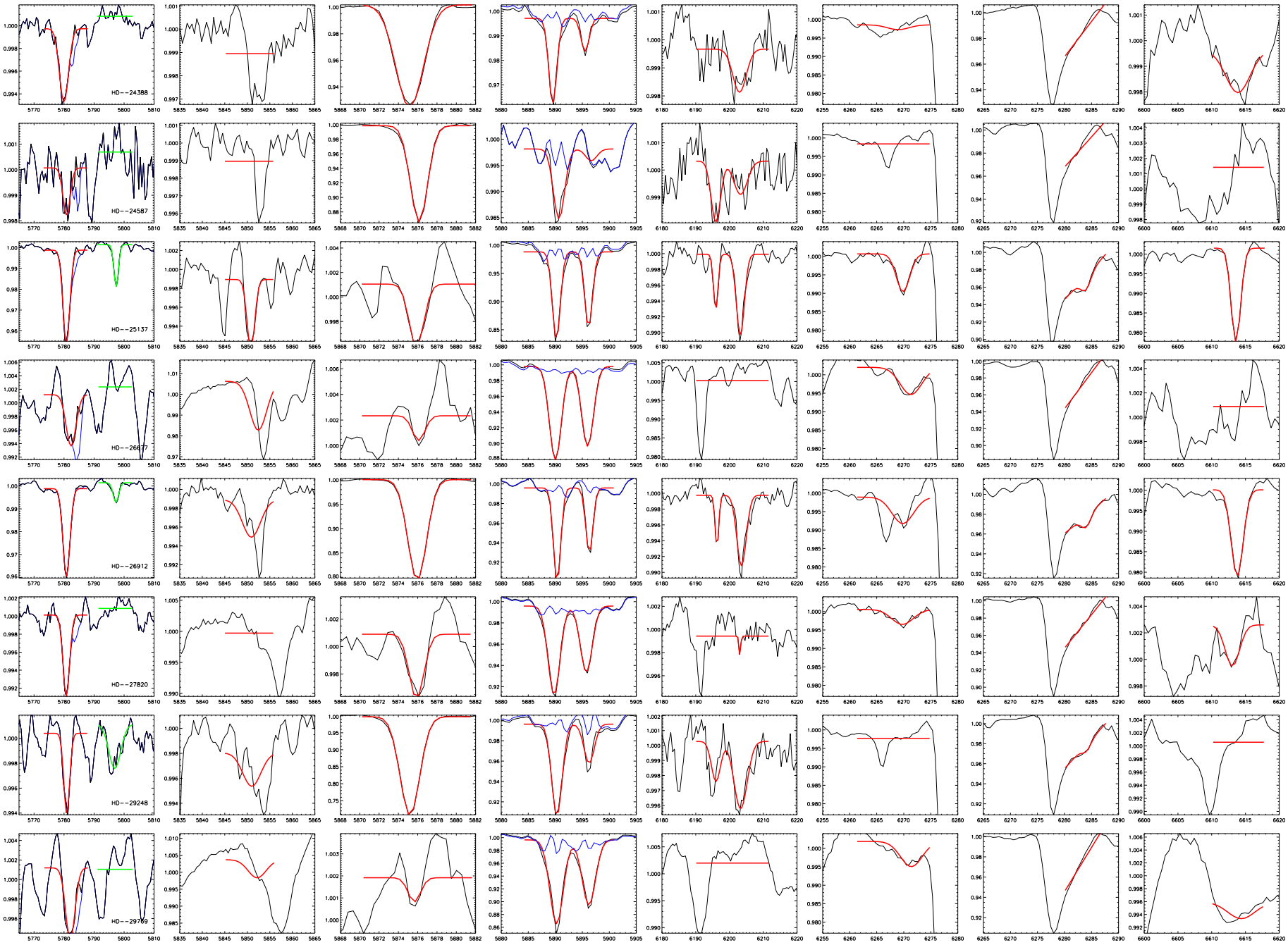
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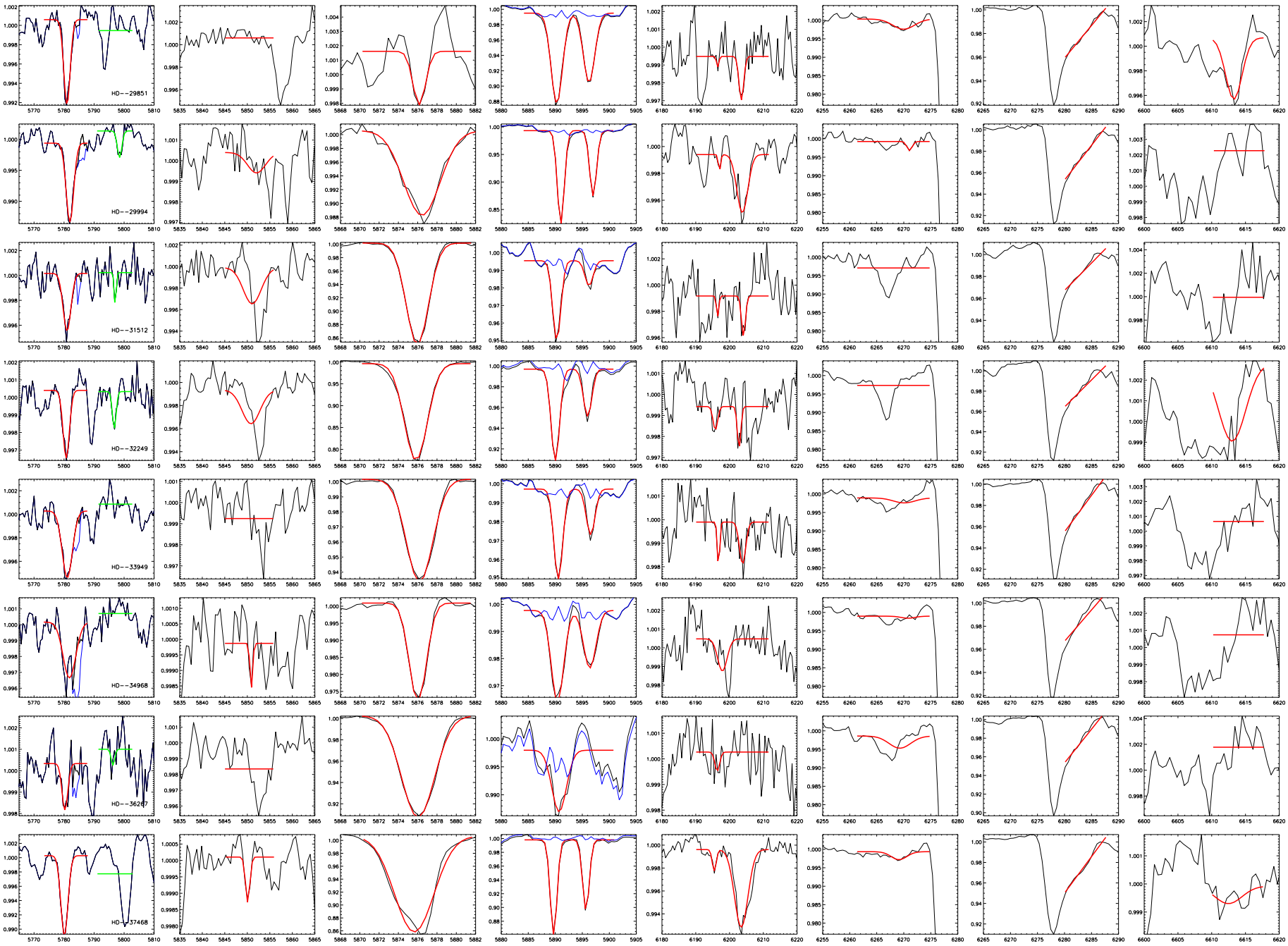
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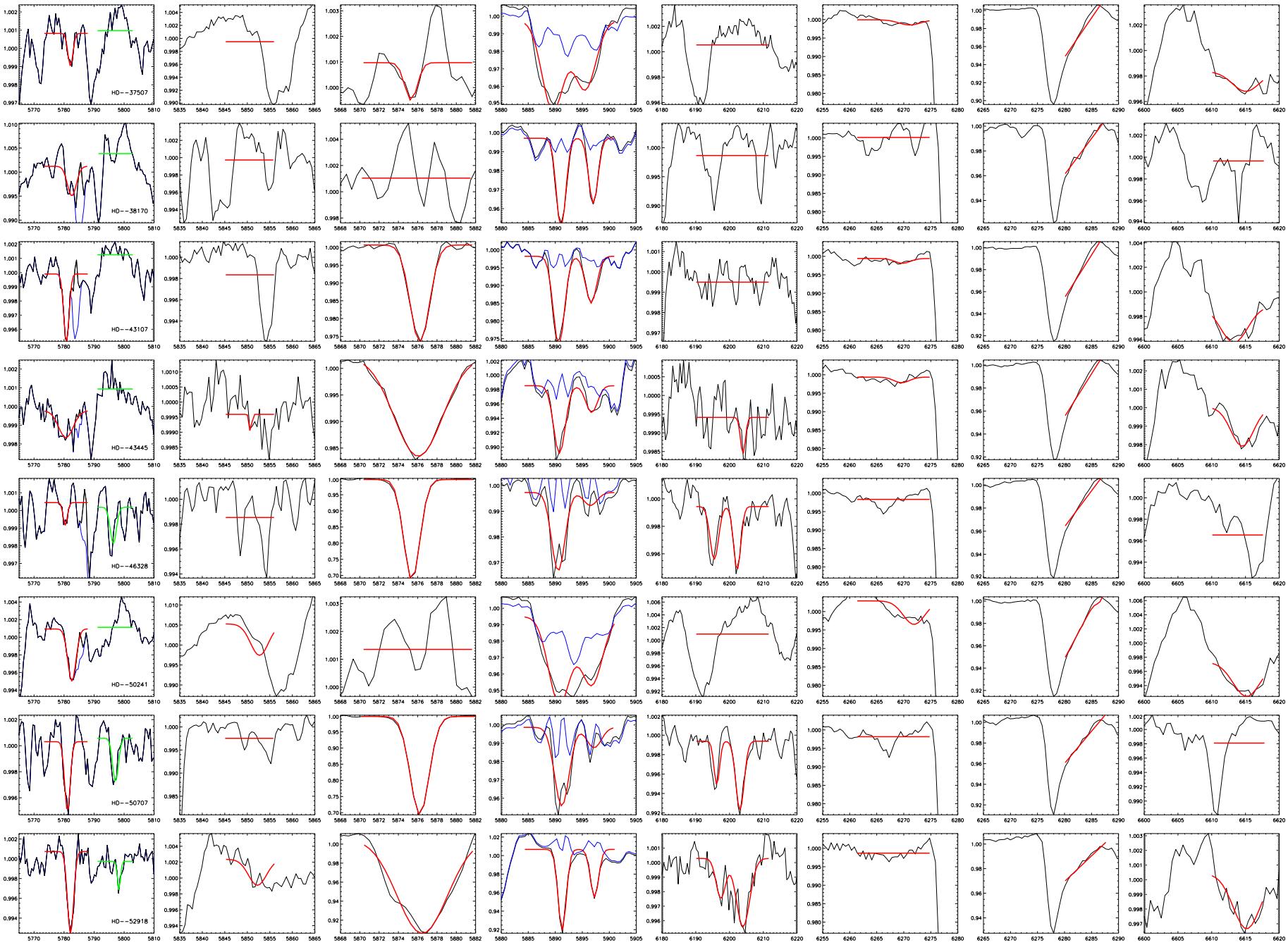
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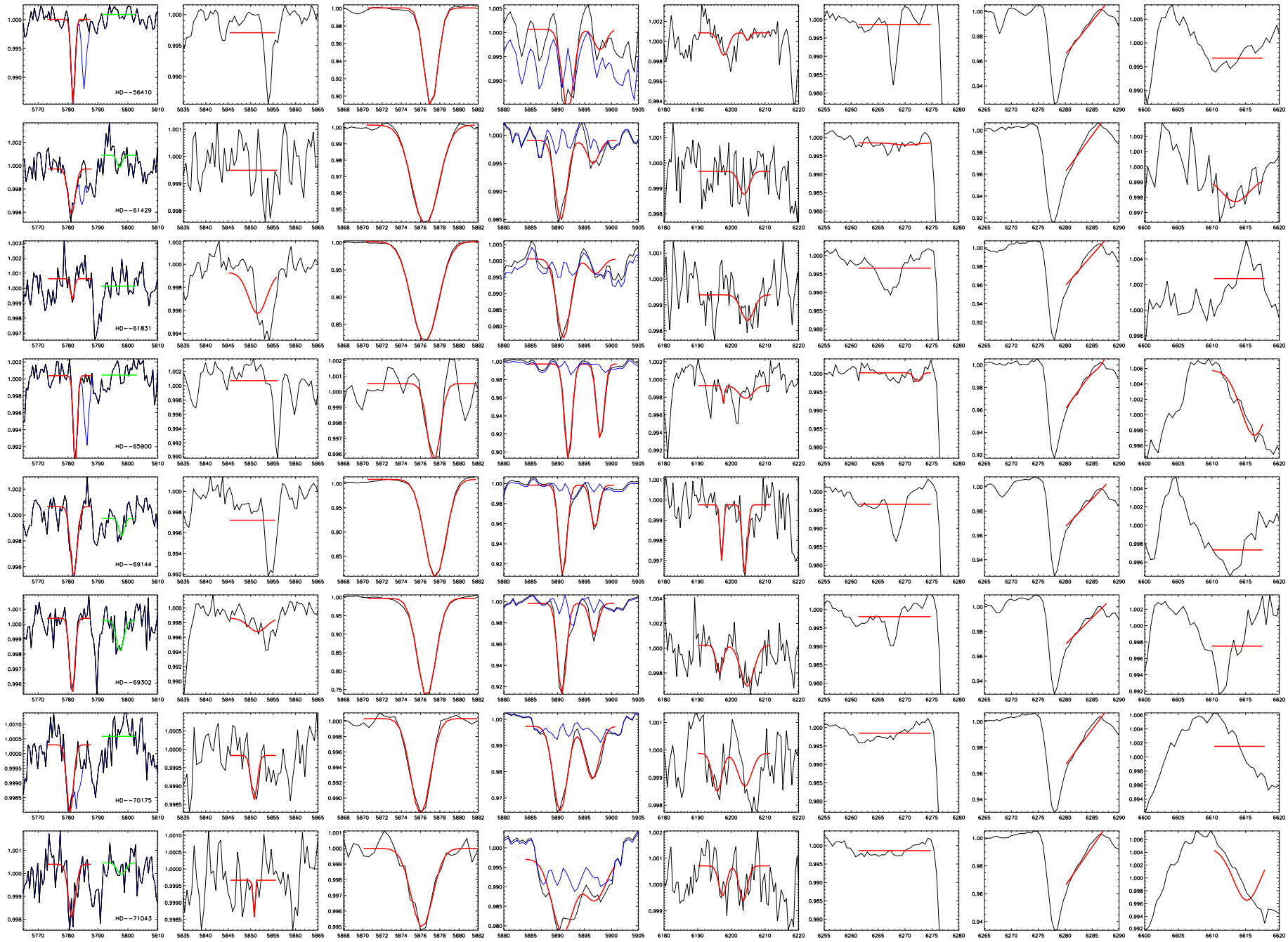
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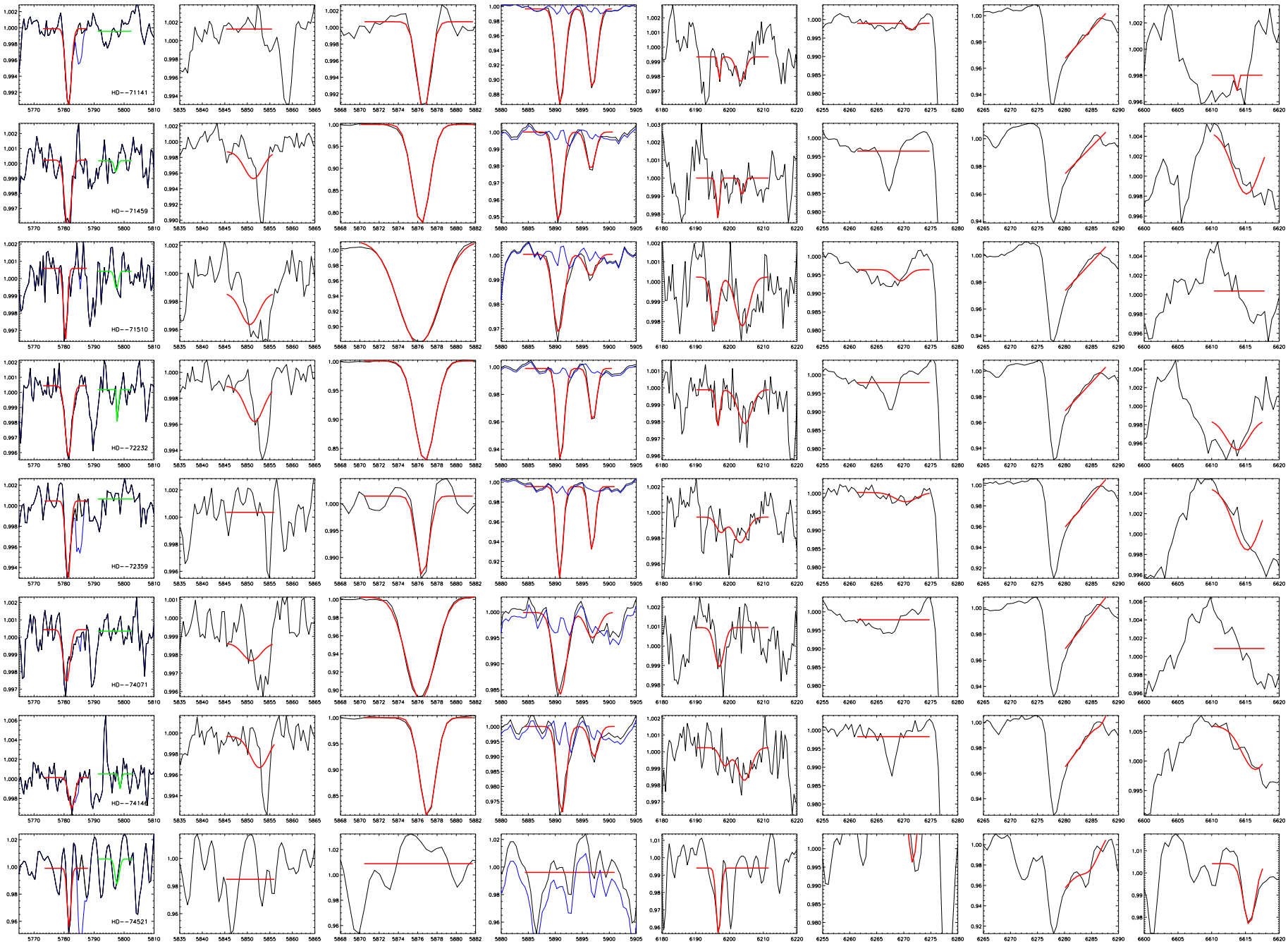
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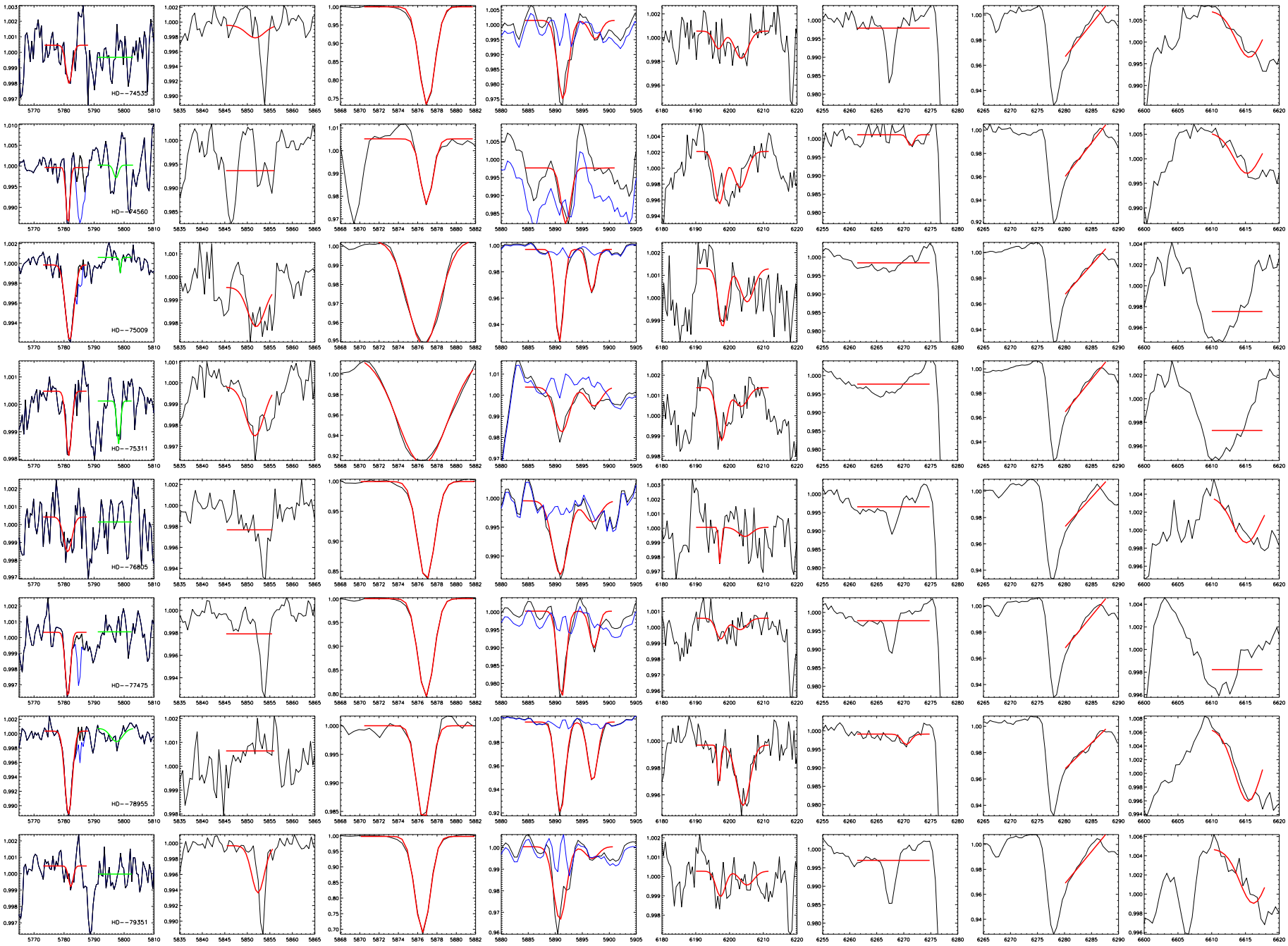
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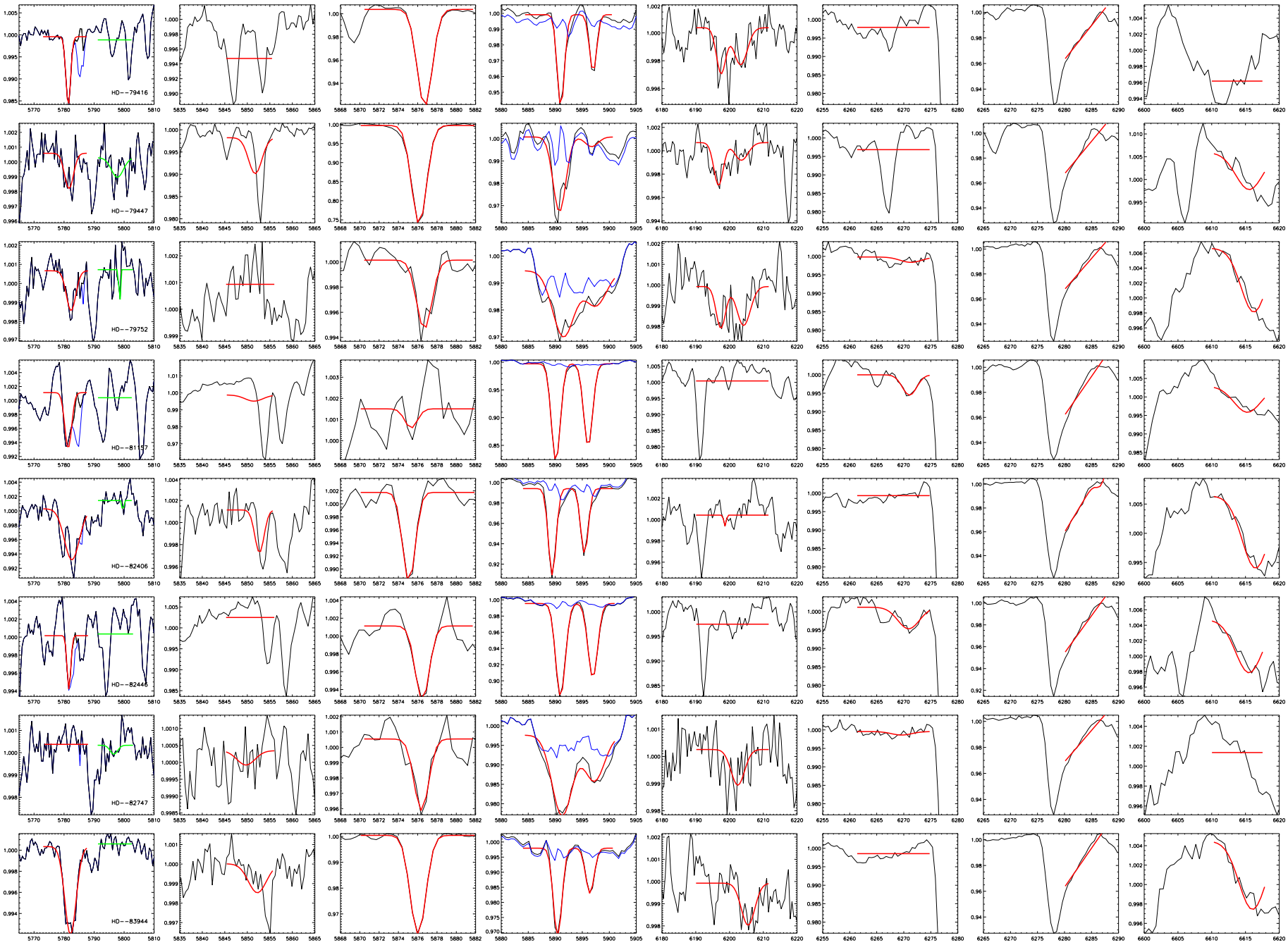
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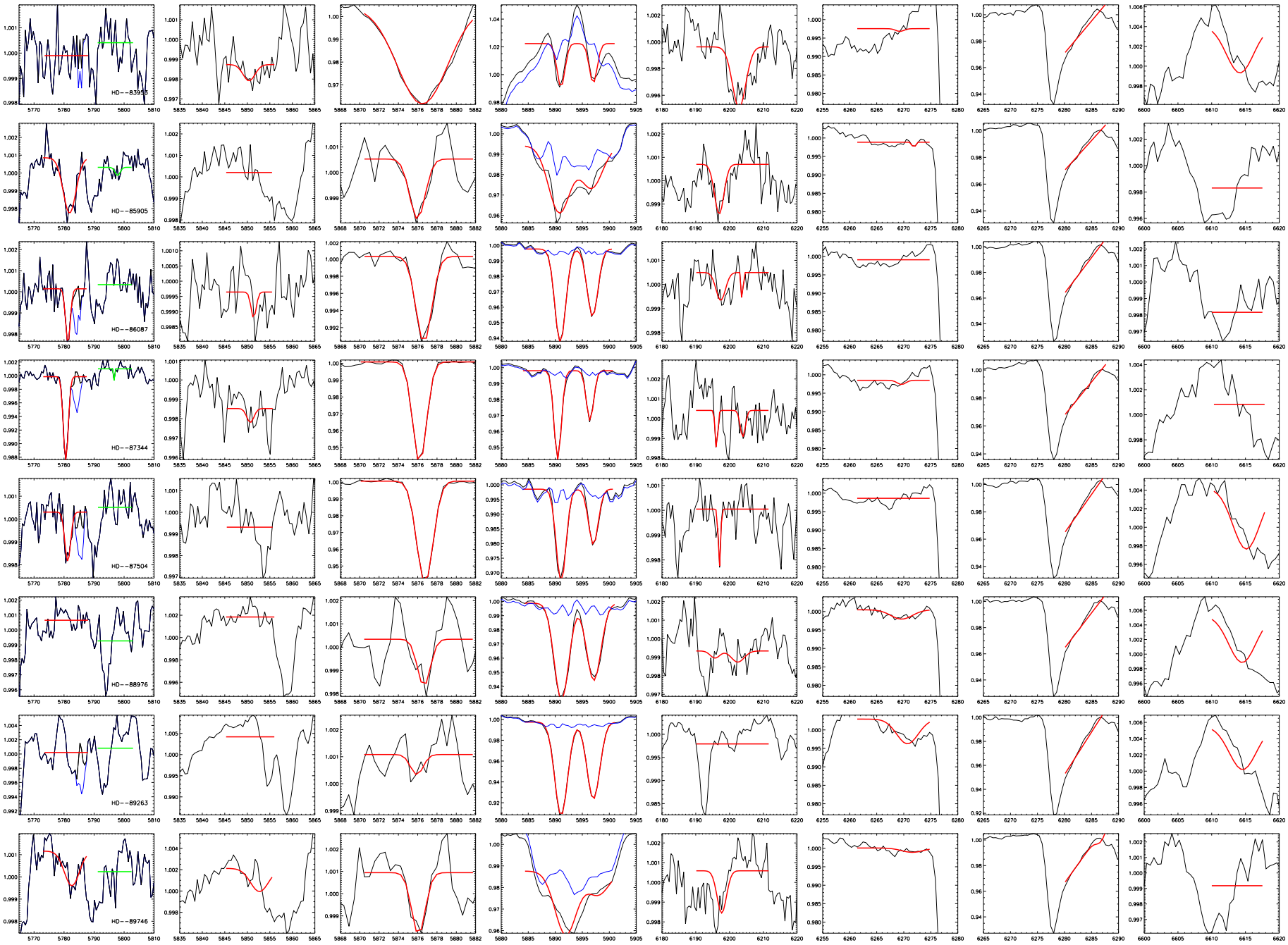
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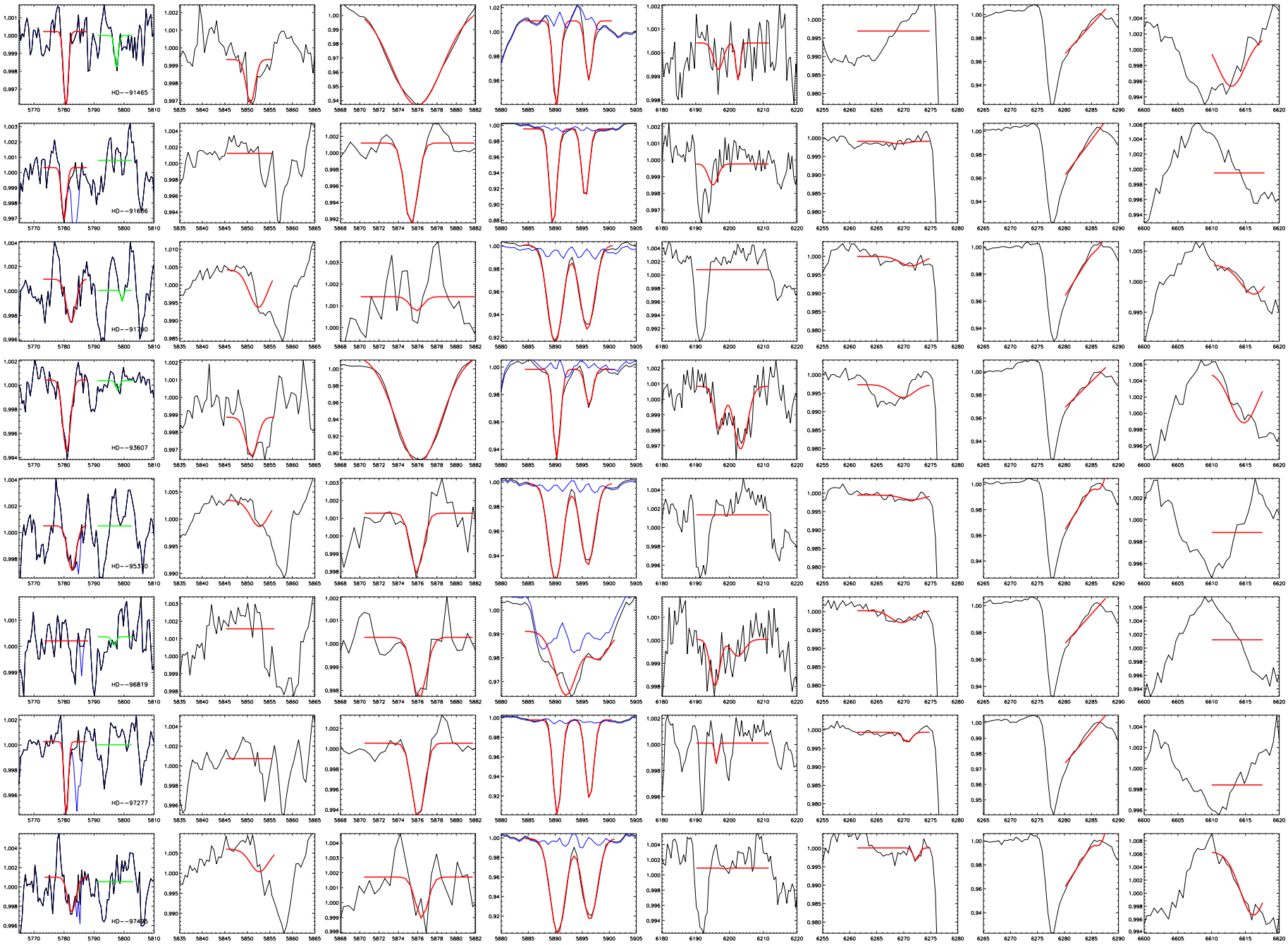
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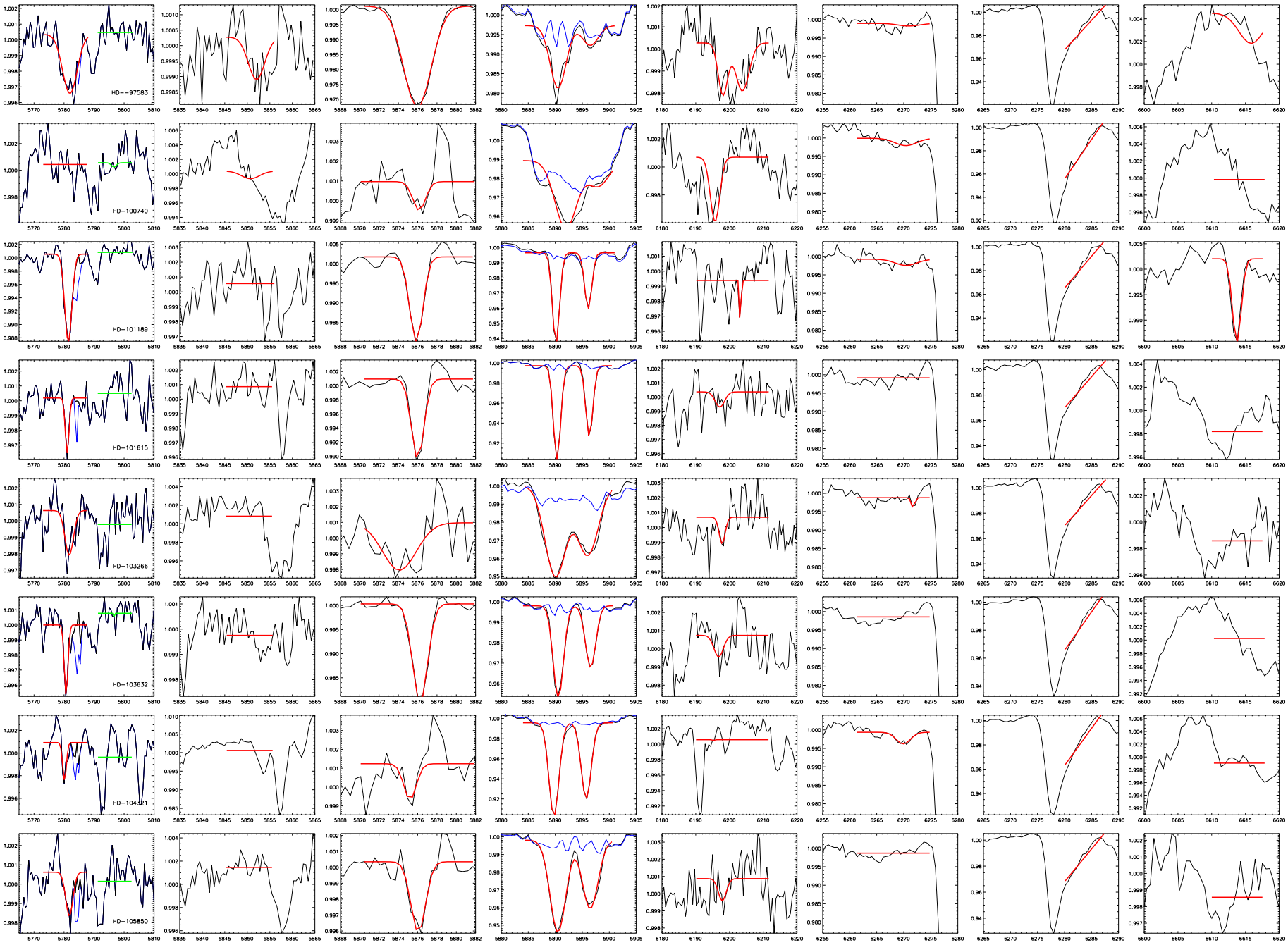
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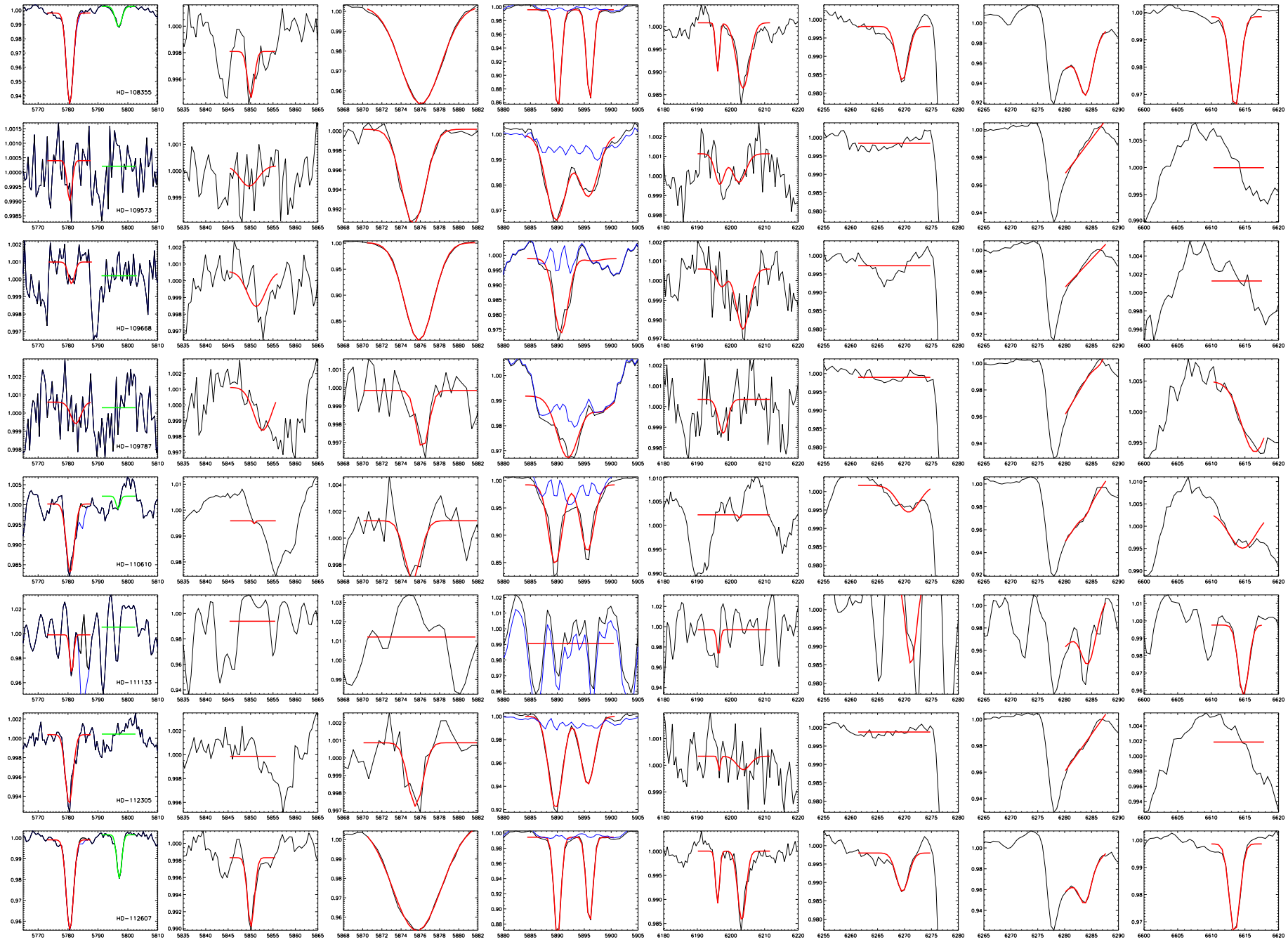
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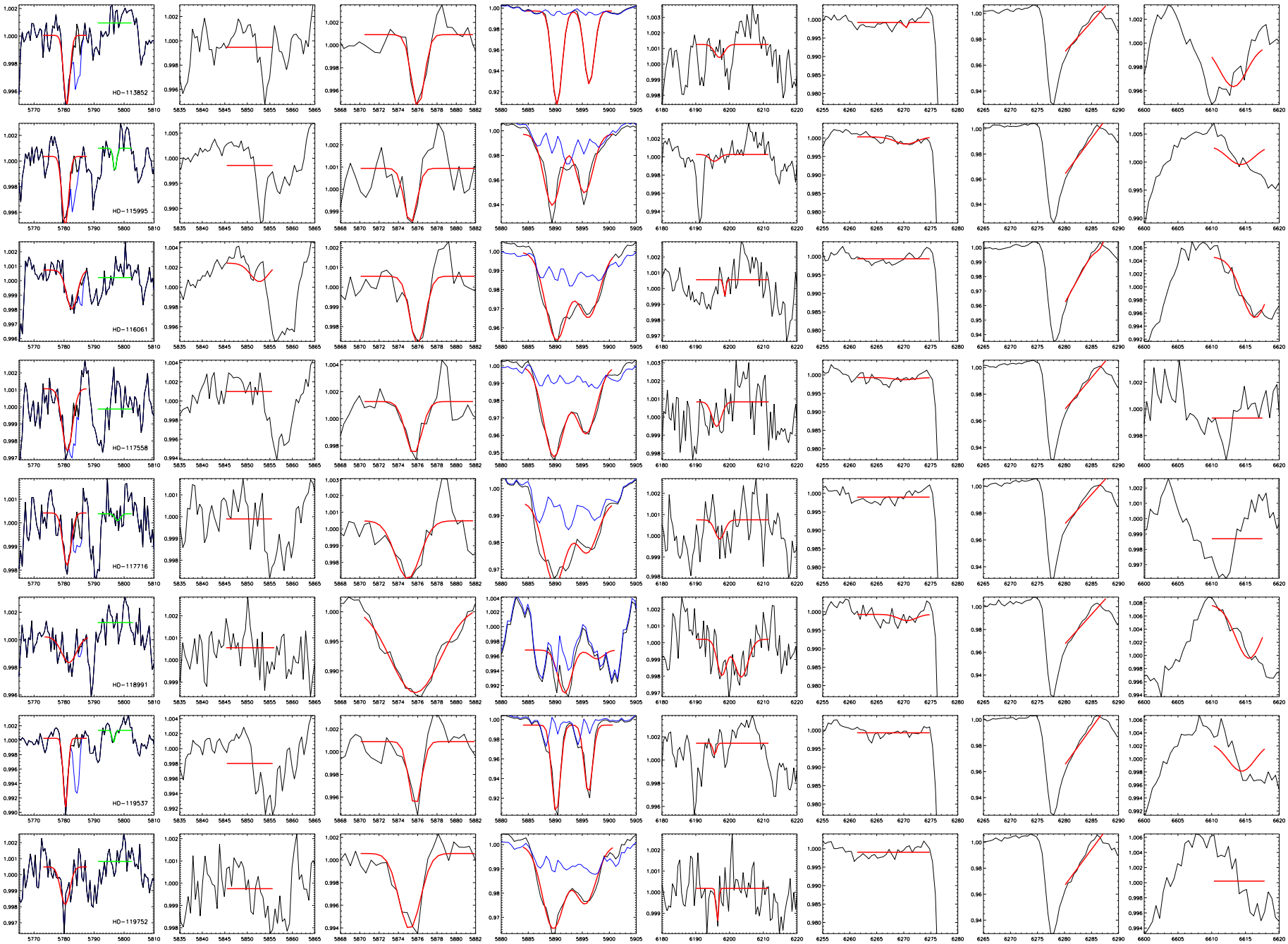
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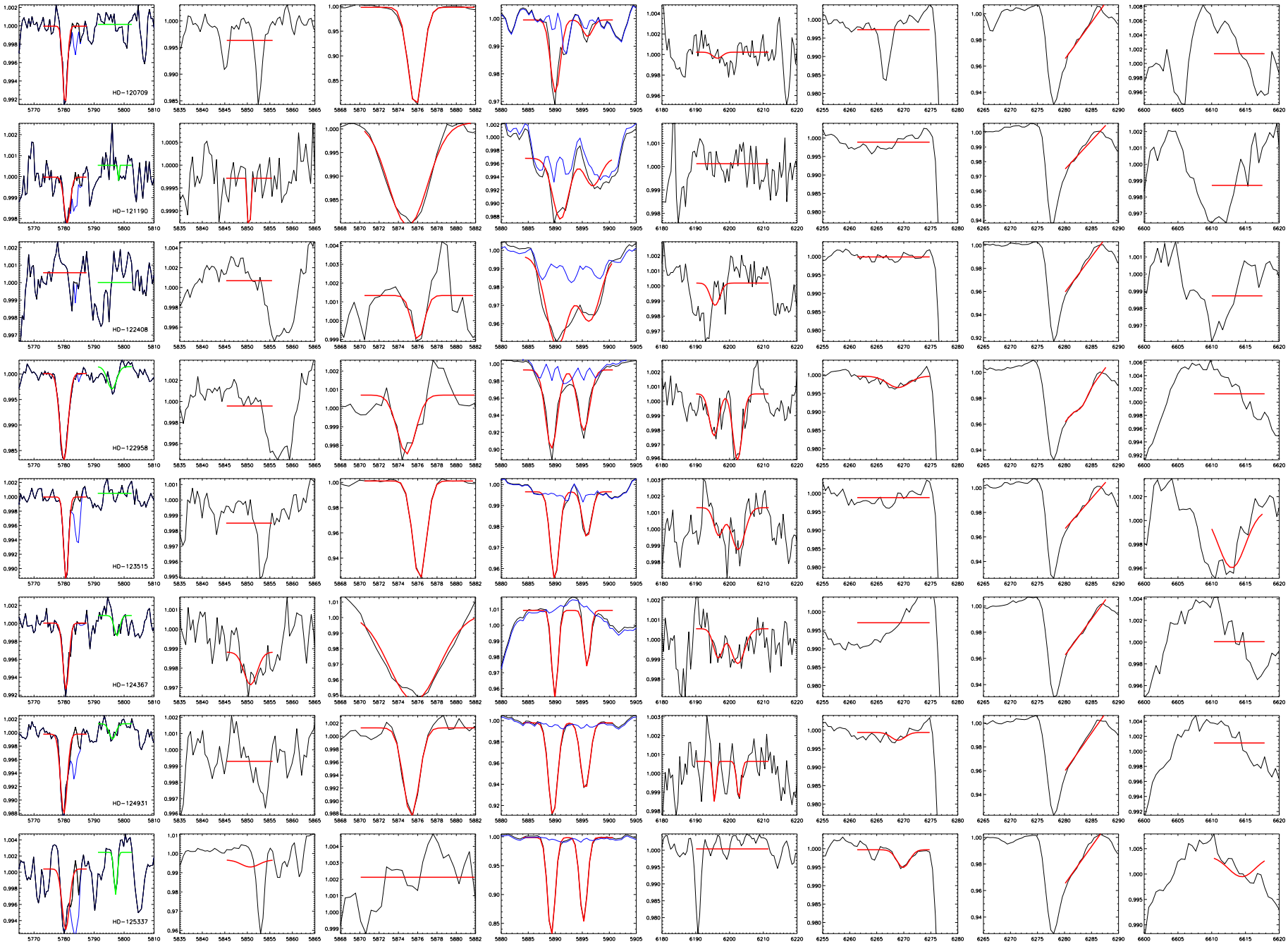
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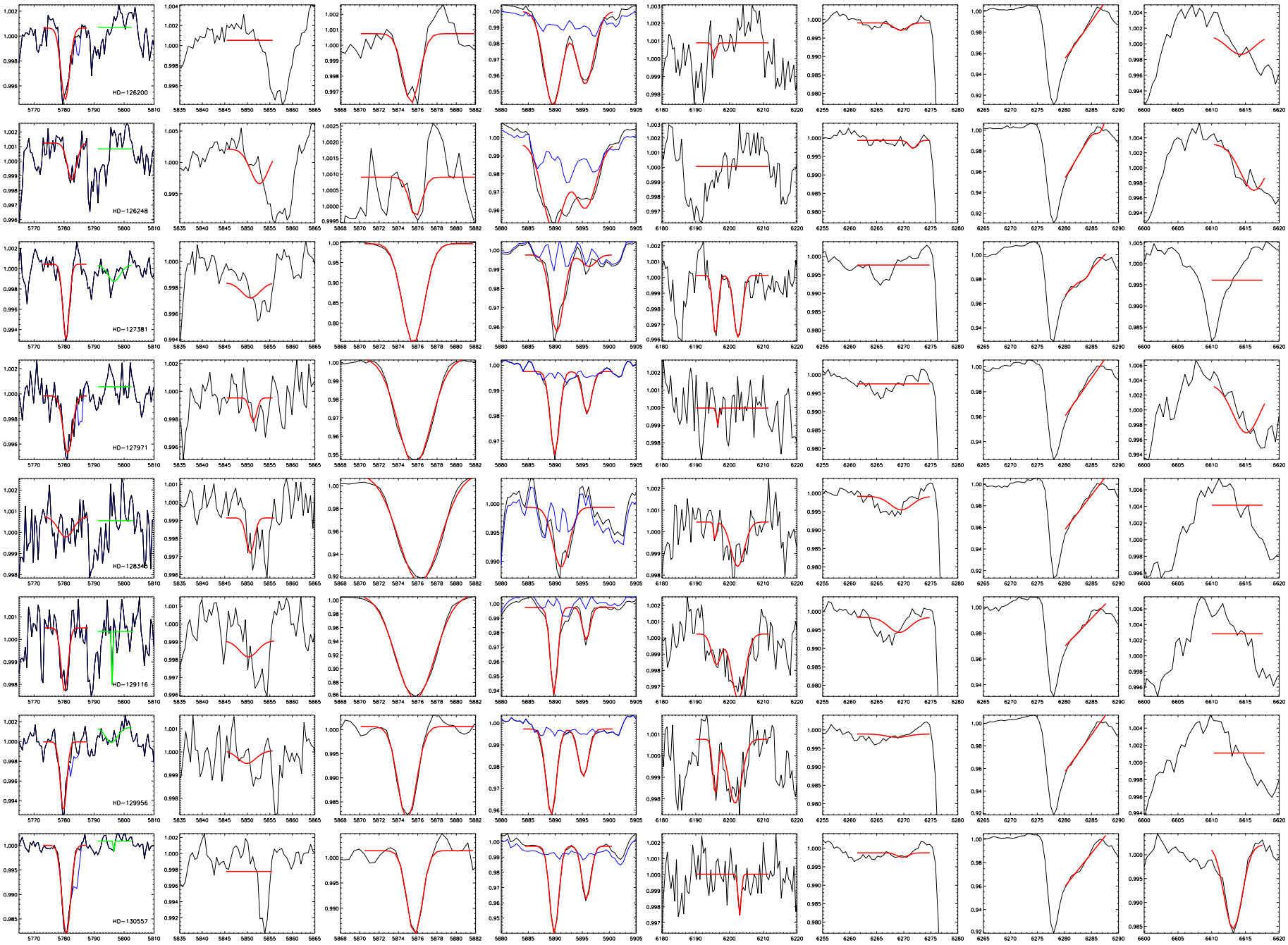
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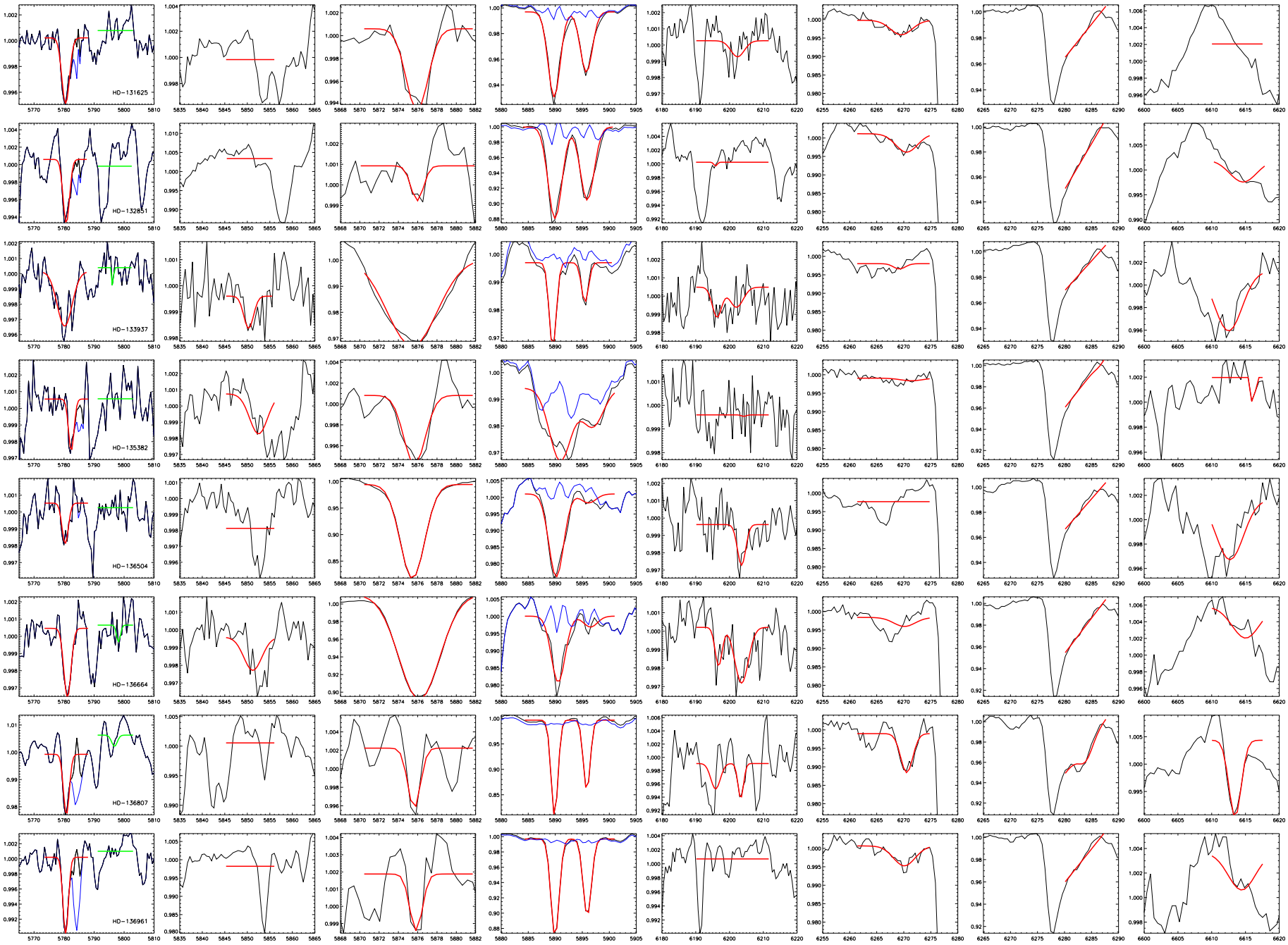
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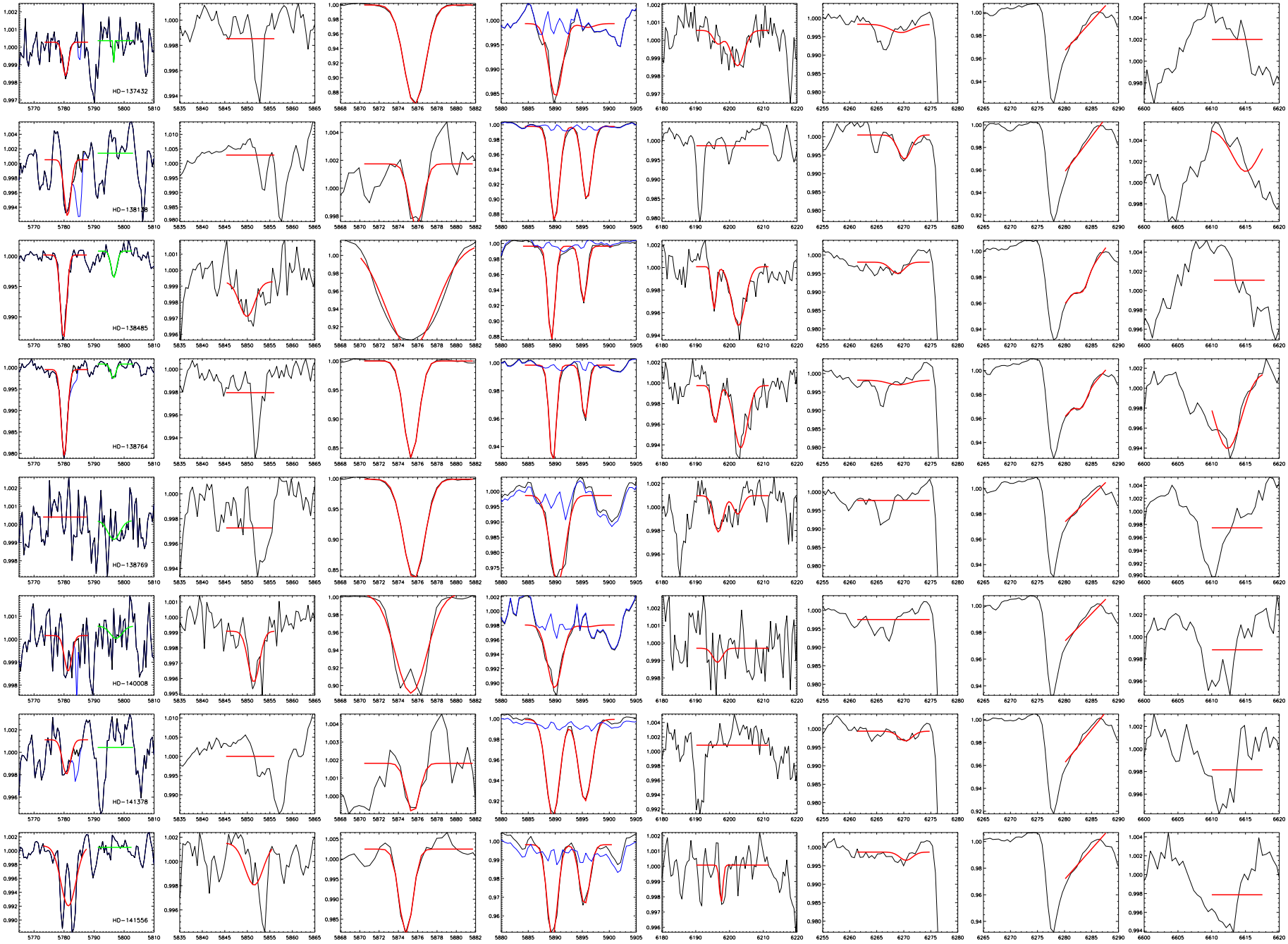
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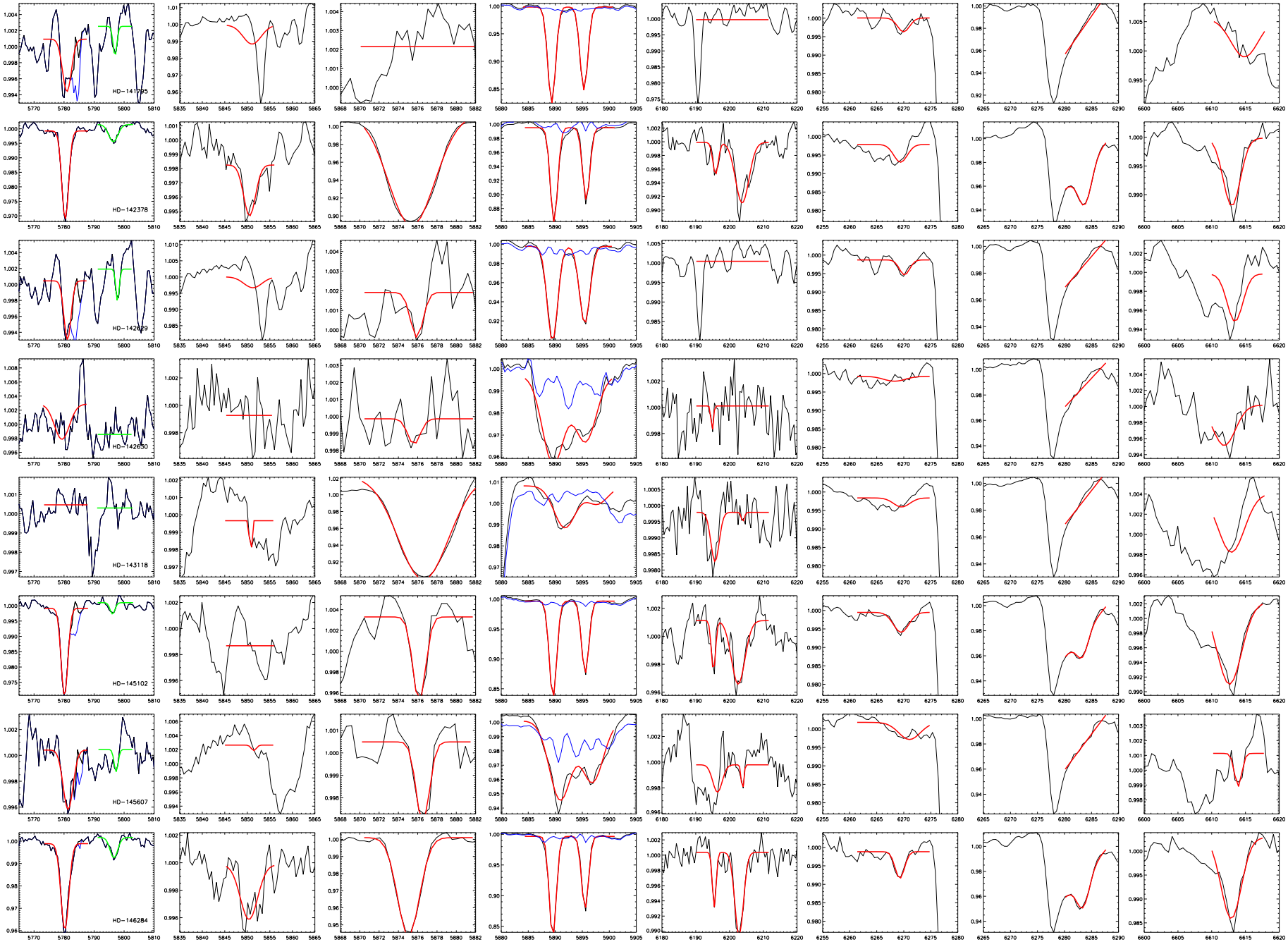
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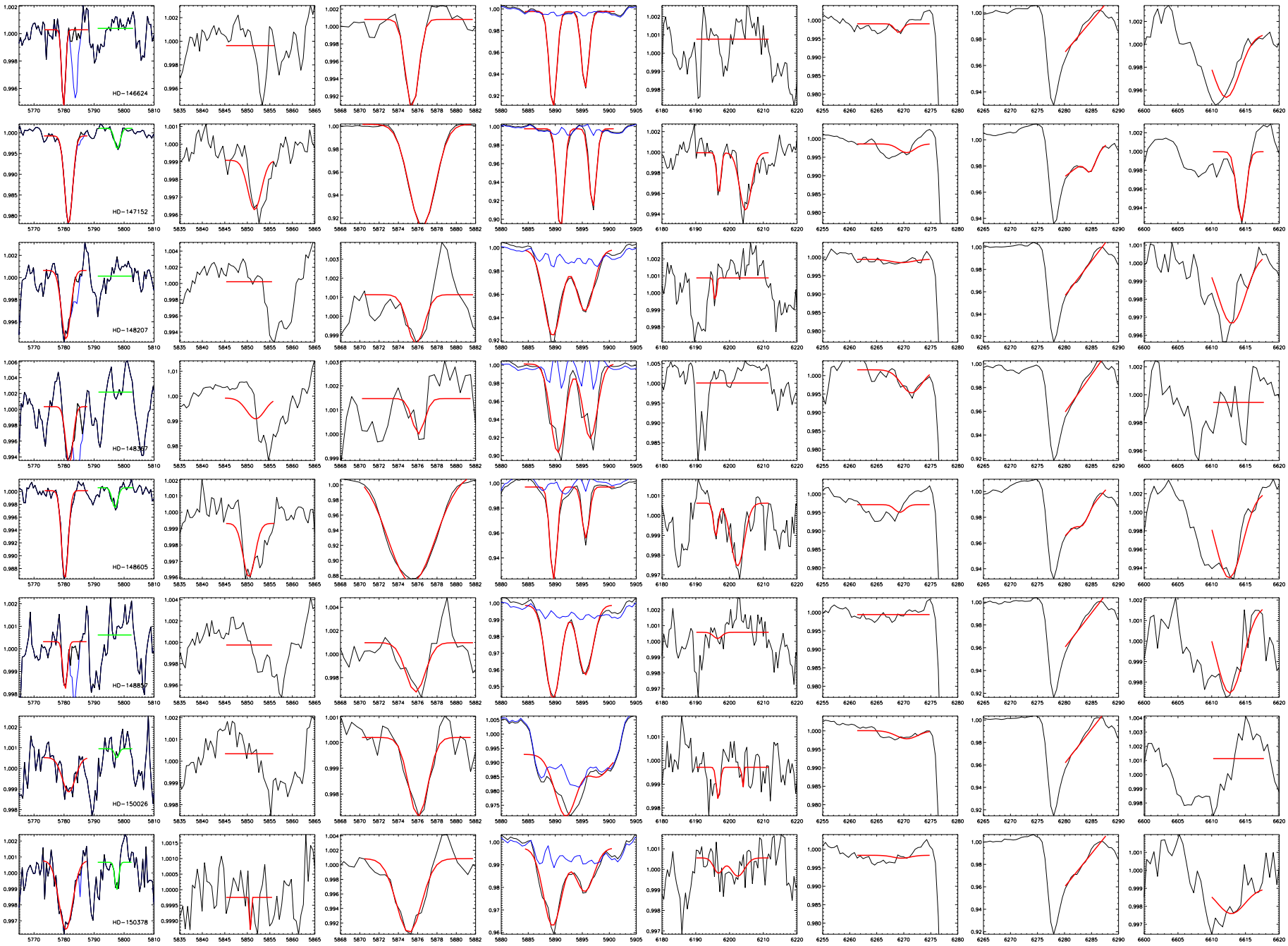
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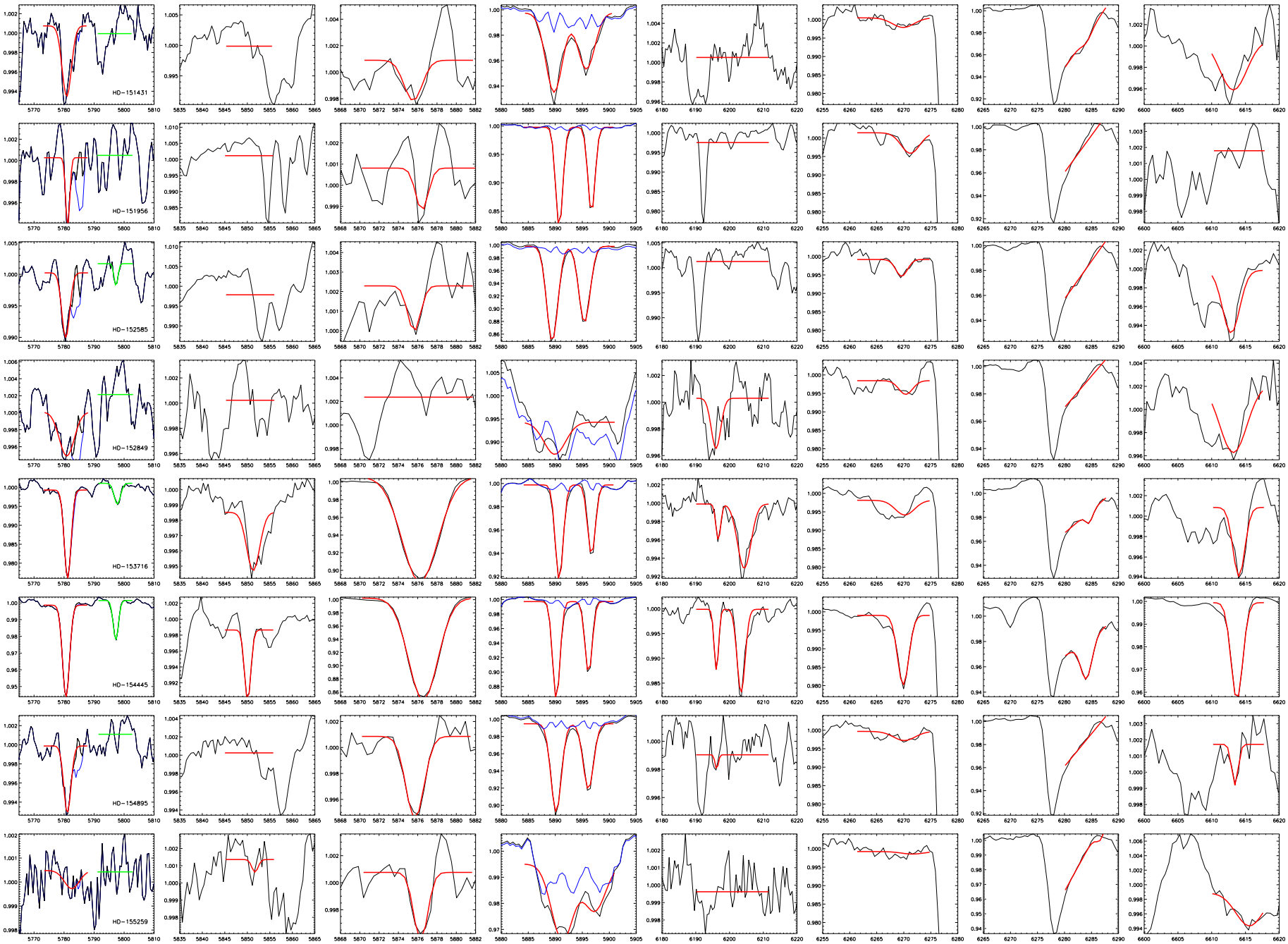
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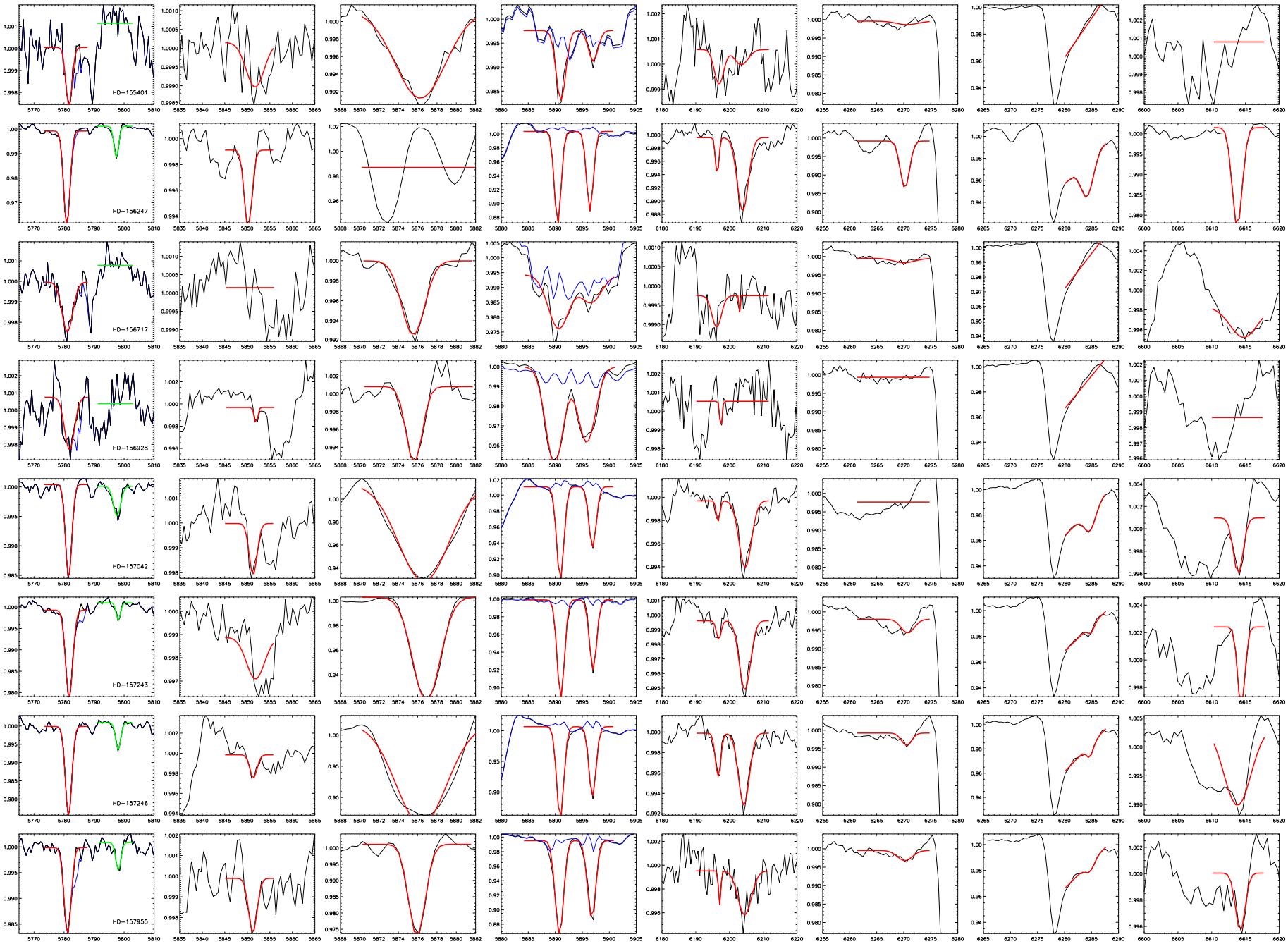
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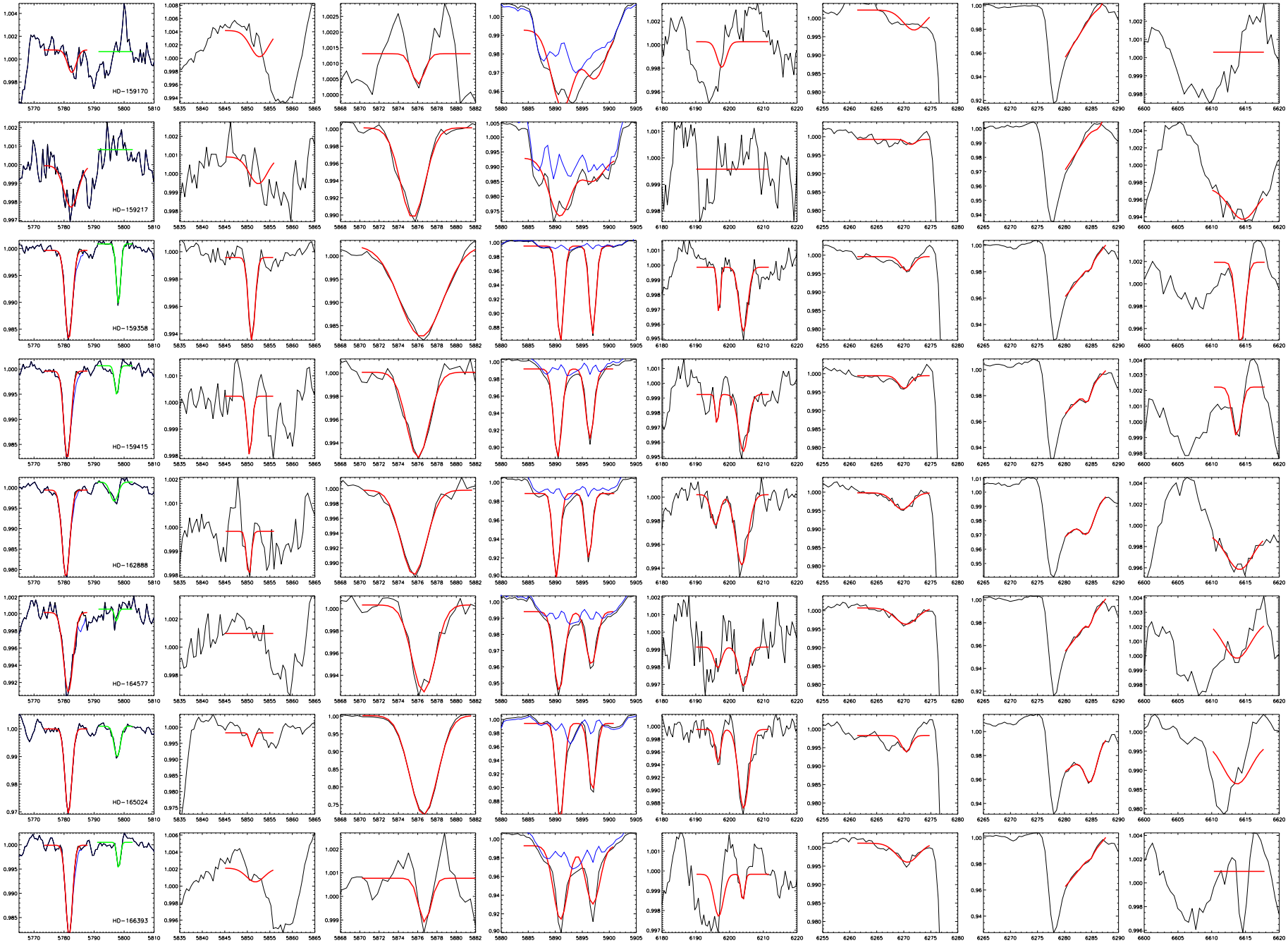
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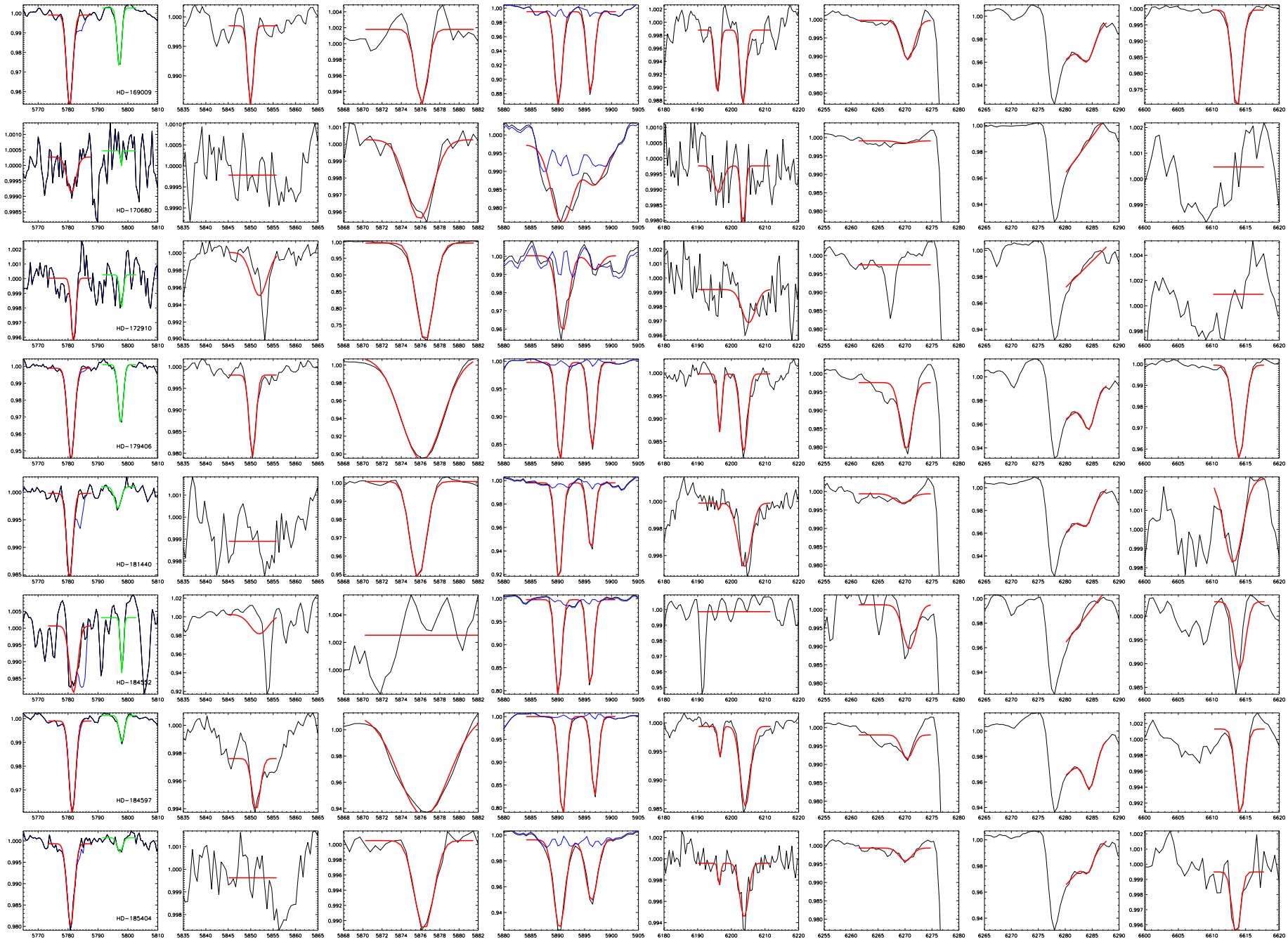
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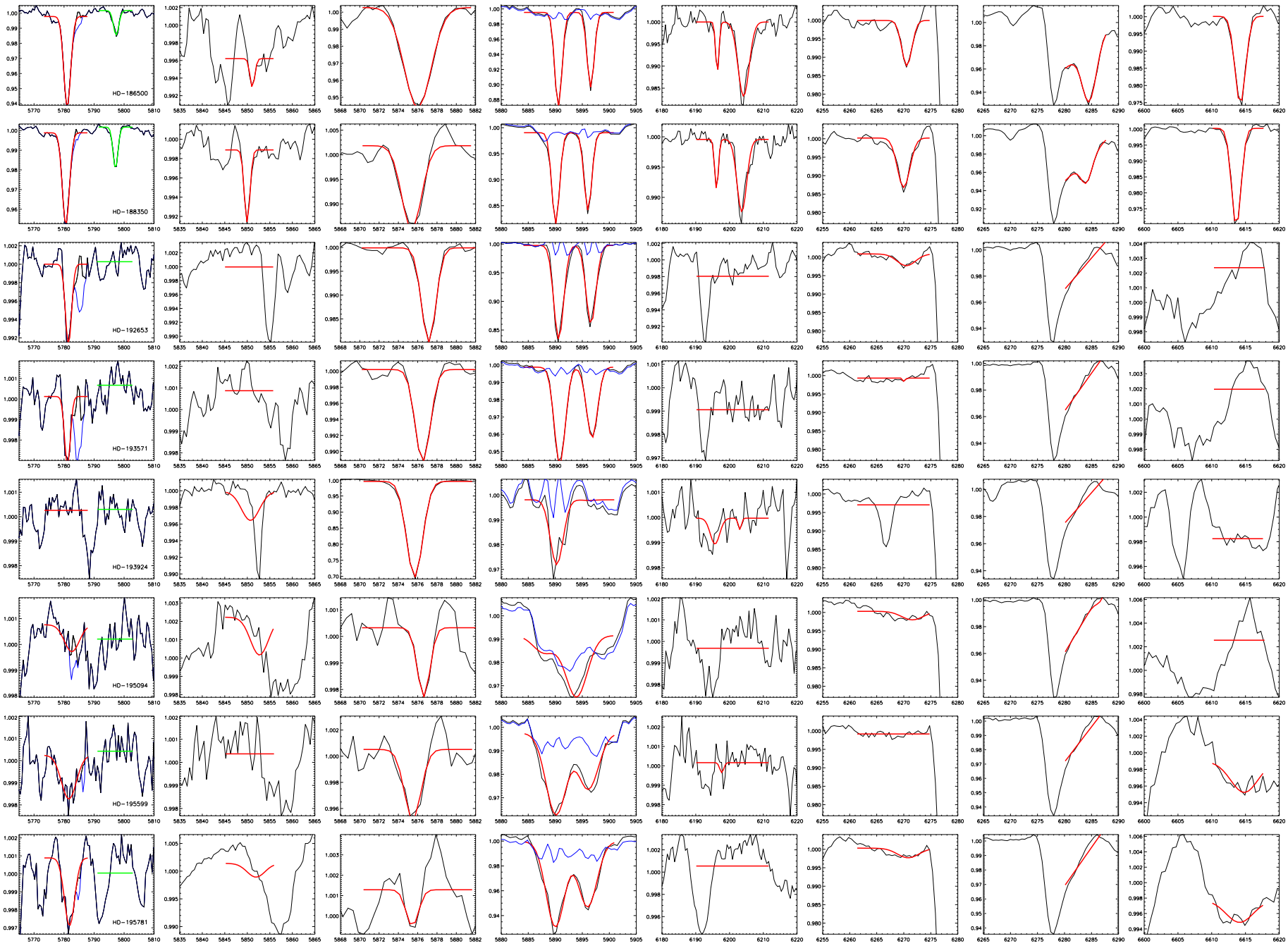
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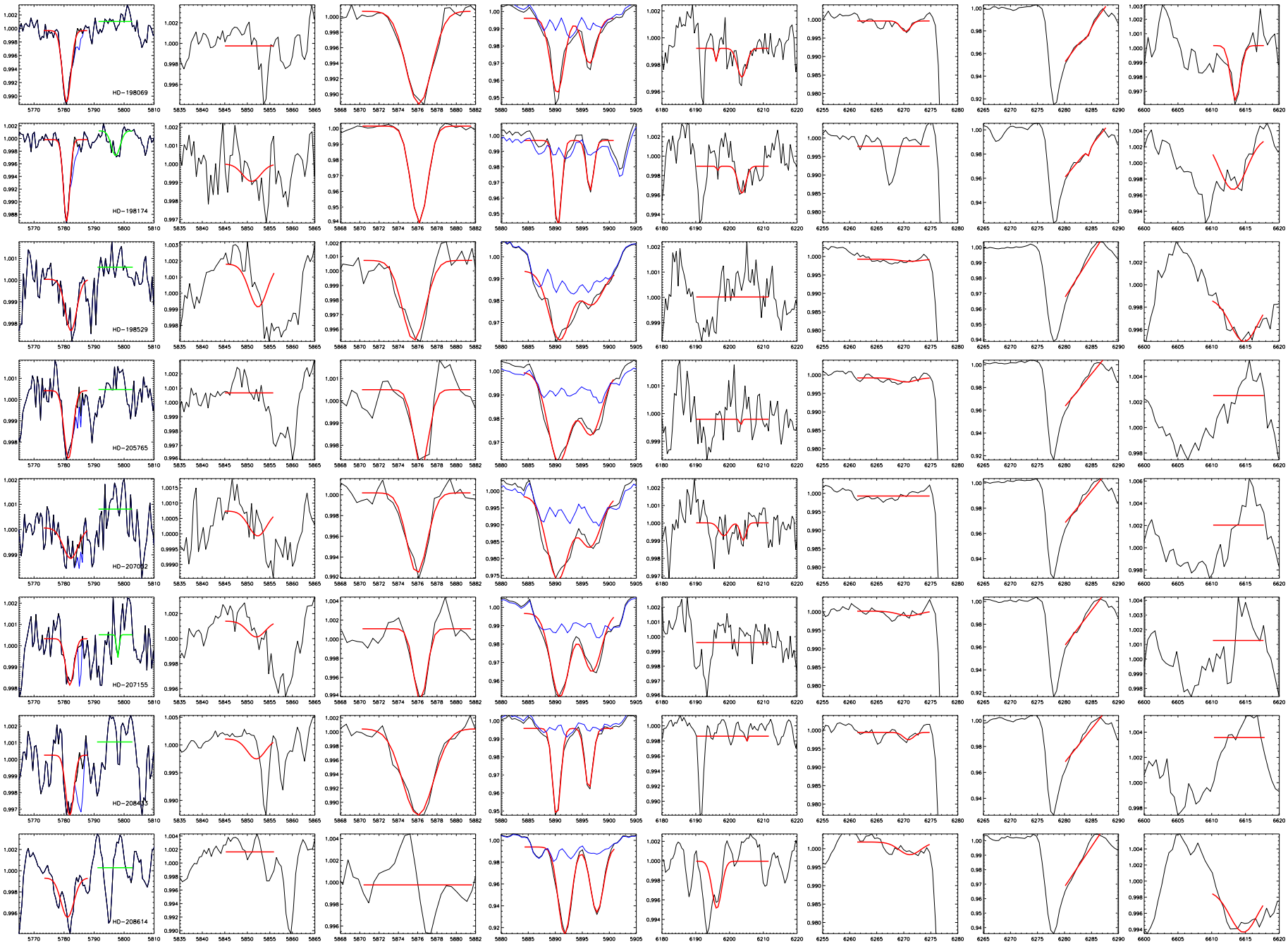
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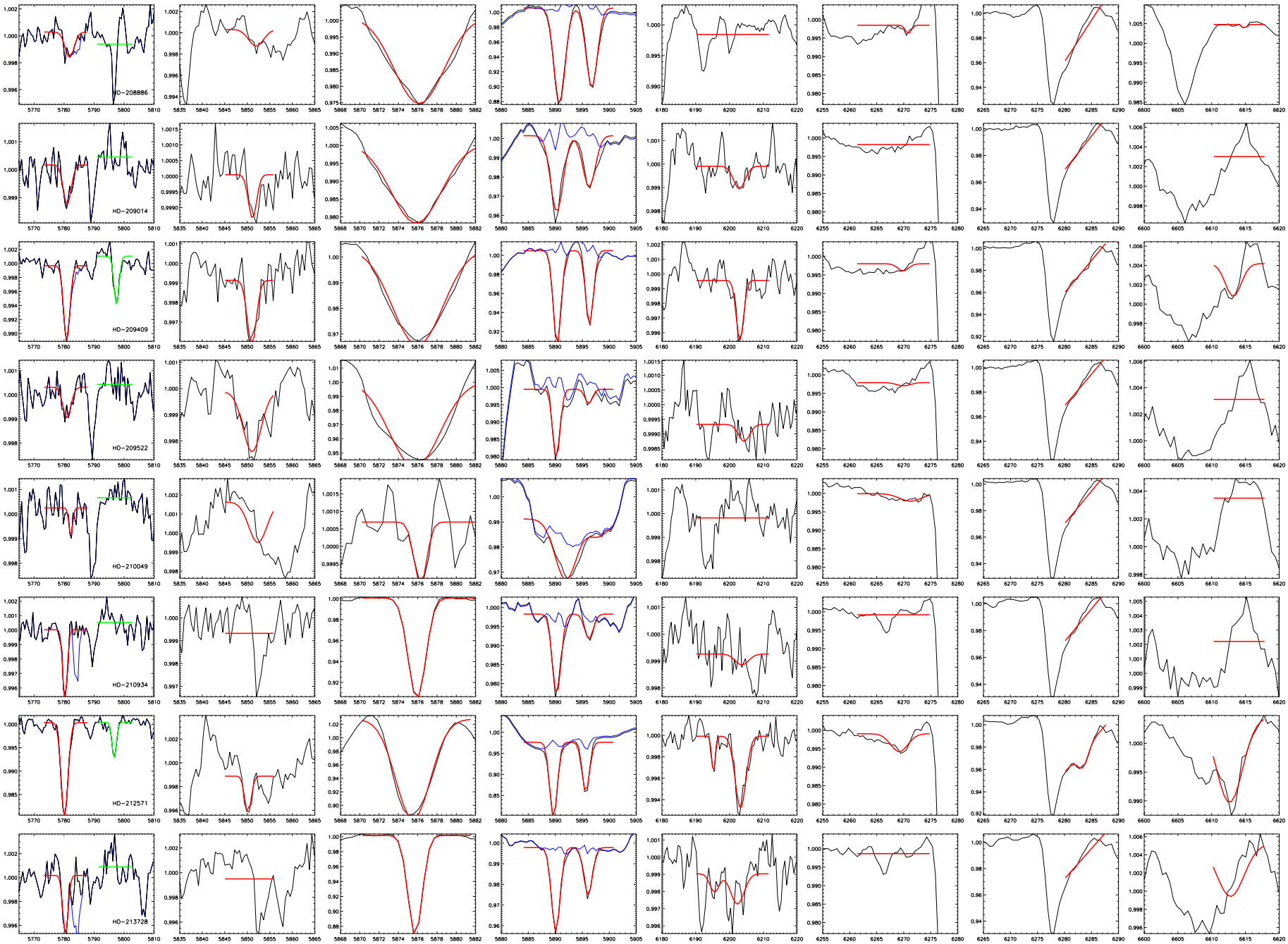
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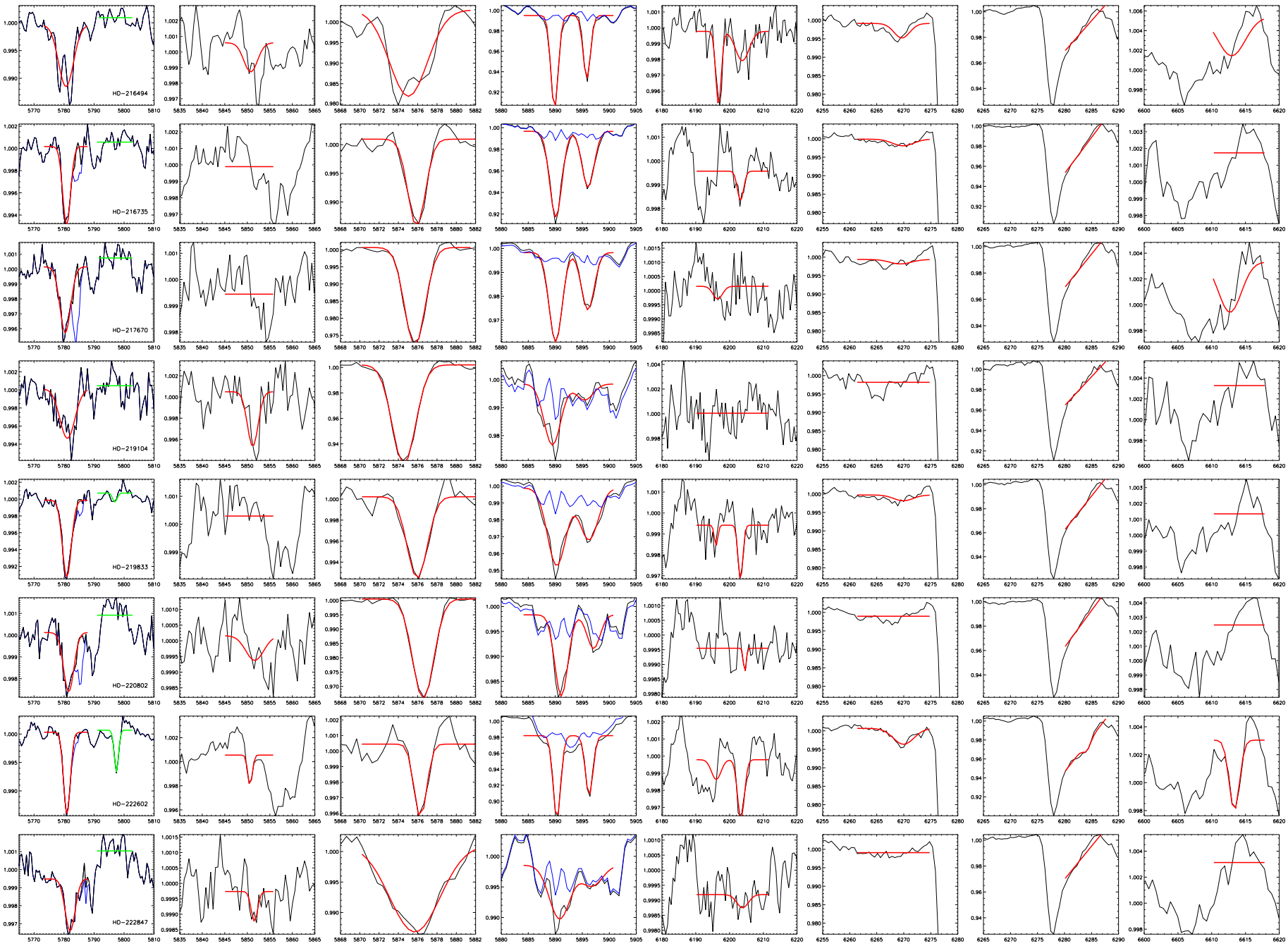
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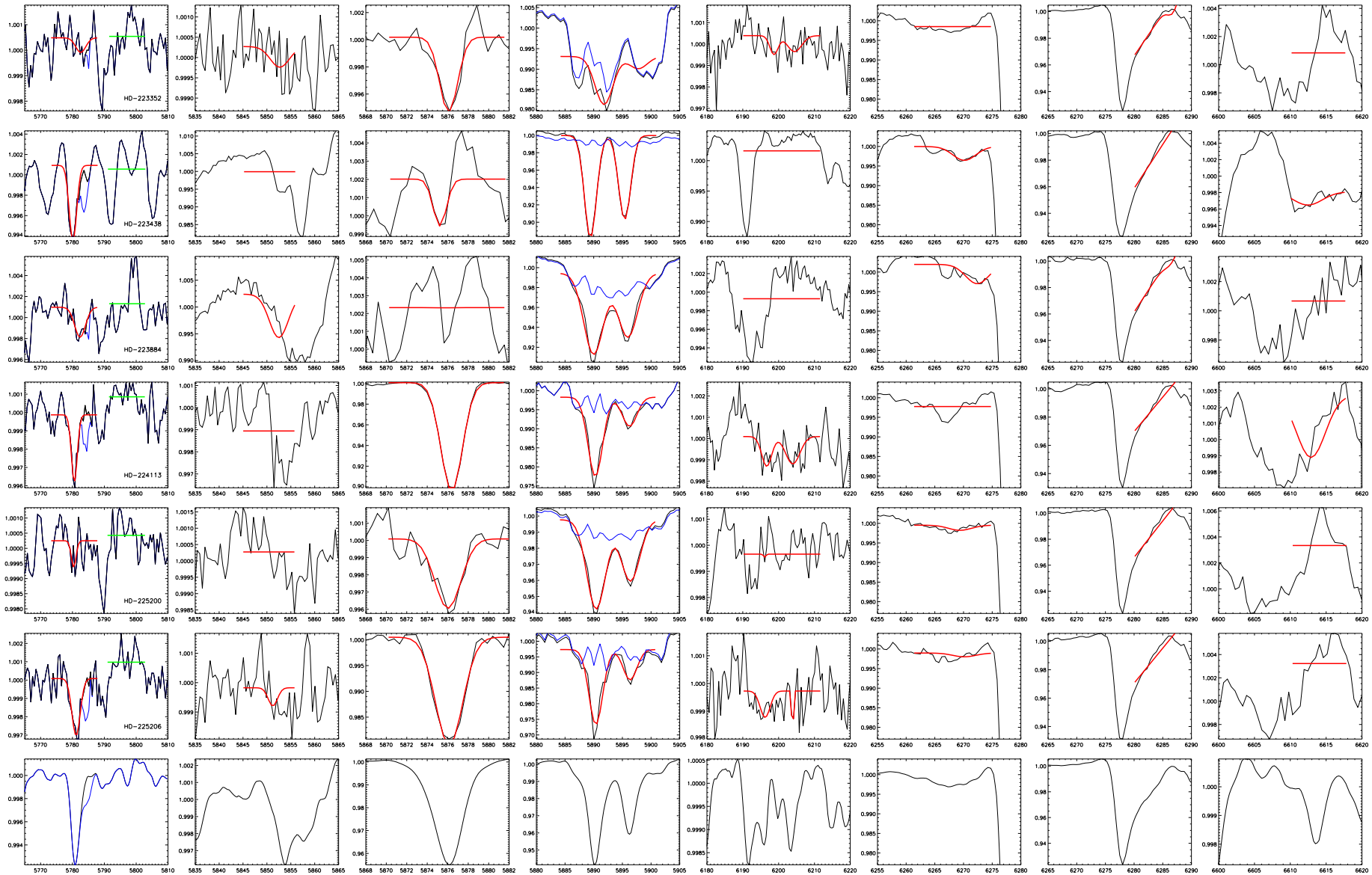
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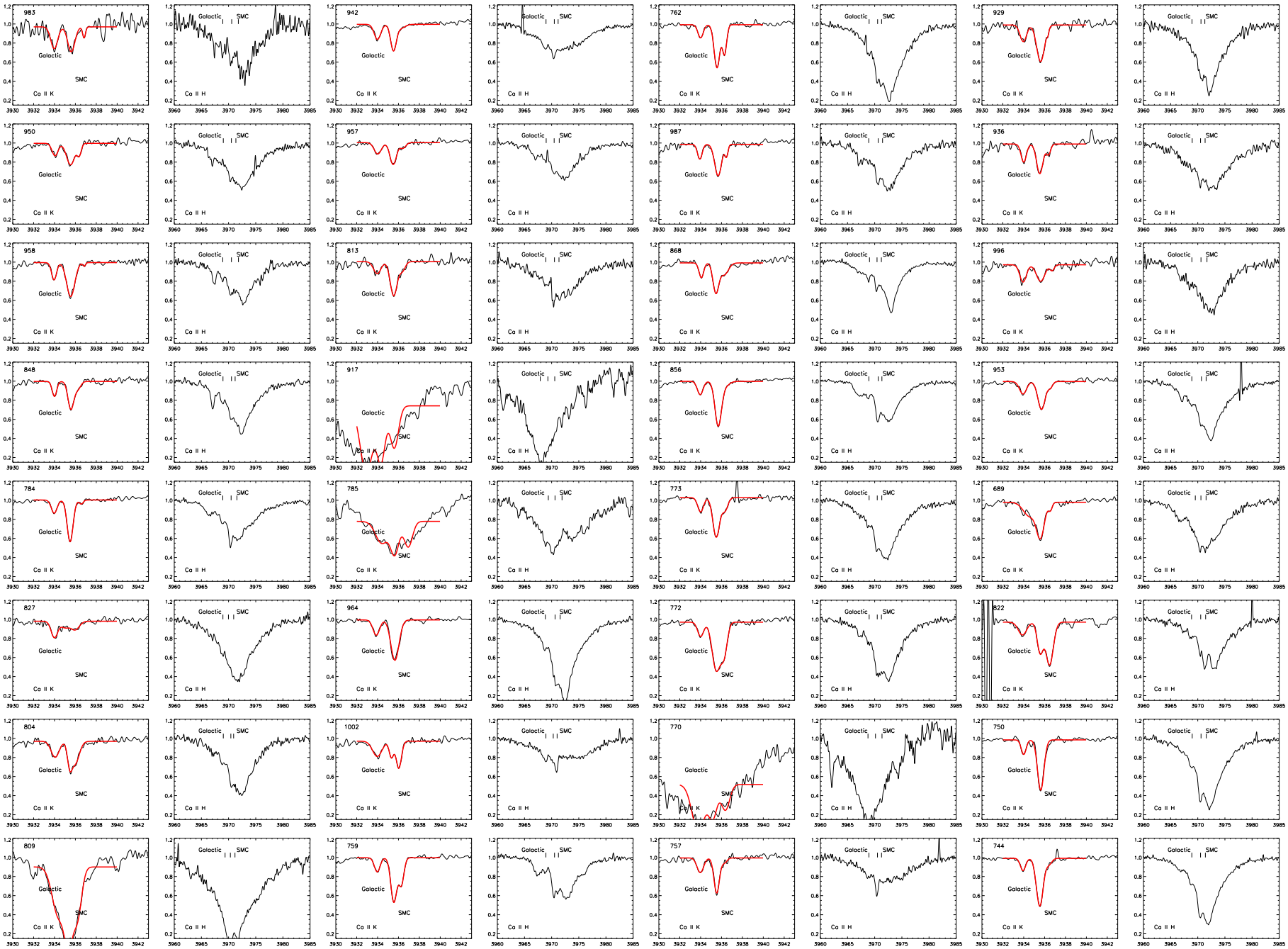
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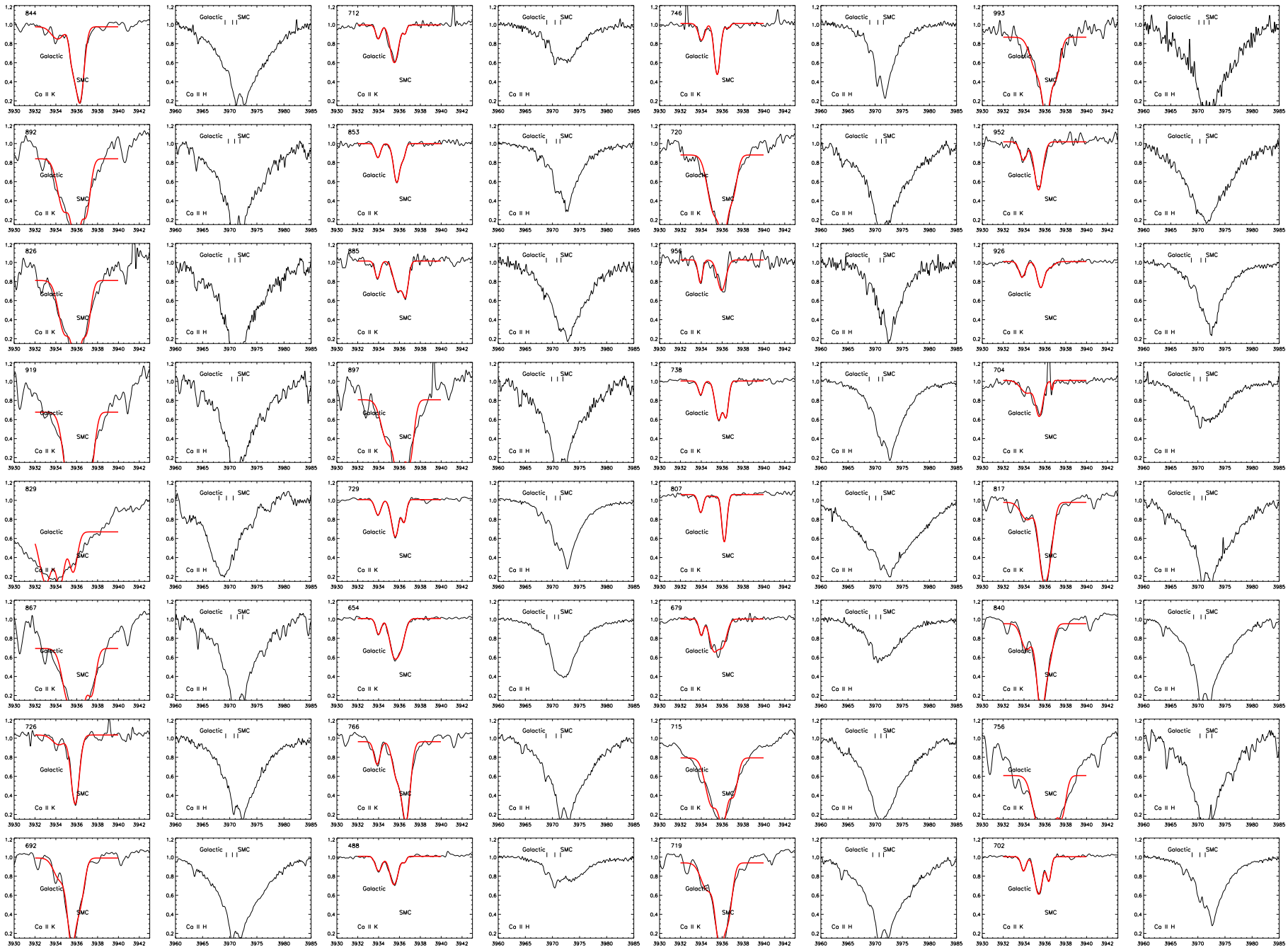
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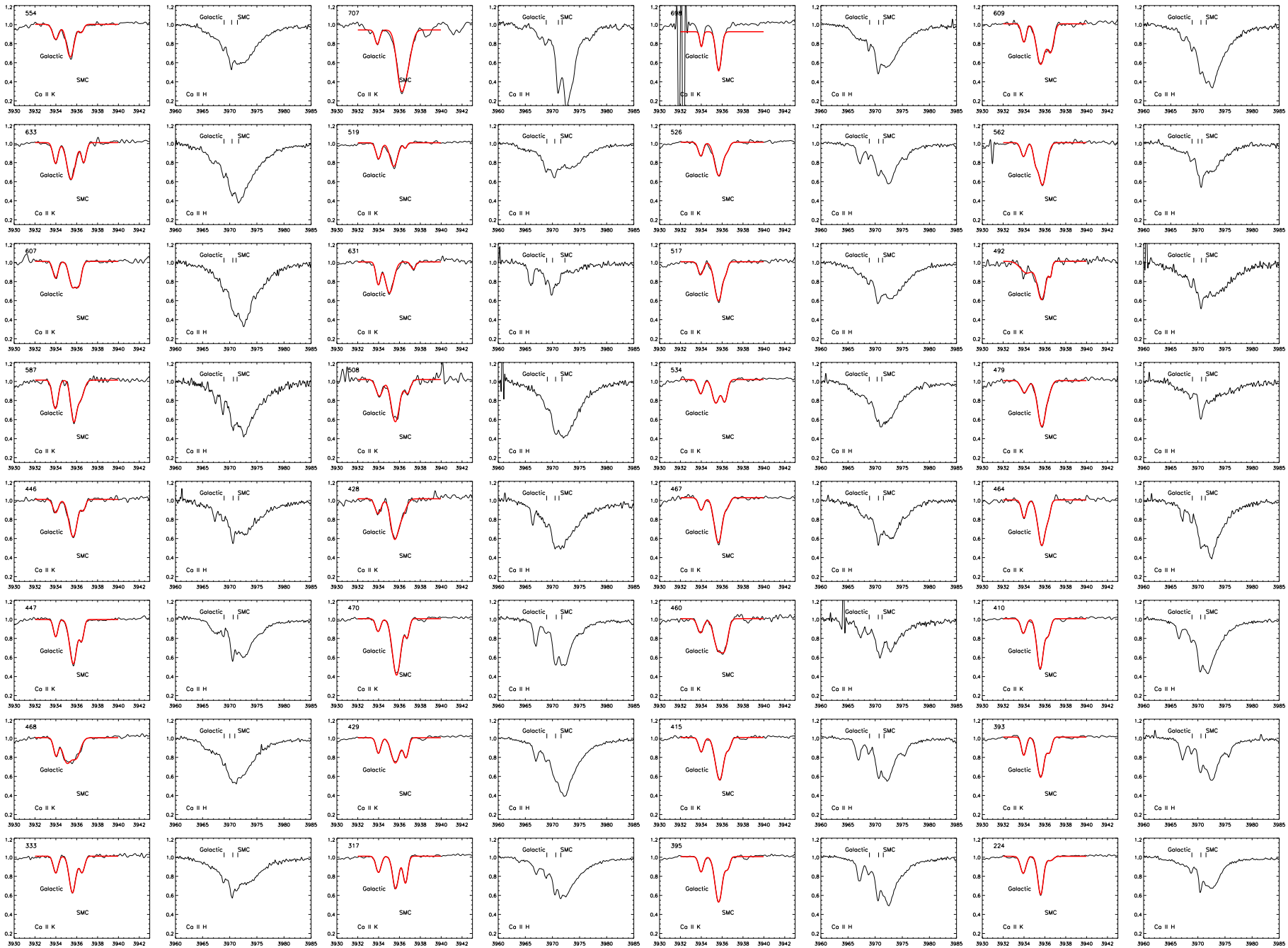
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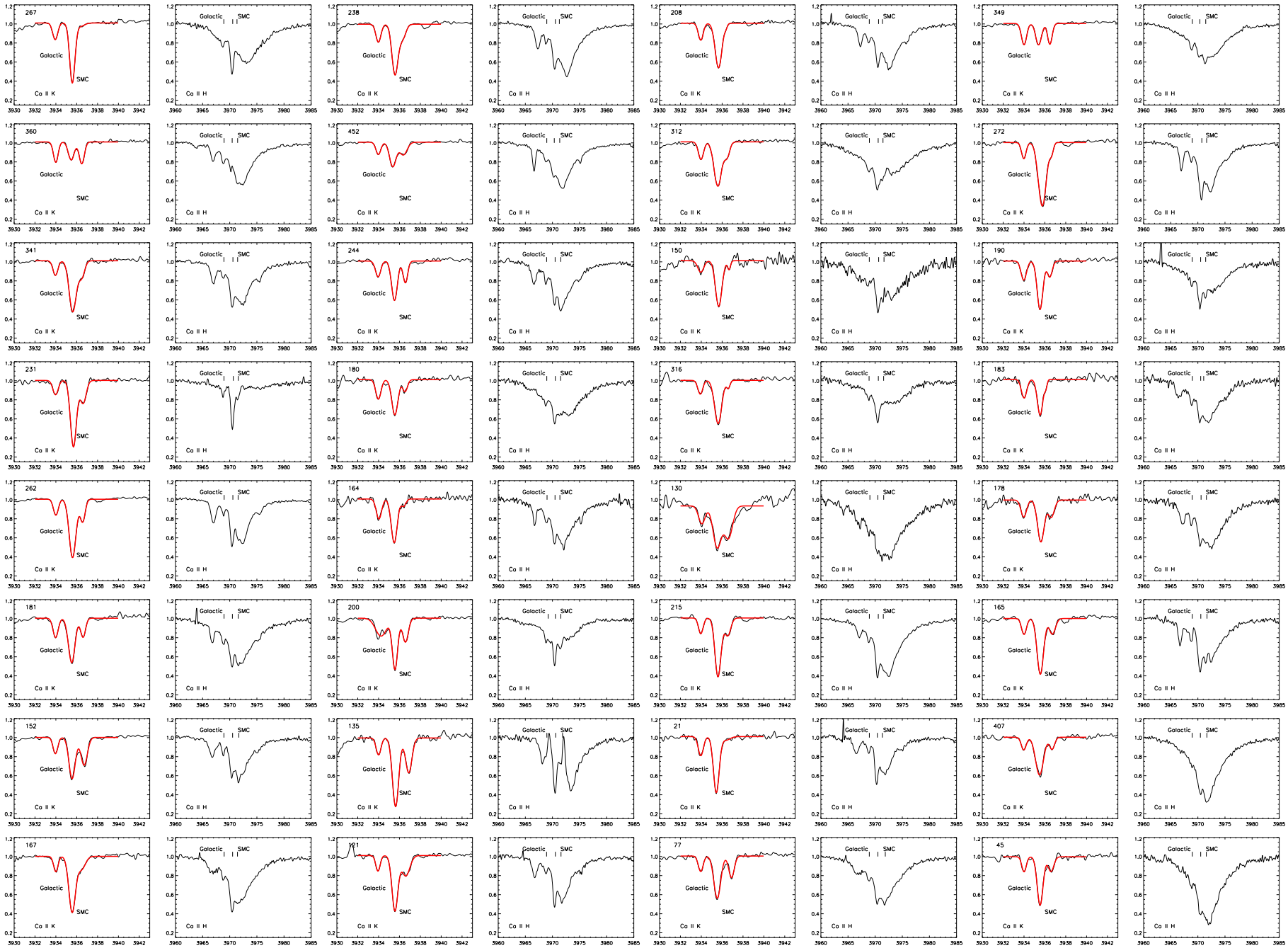
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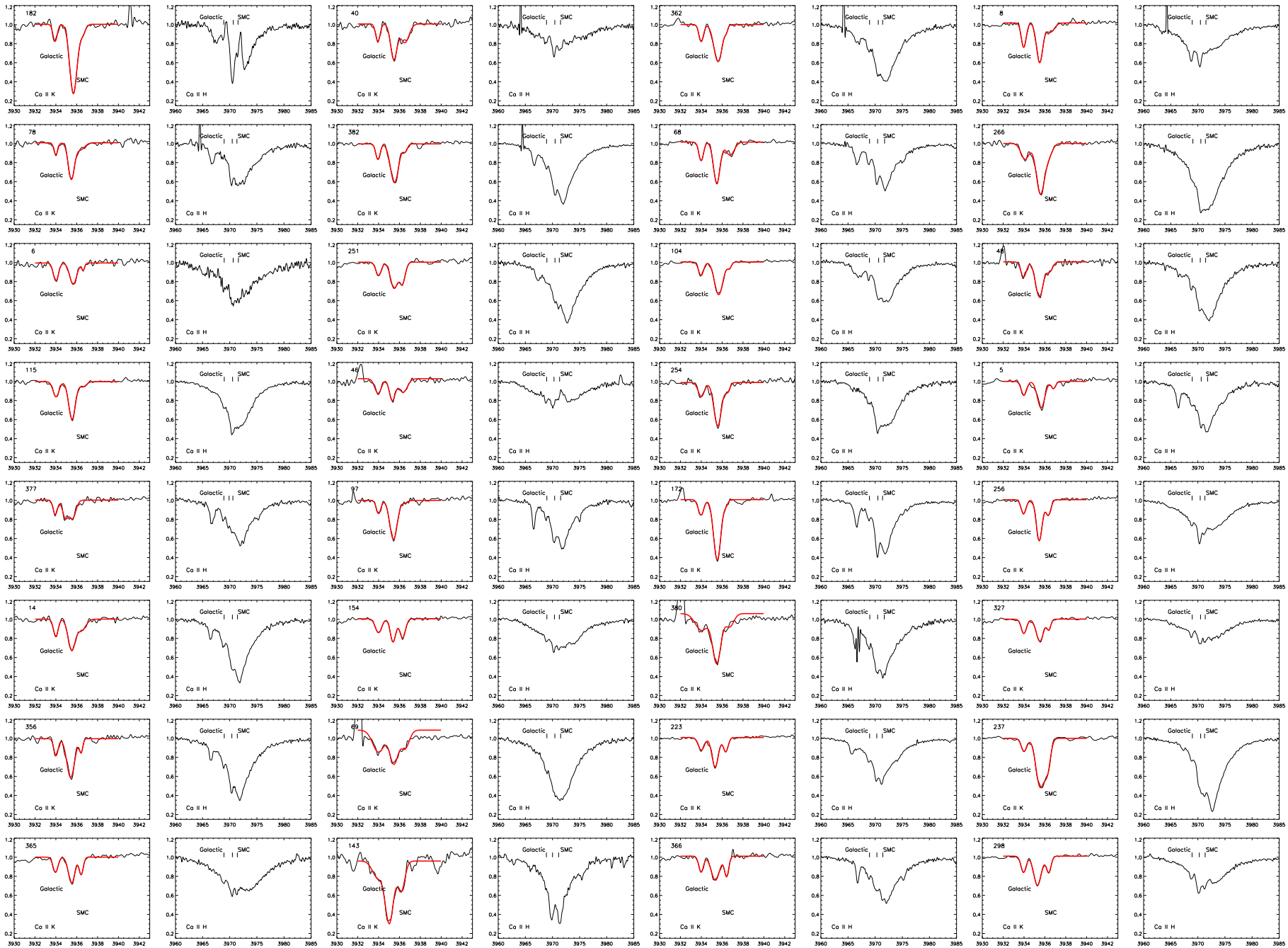
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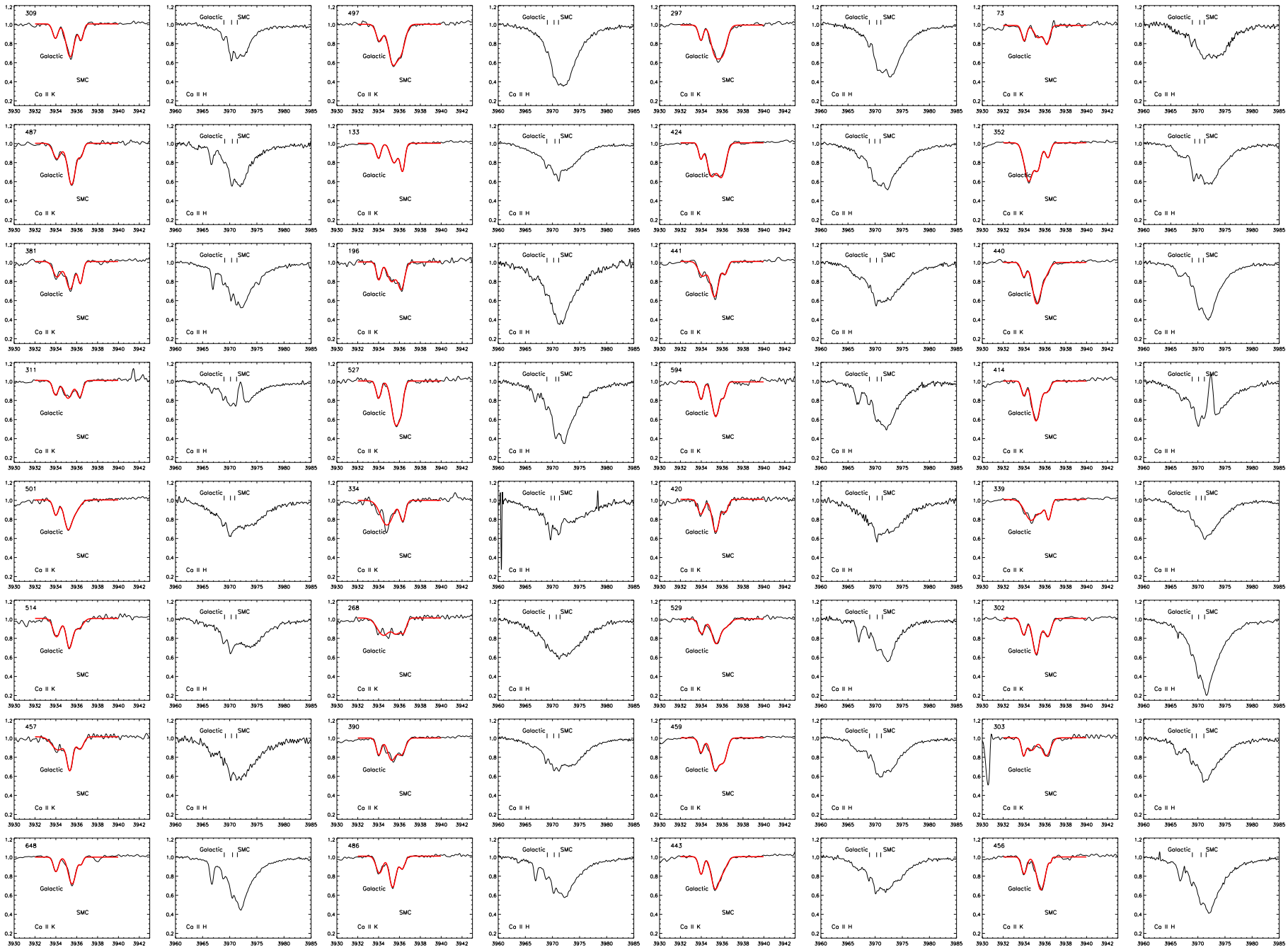
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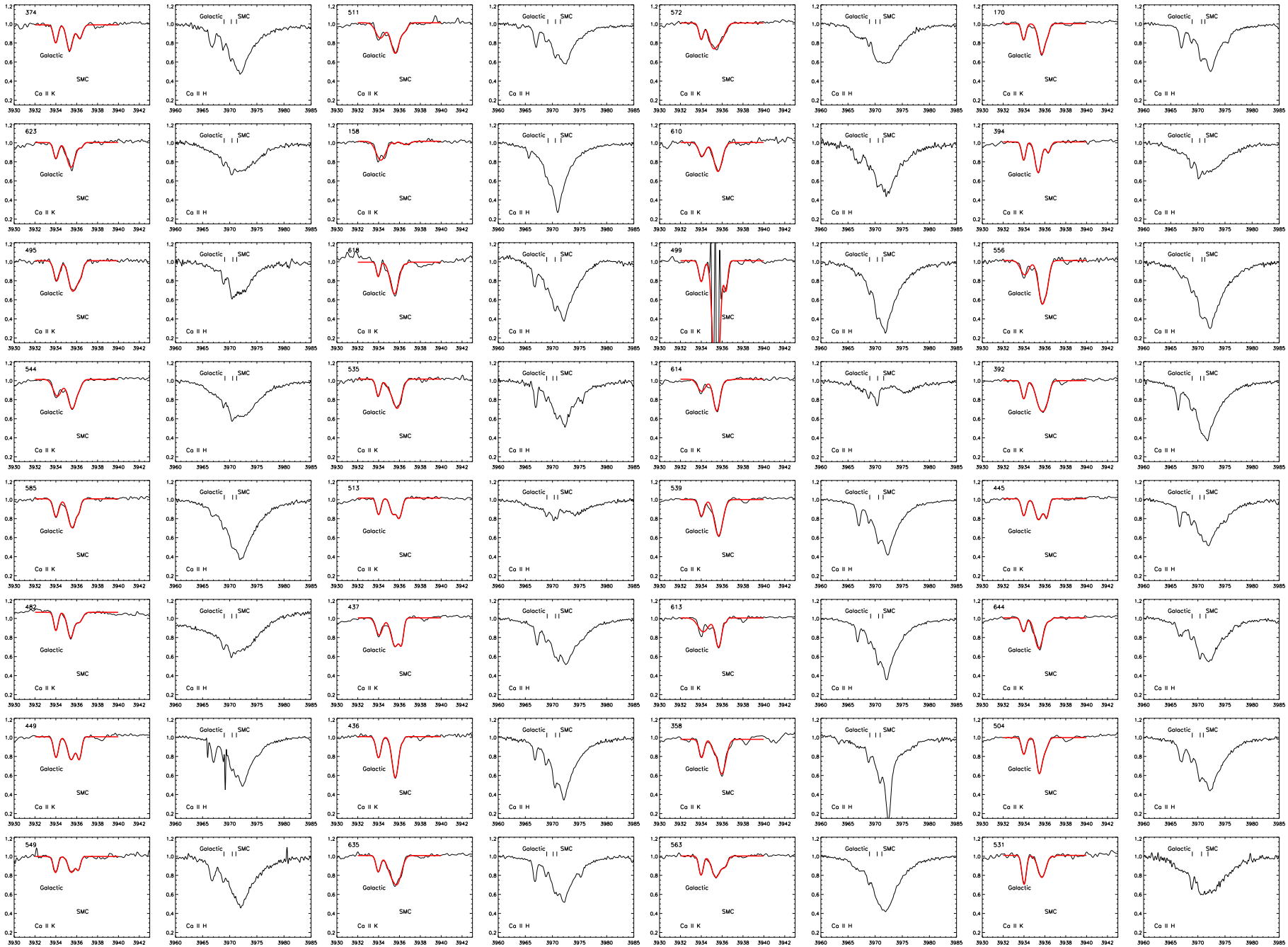
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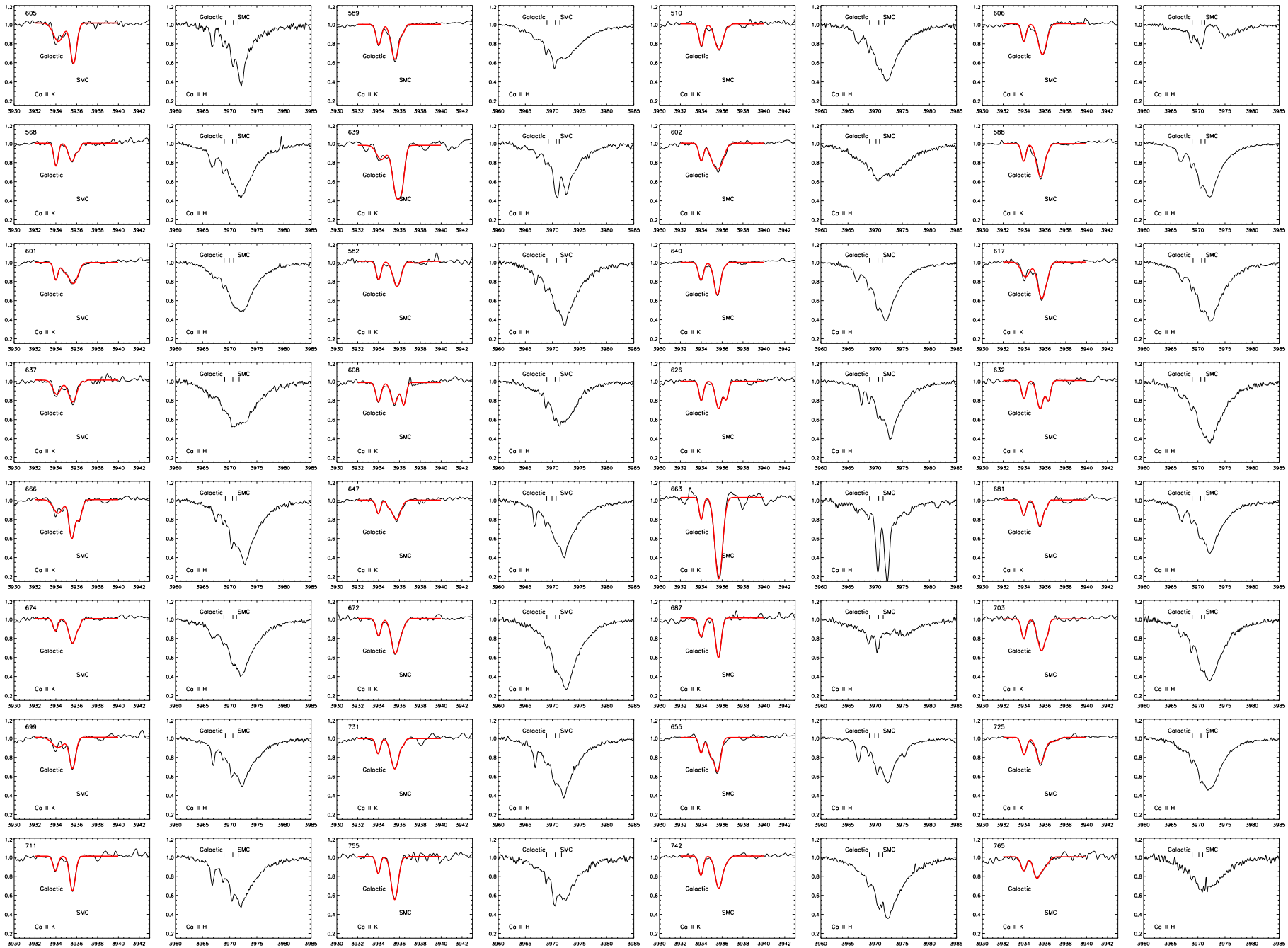
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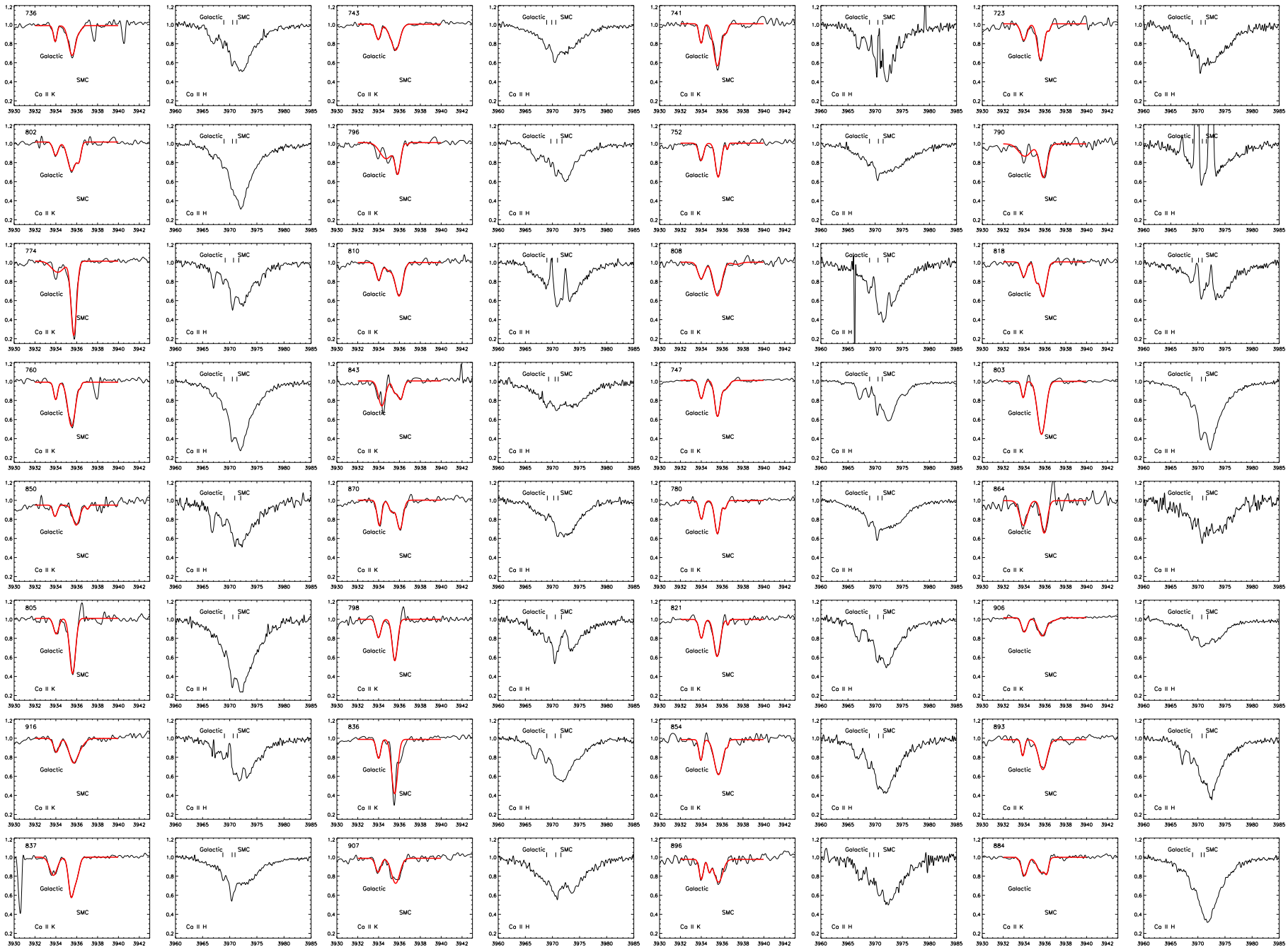
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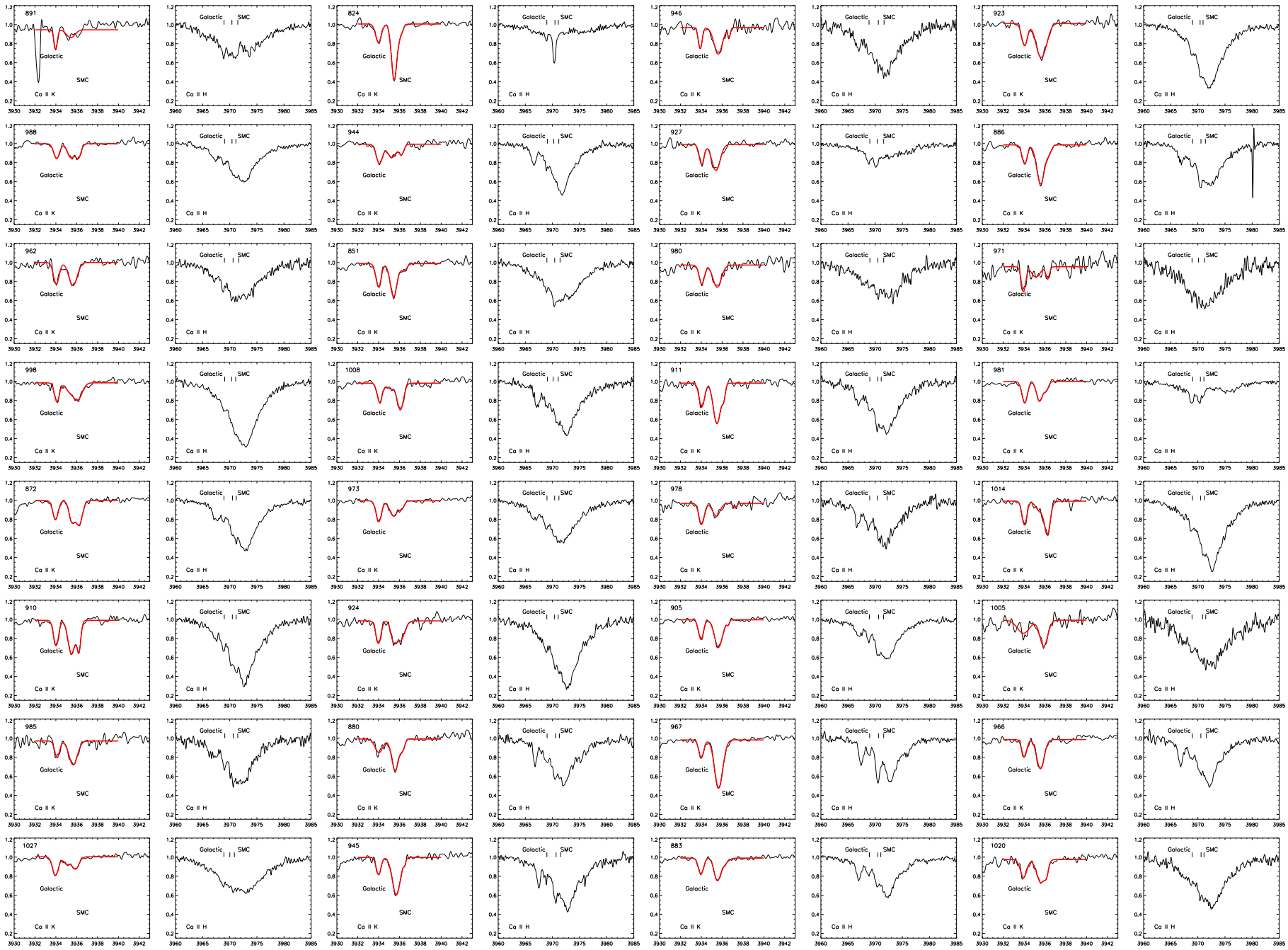
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Ca II H
1008
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
911
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
981
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
872
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
973
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
978
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
1014
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
910
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
924
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
905
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
1005
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
985
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
880
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
967
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
966
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
1027
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
945
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
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Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
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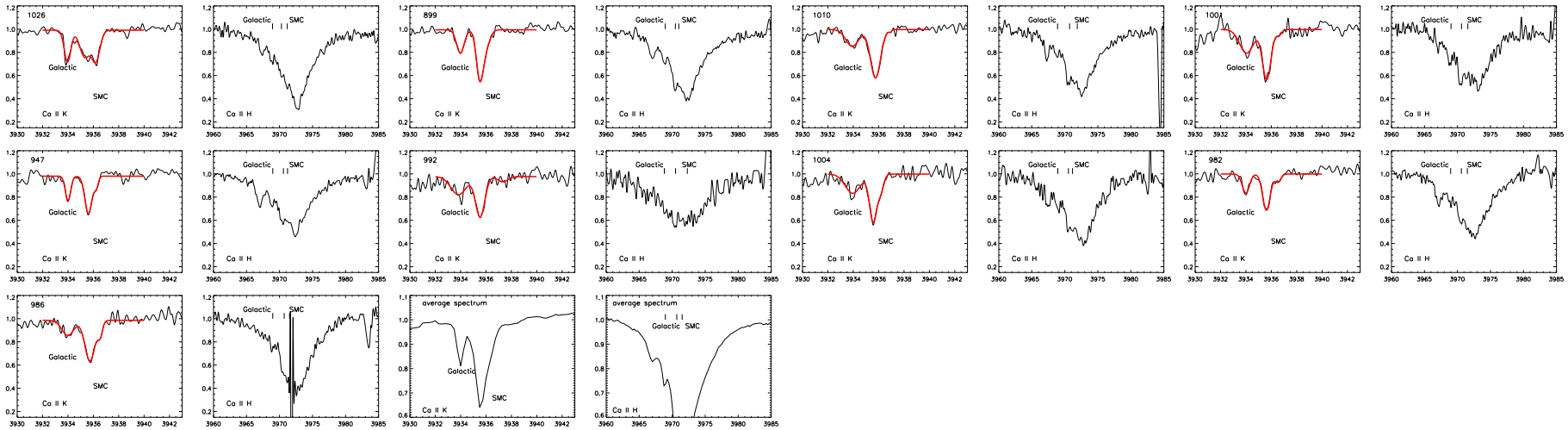
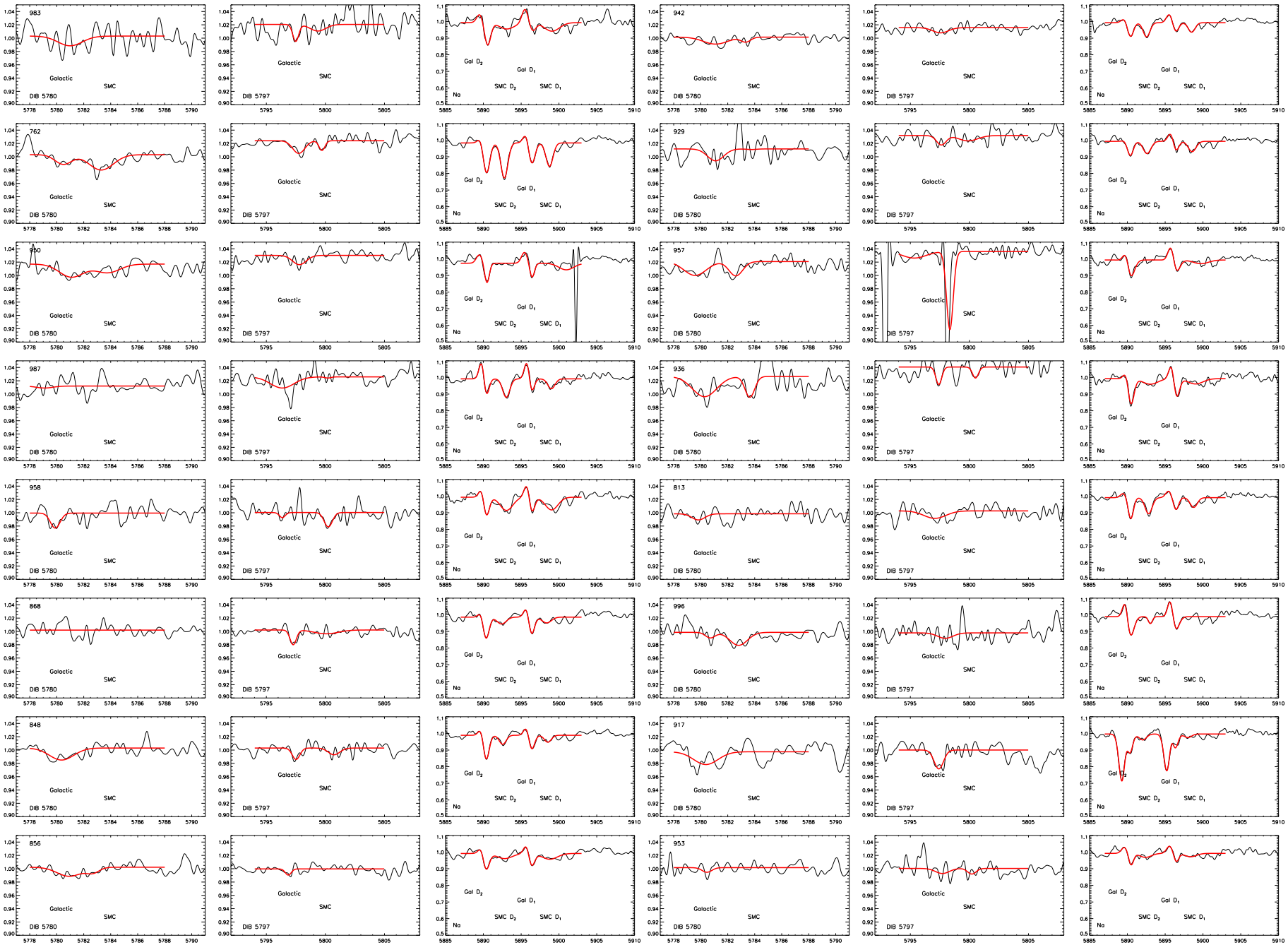
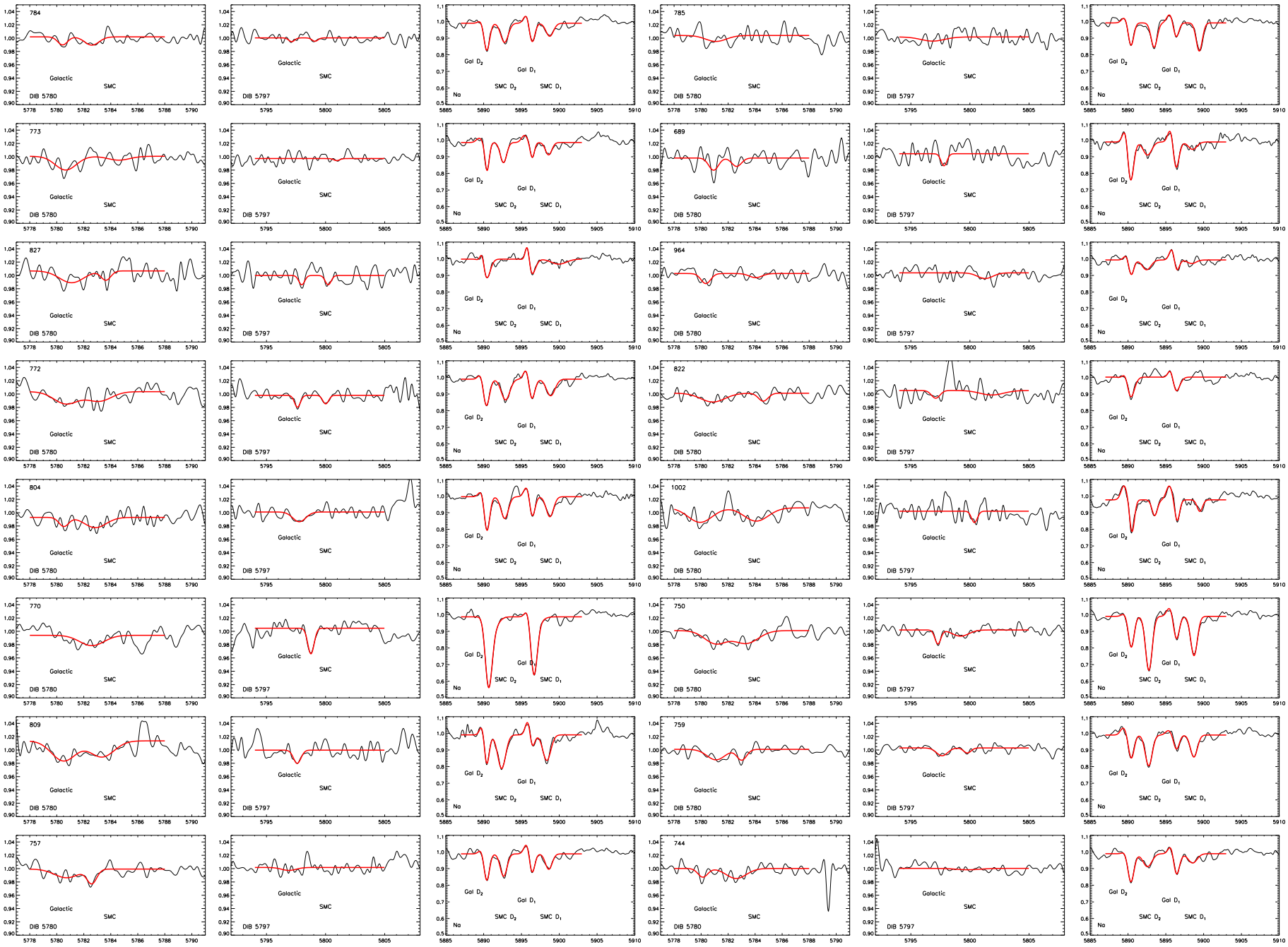
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H


1026
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
899
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
1010
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
100
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
947
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
992
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
1004
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
982
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
986
Galactic
SMC
Ca II K
Galactic
SMC
Ca II H
average spectrum
Galactic
SMC
Ca II K
average spectrum
Galactic
SMC
Ca II H


983
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
942
762
929
960
957
987
936
958
813
868
996
848
917
856
953


784
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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785
773
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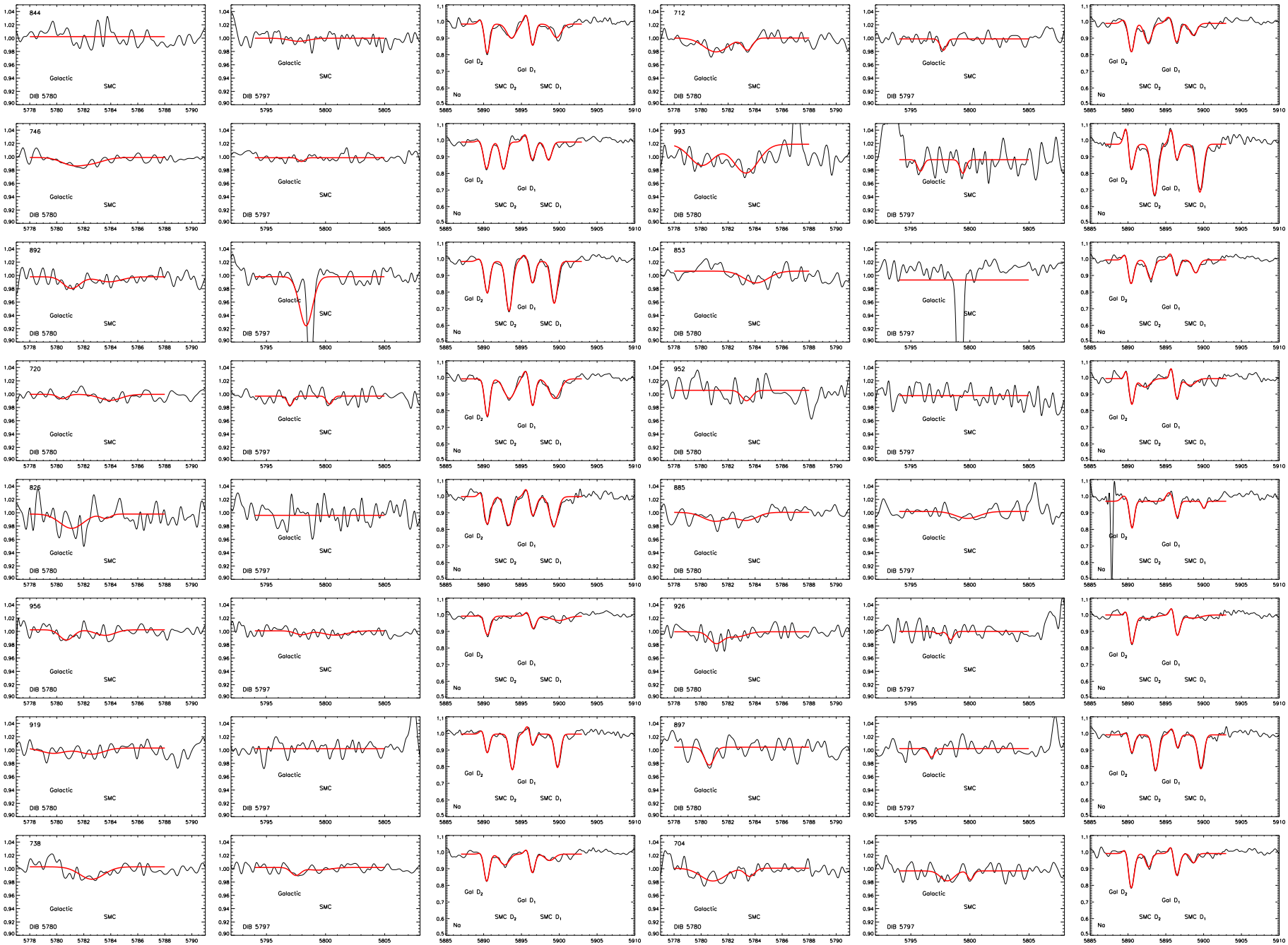
822
804
1002
770
750
809
759
757
744


844
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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993
892
853
720
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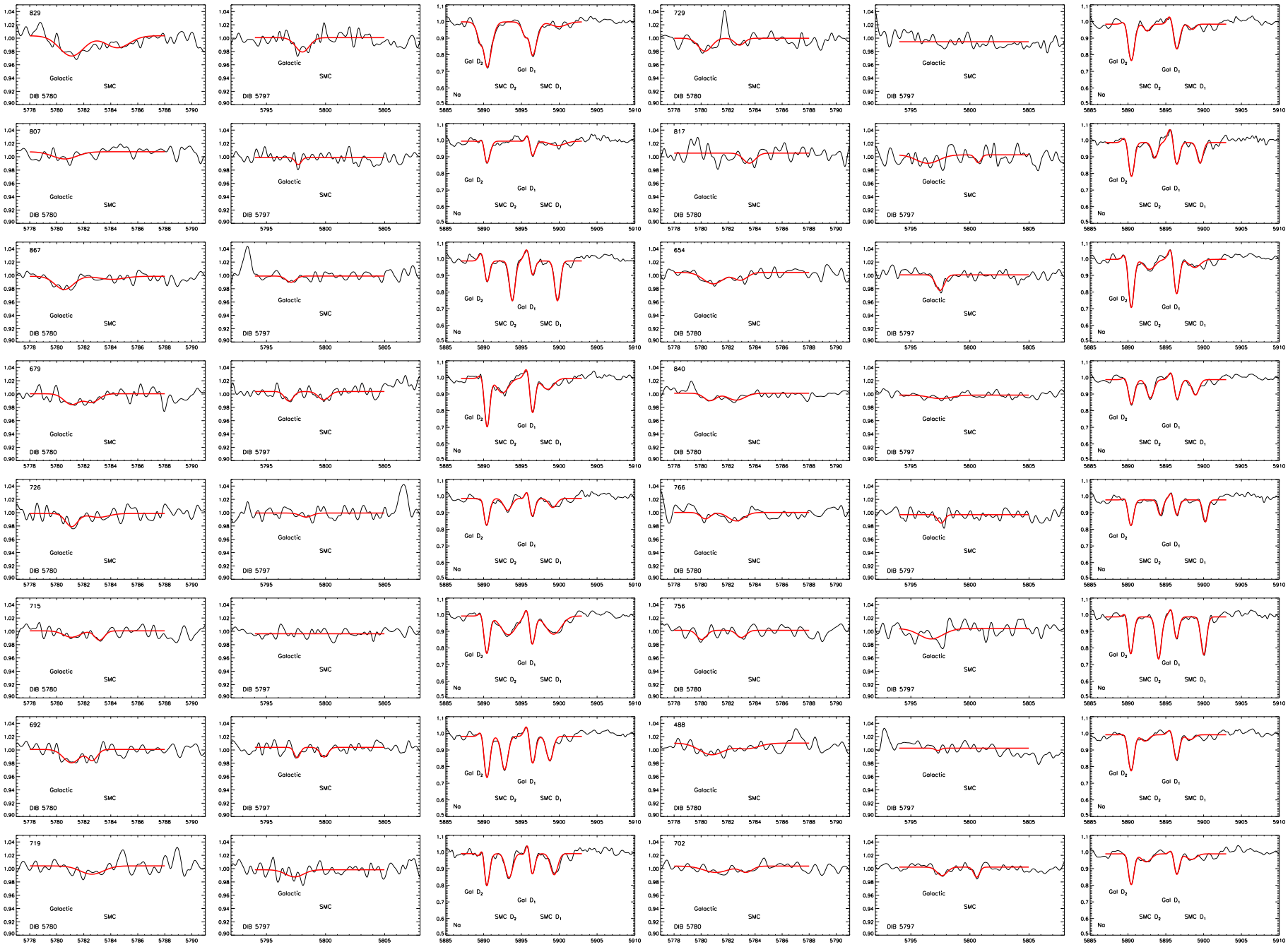
885
956
926
919
897
738
704


829
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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729
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726
766
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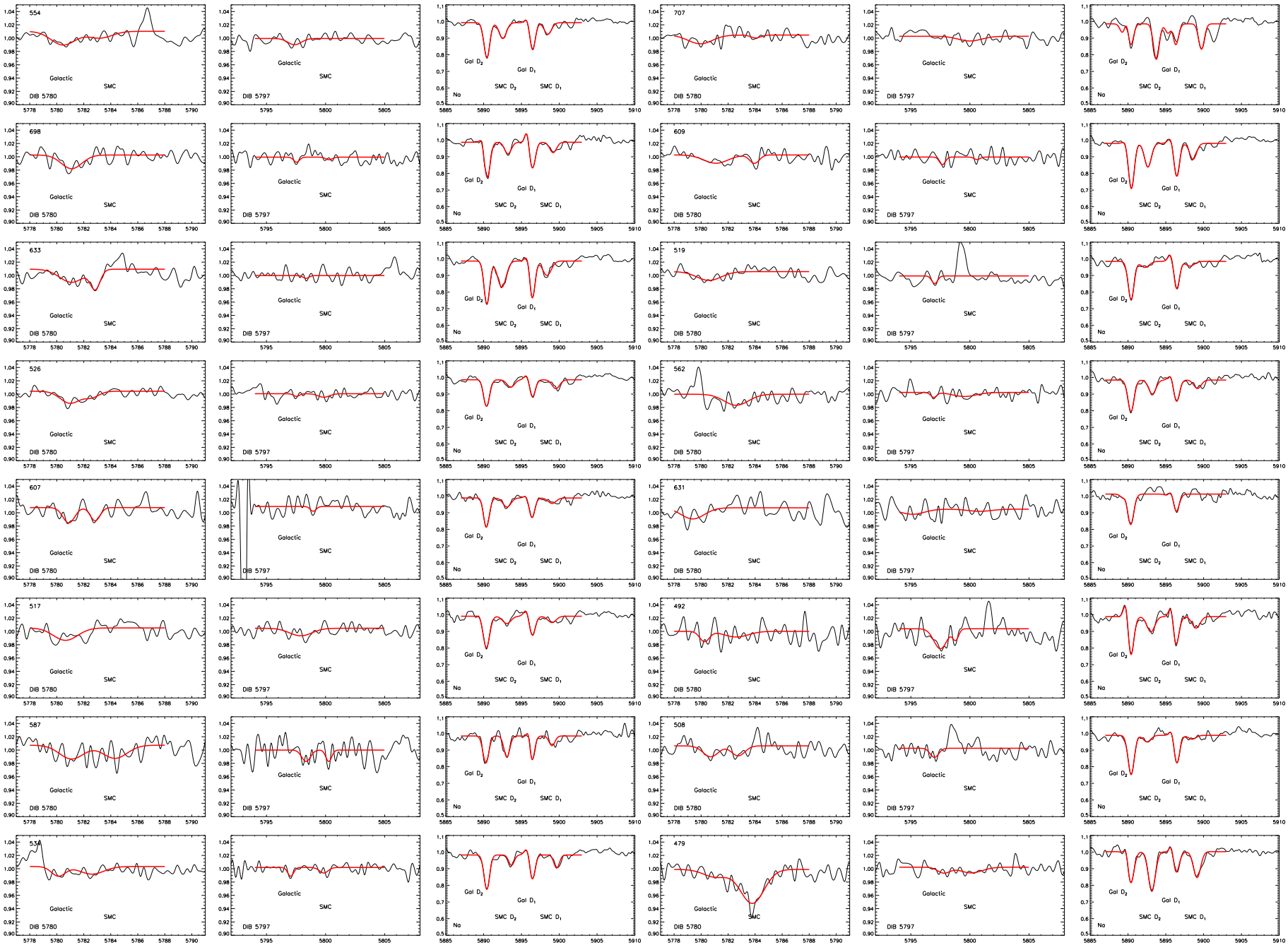
756
692
488
719
702


554
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
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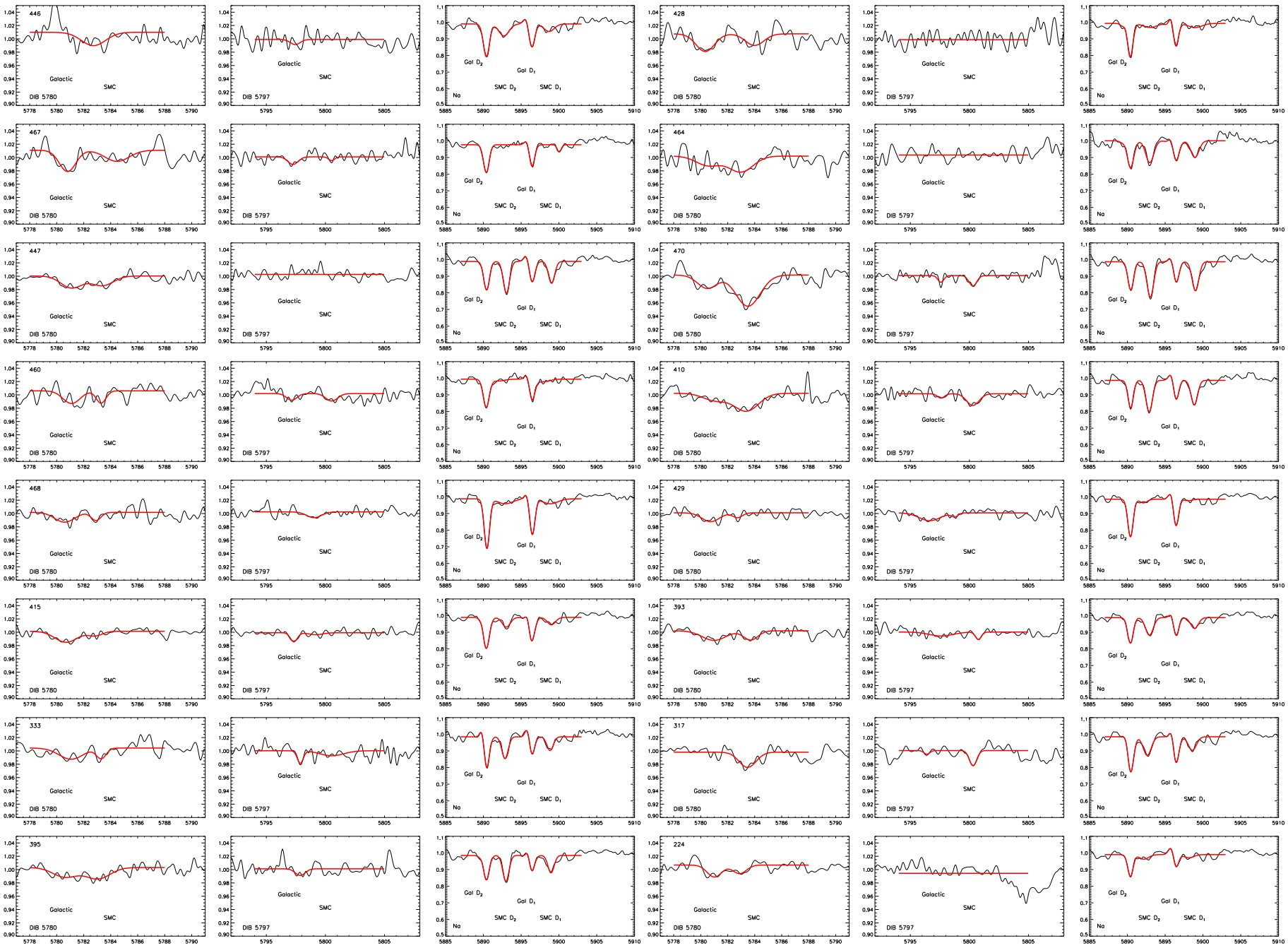
526
562
607
631
517
492
587
508
534
479


446
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
428
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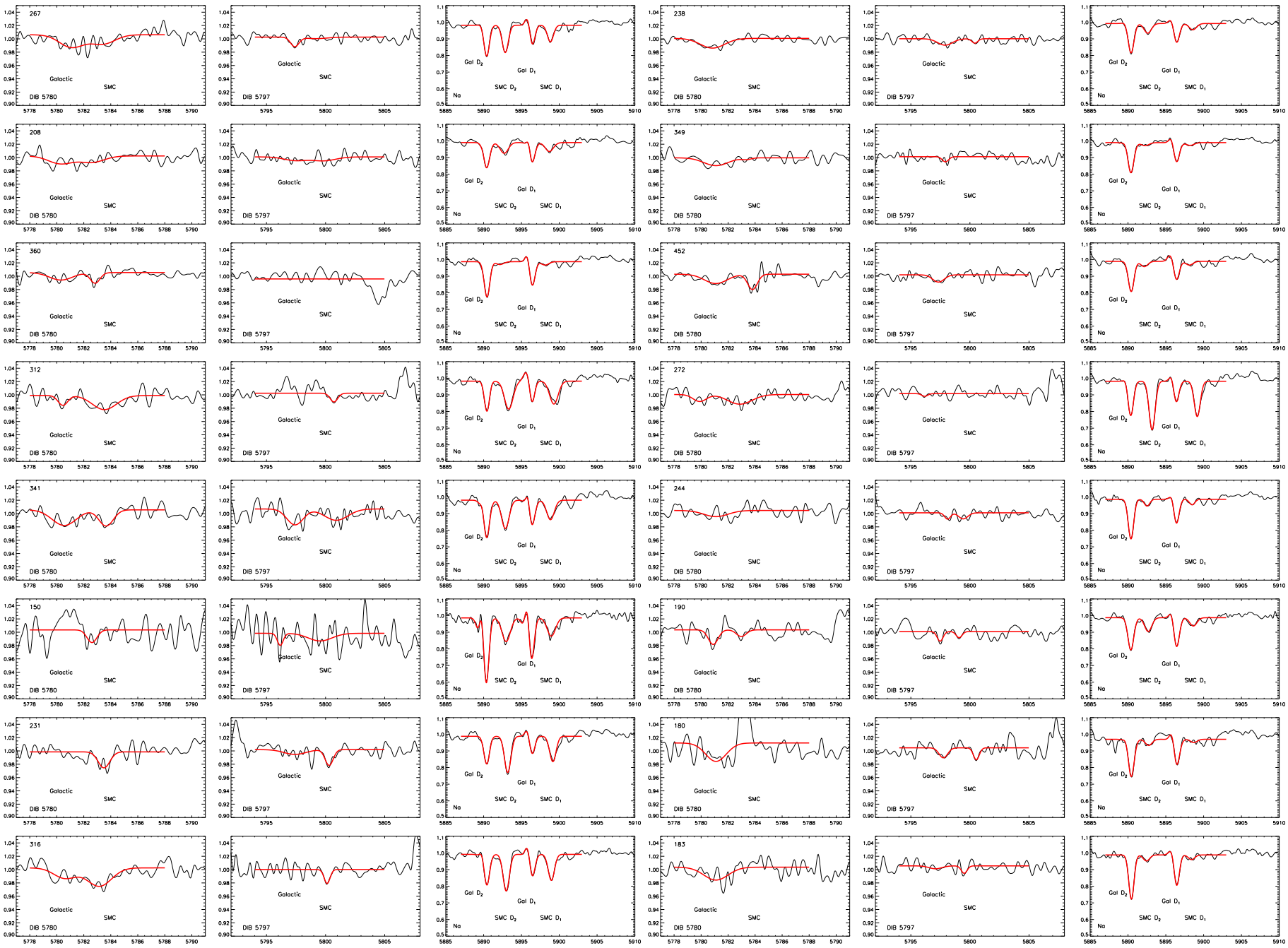
460
410
468
429
415
393
333
317
395
224


267
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
238
208
349
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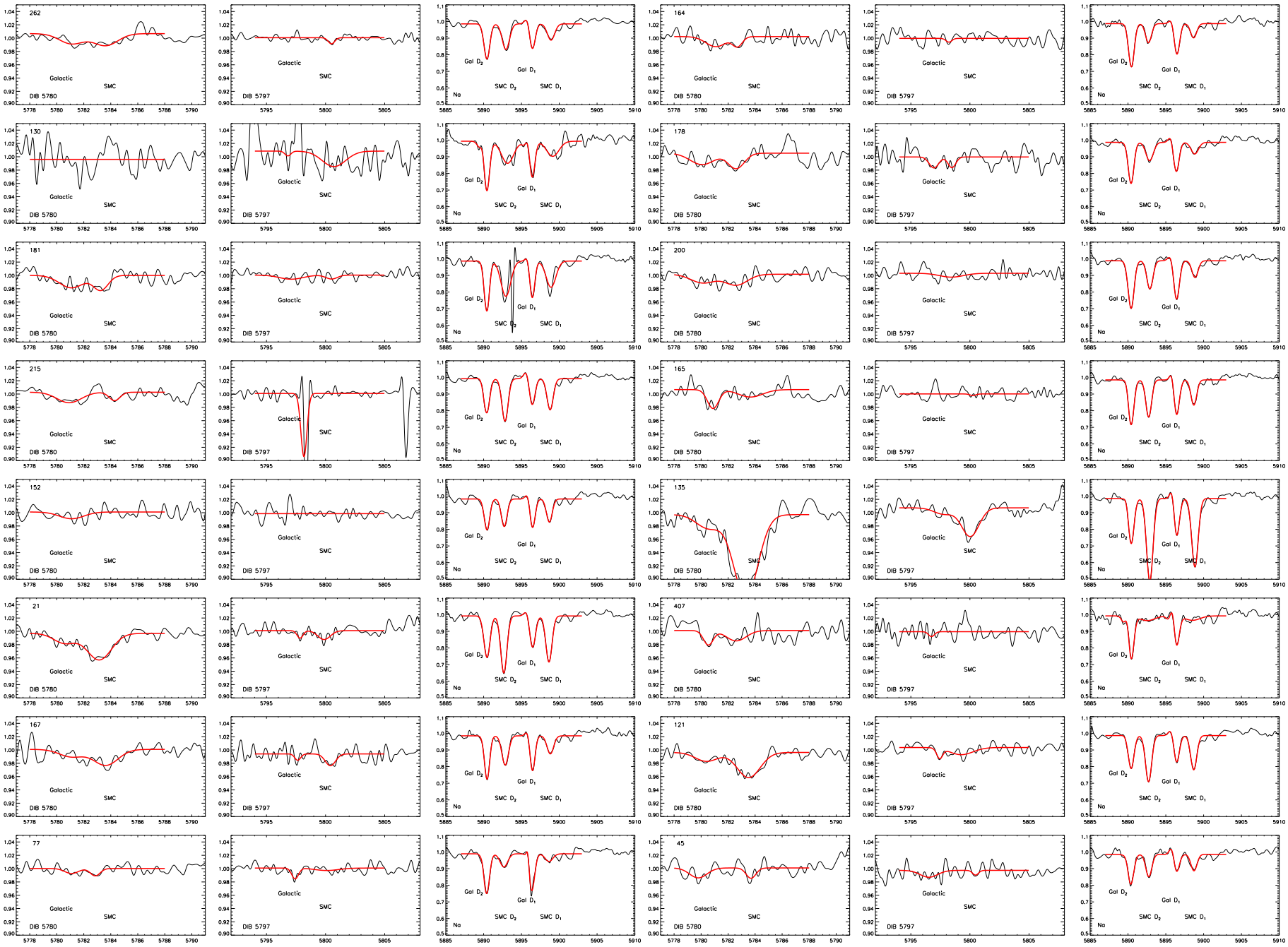
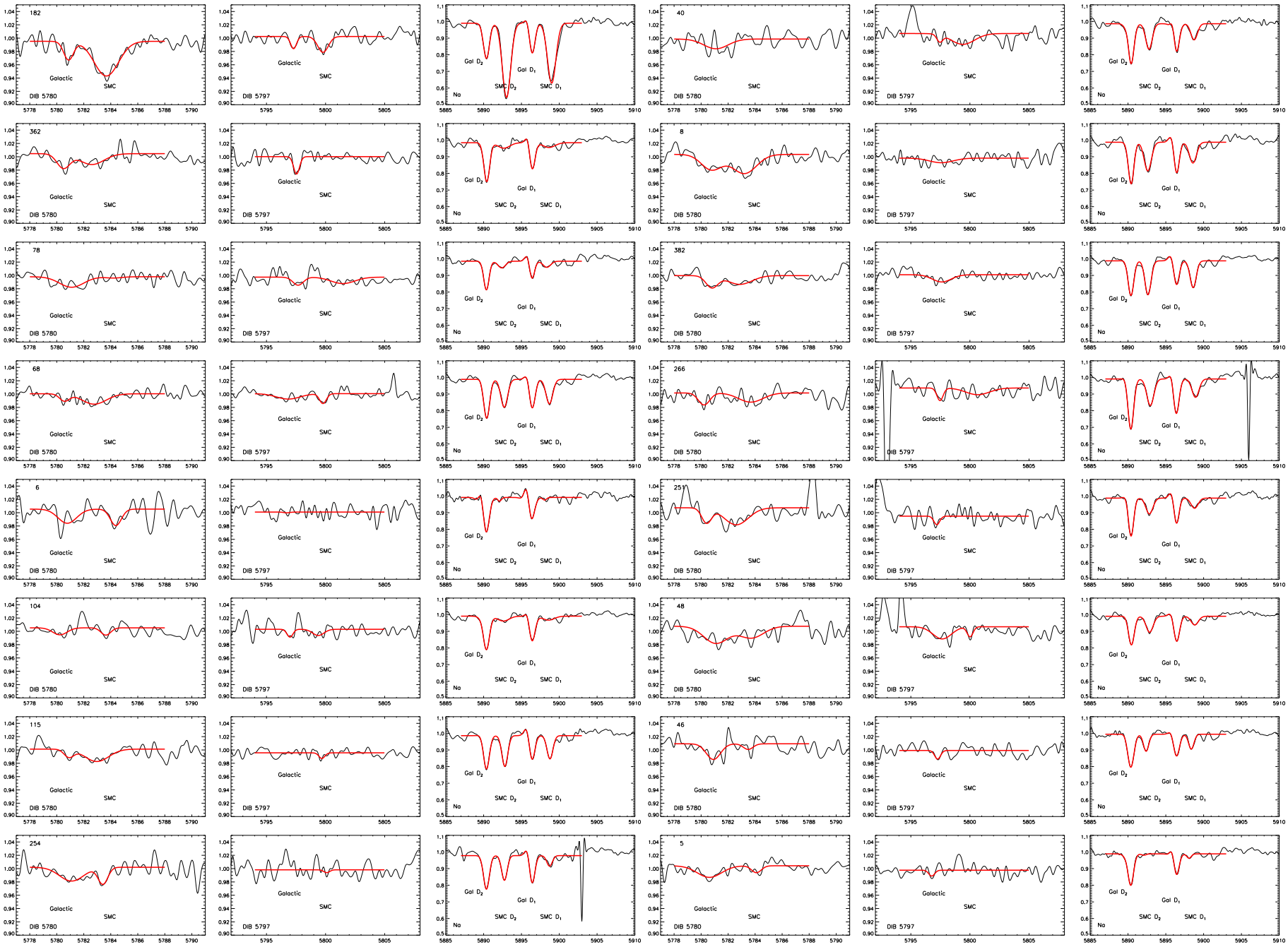
452
312
272
341
244
150
190
231
180
316
183


262
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
164
130
178
181
200
215
165
152
135
21
407
167
121
77
45


182
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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40
362
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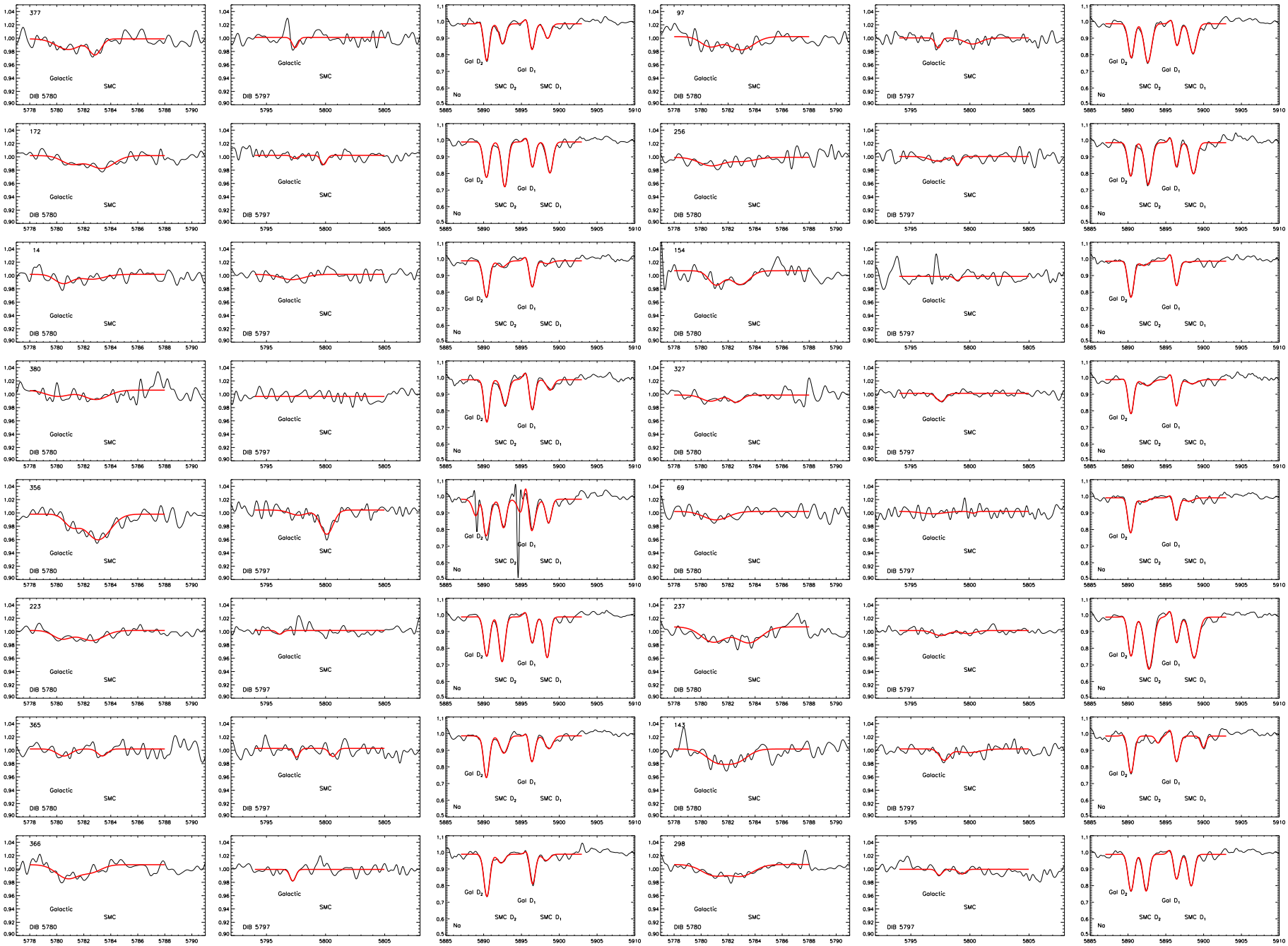
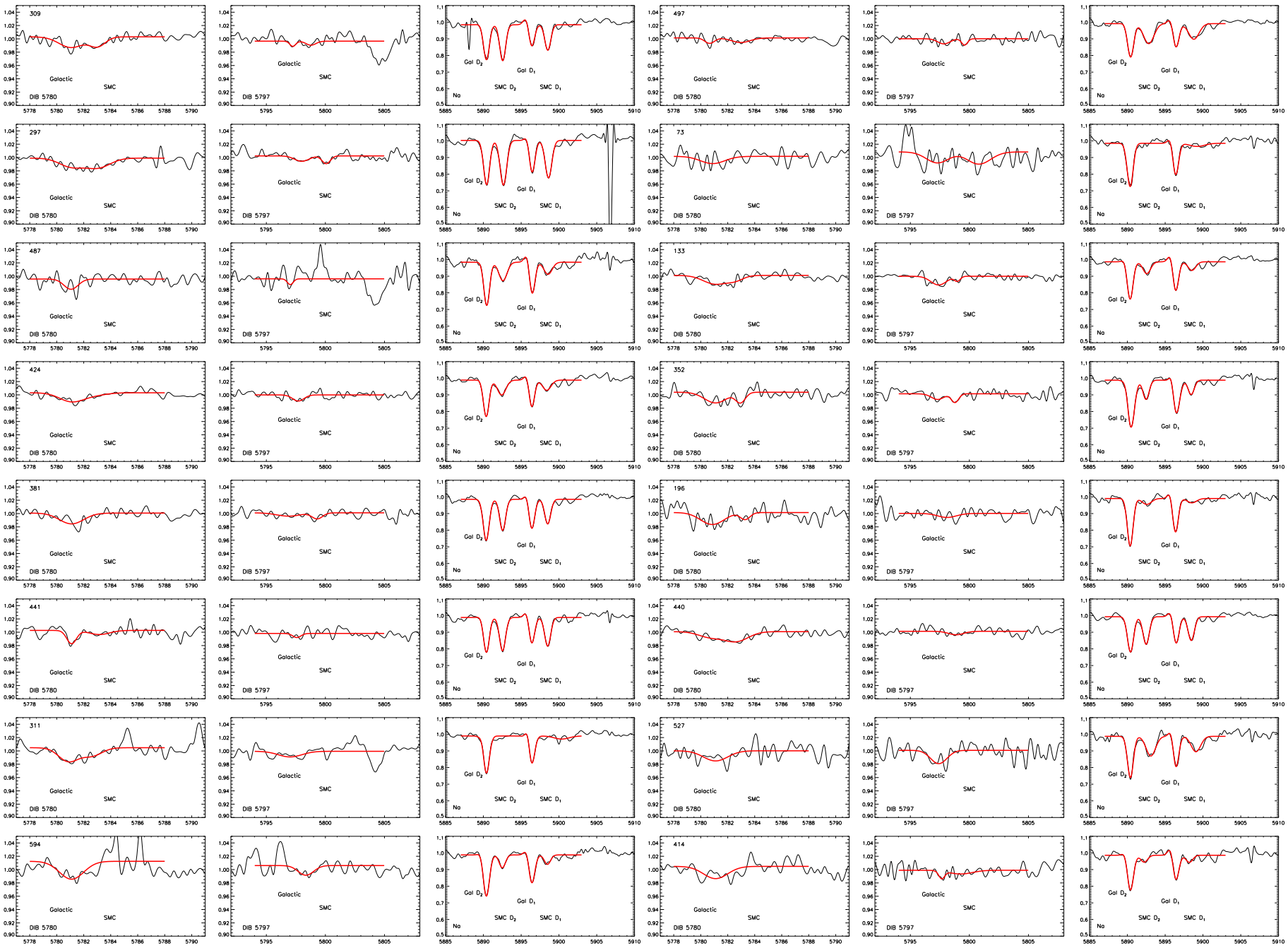
68
266
6
251
104
48
115
46
254
5


377
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
97
172
256
14
154
380
327
356
69
223
237
365
143
366
298


309
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
497
297
73
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424
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381
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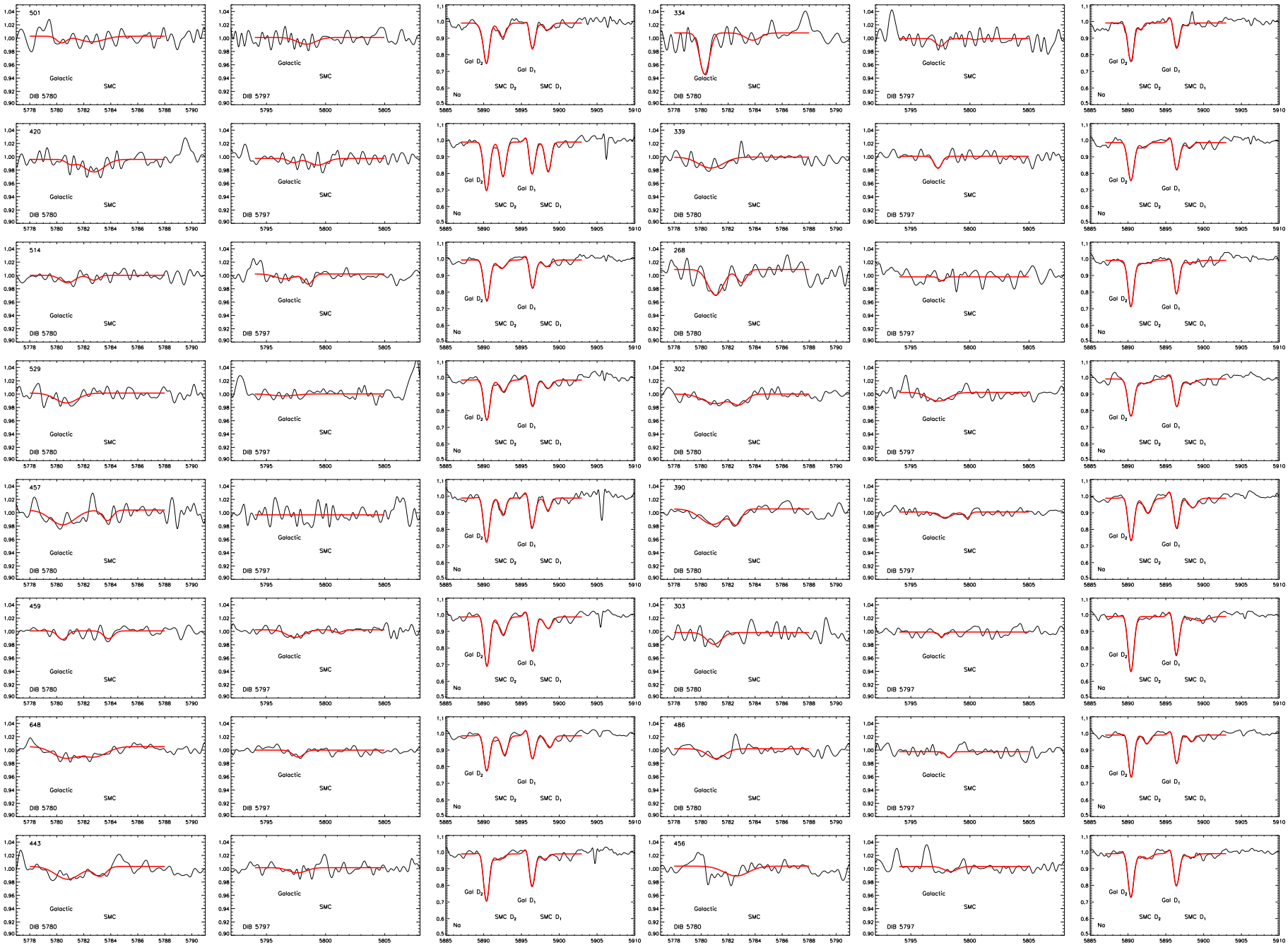
441
440
311
527
594
414


501
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
334
420
339
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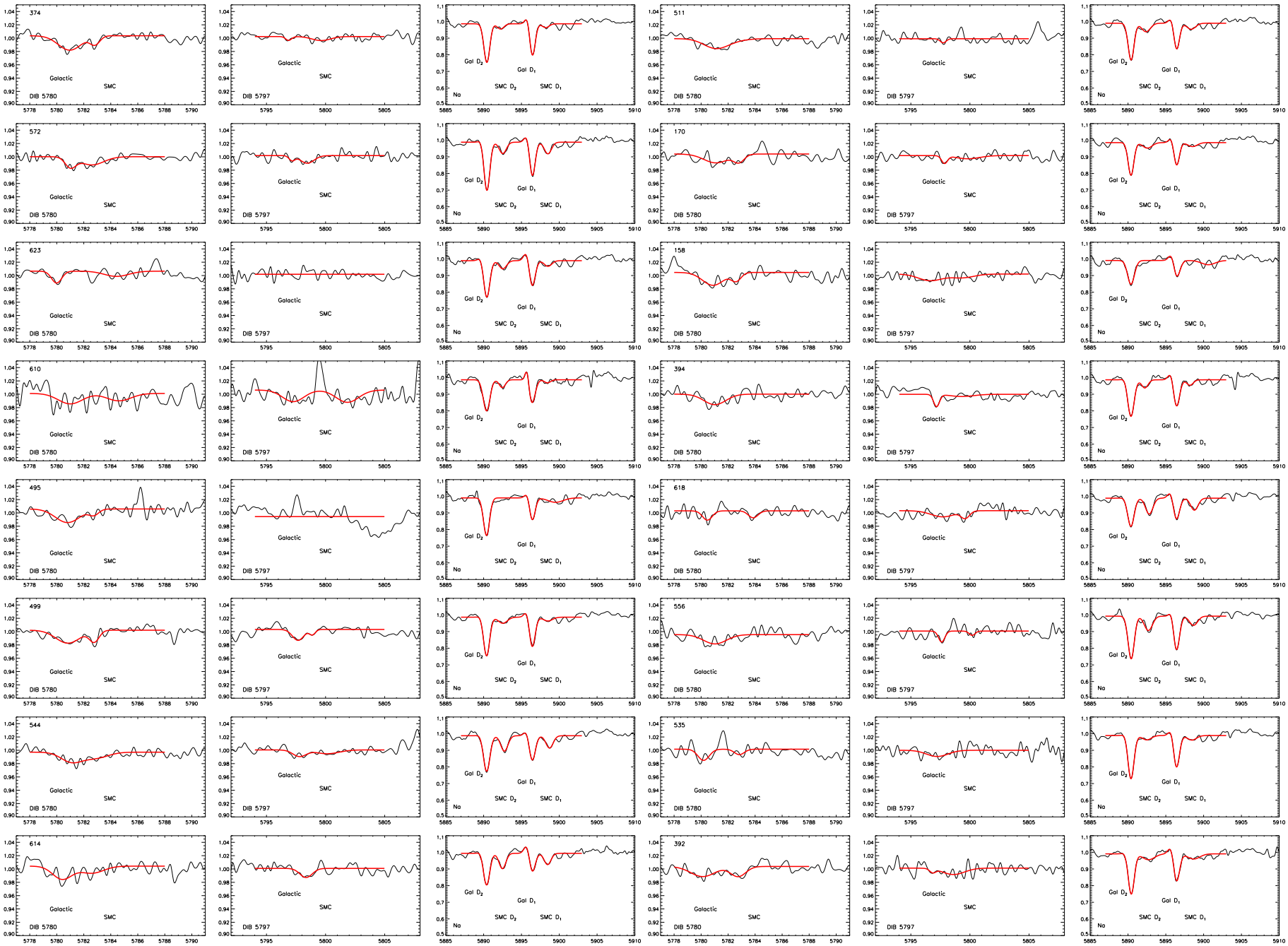
268
529
302
457
390
459
303
648
486
443
456


374
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
511
572
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610
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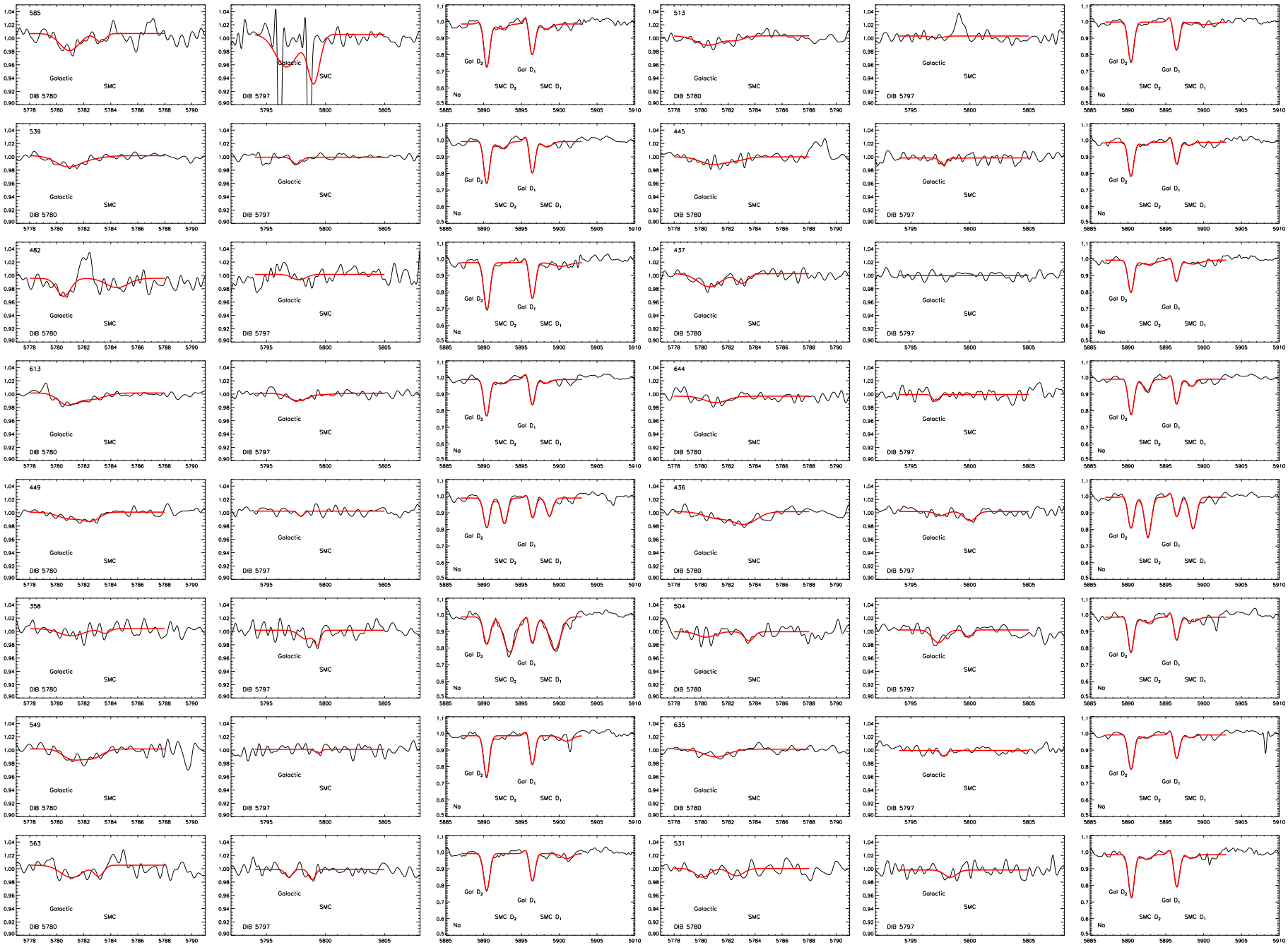
495
618
499
556
544
535
614
392


585
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
513
539
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644
449
436
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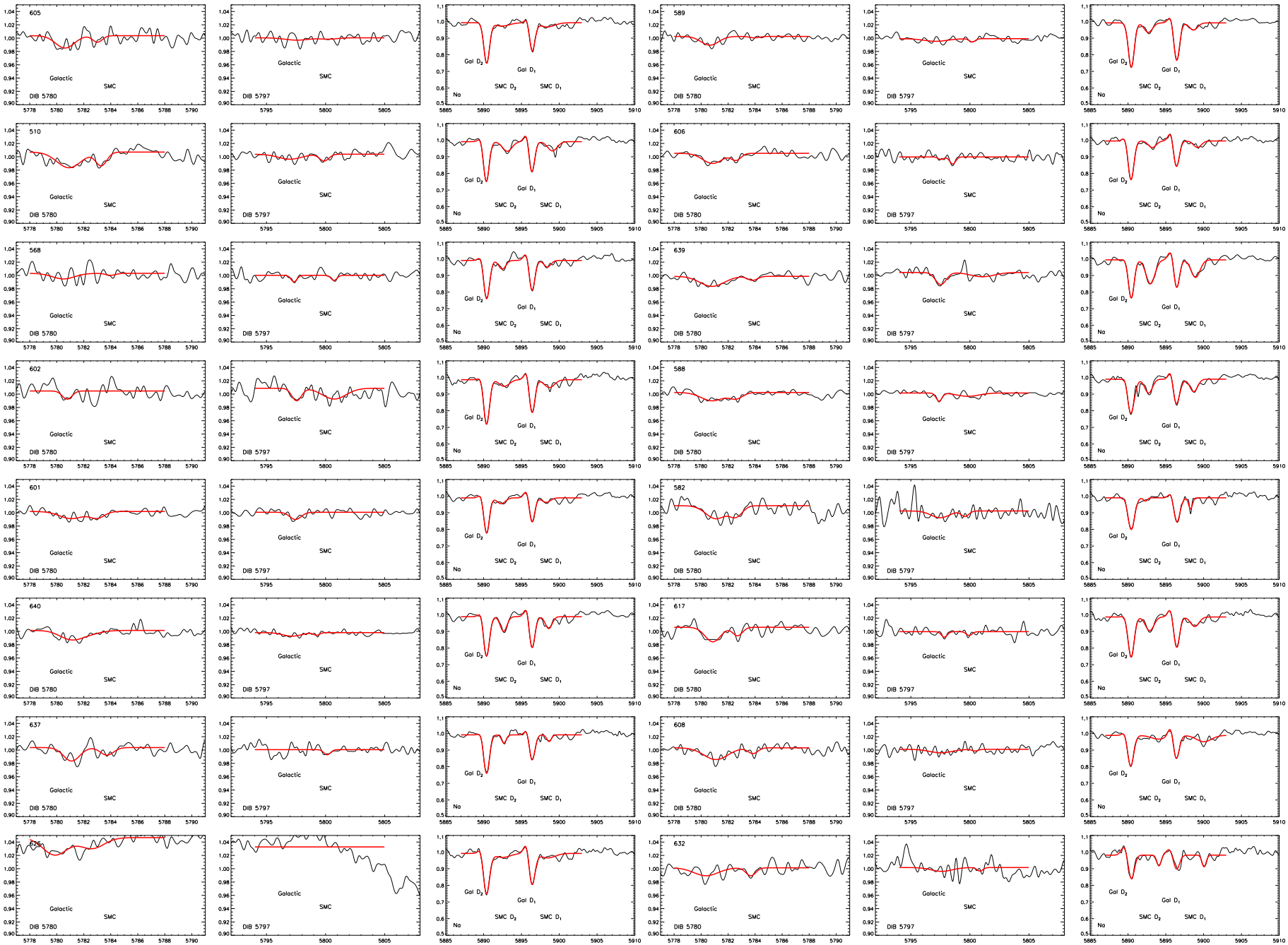
504
549
635
563
531


605
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
589
510
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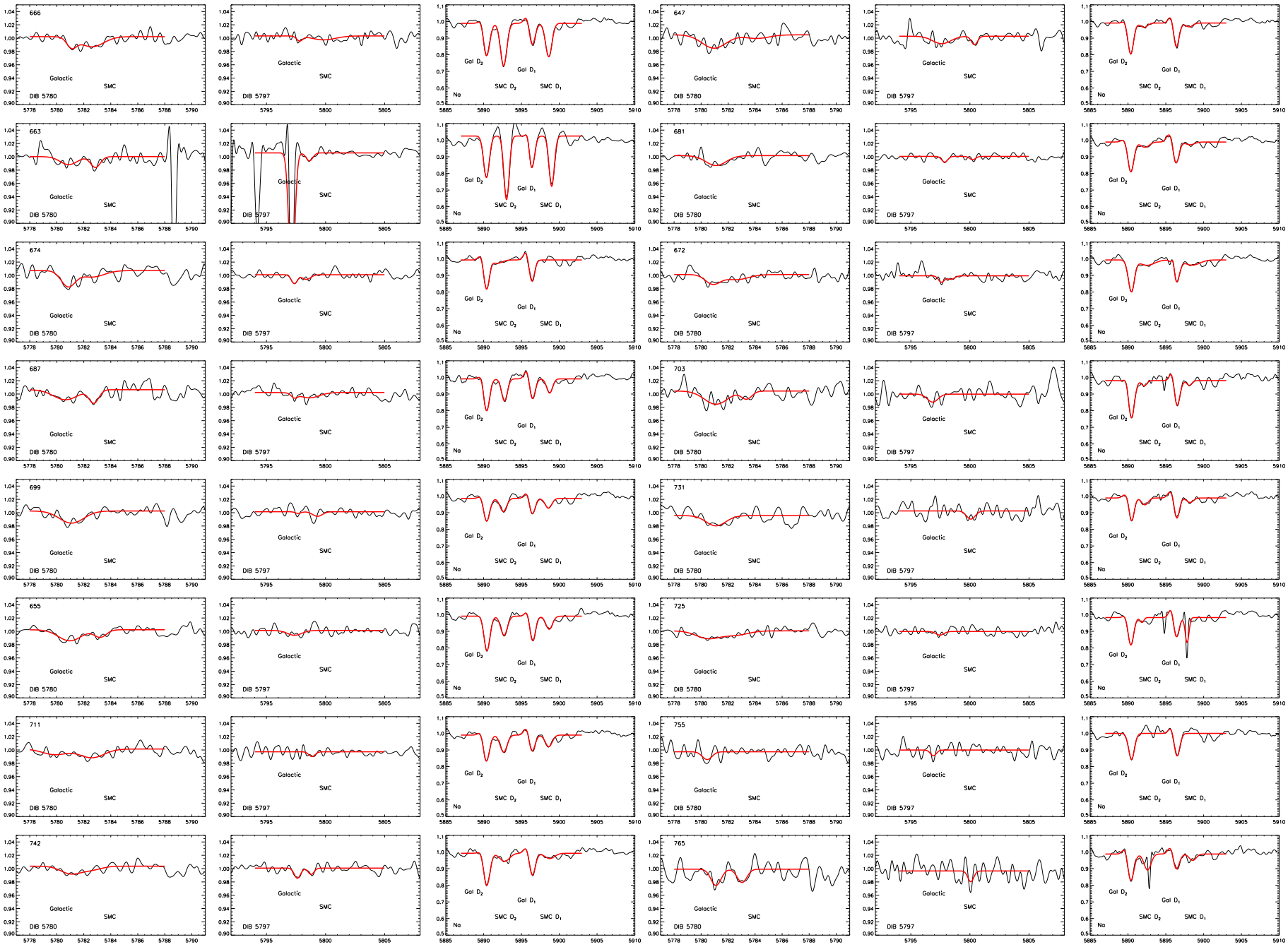
588
601
582
640
617
637
608
626
632


666
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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647
663
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699
731
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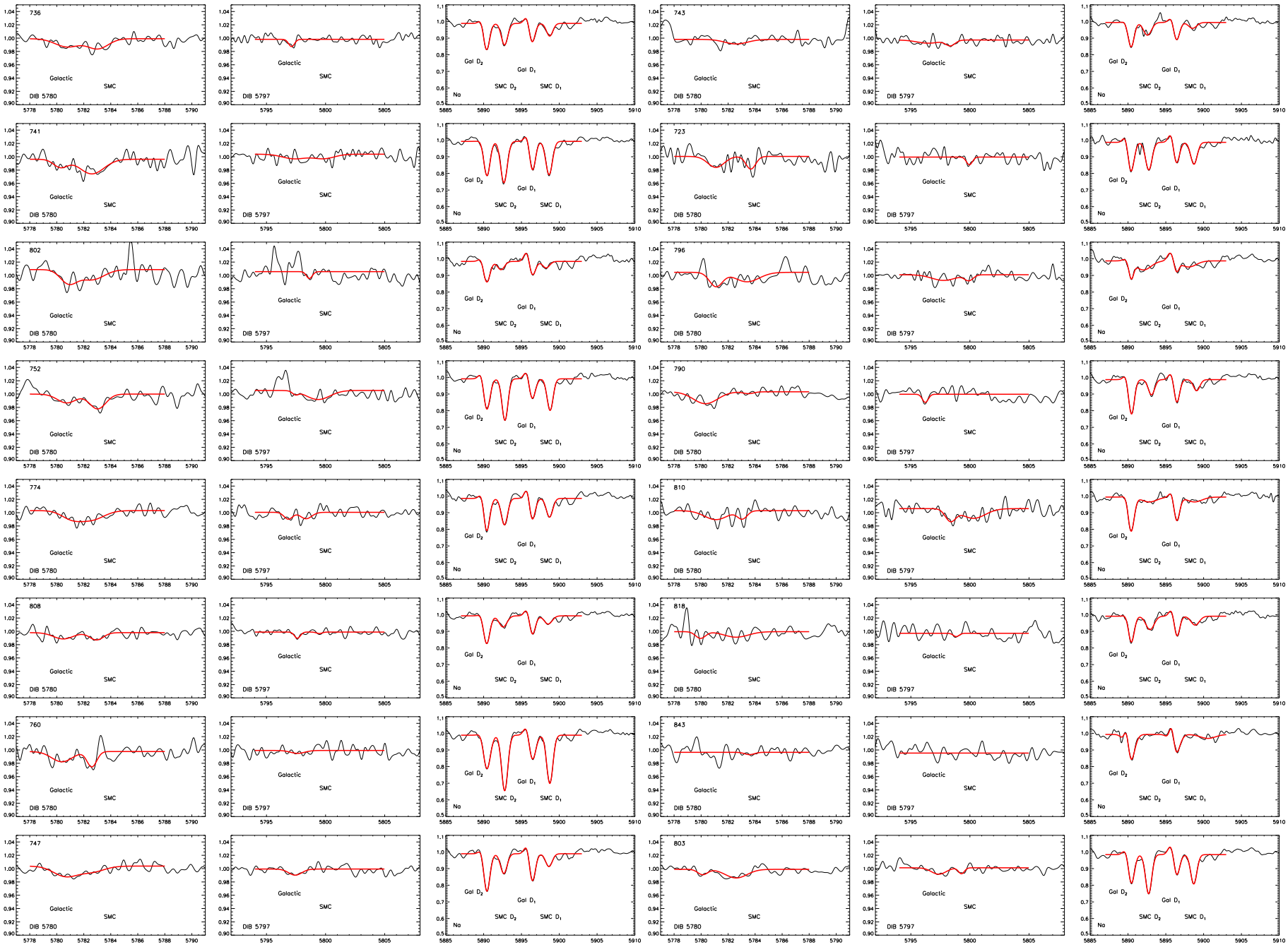
711
755
742
765


736
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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743
741
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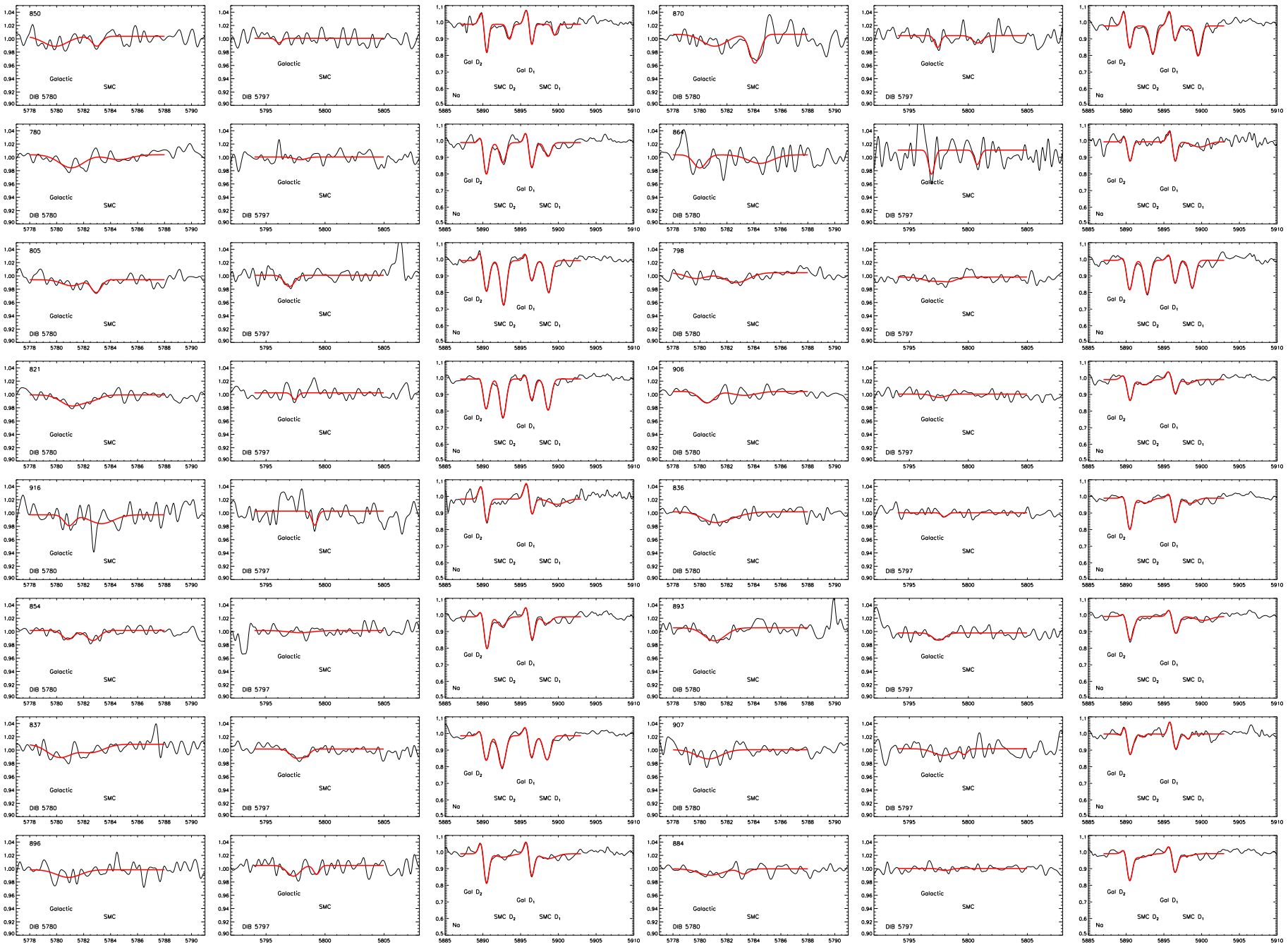
752
790
774
810
808
818
760
843
747
803


850
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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836
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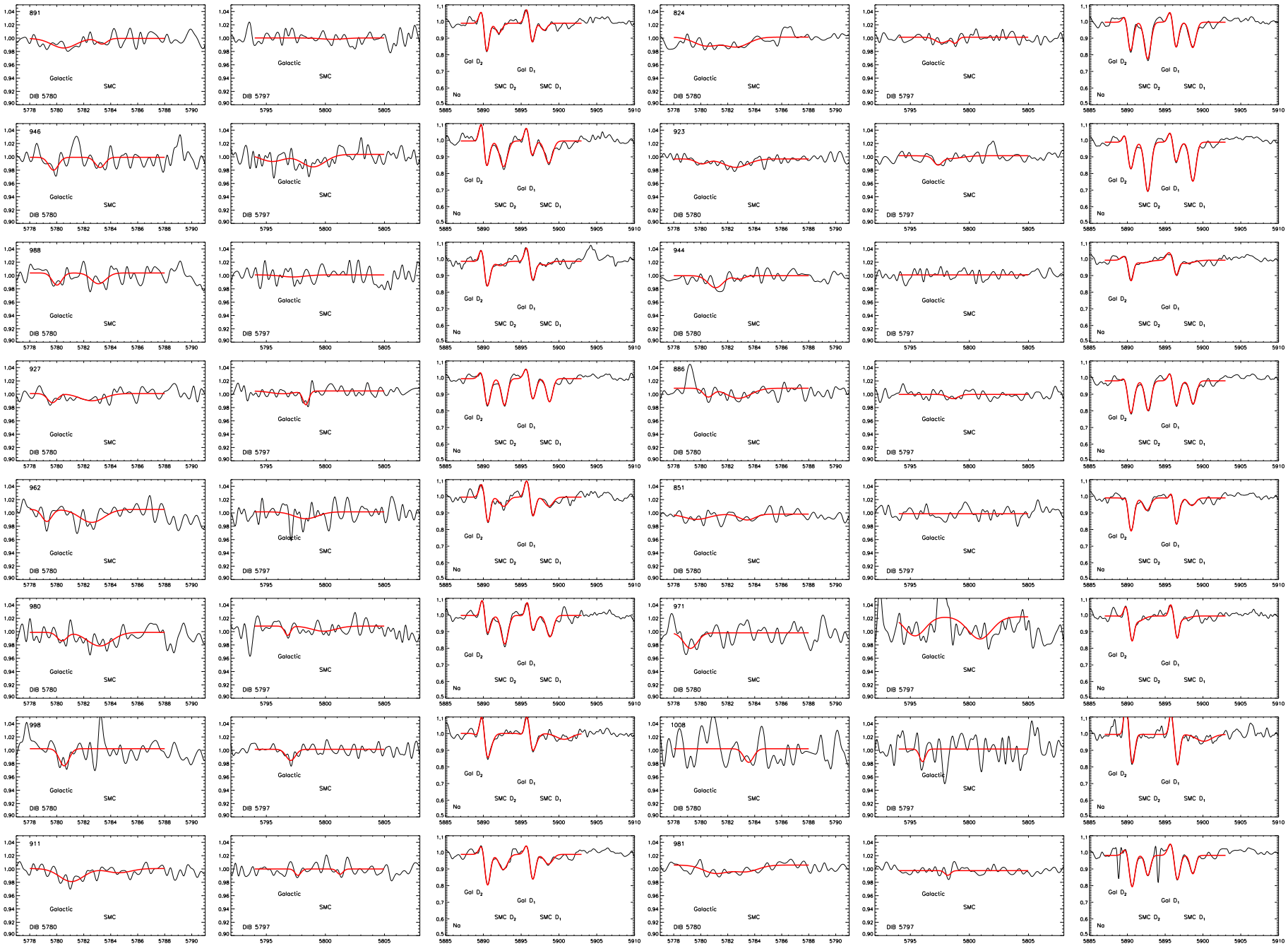
893
837
907
896
884


891
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SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
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923
988
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927
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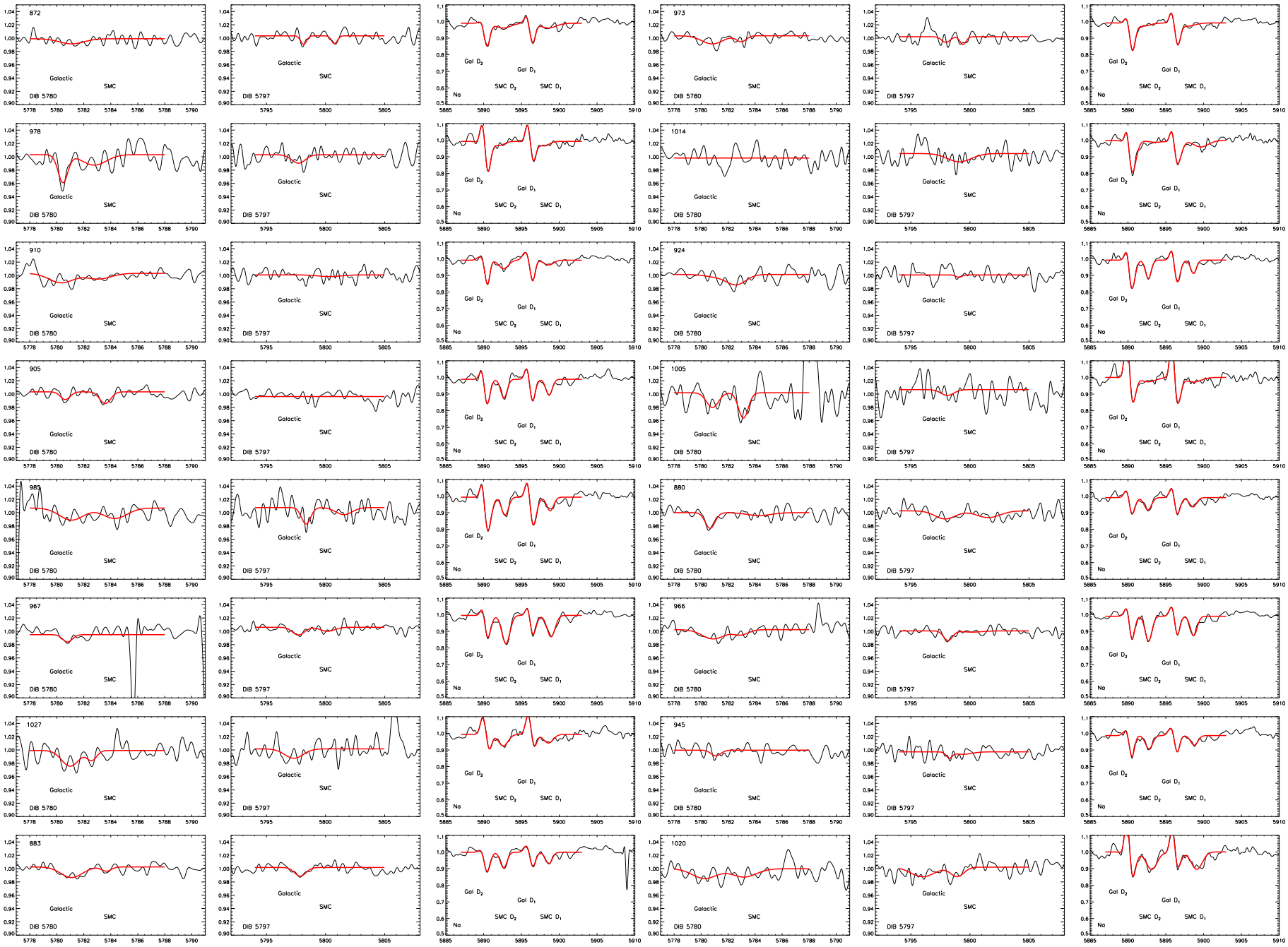
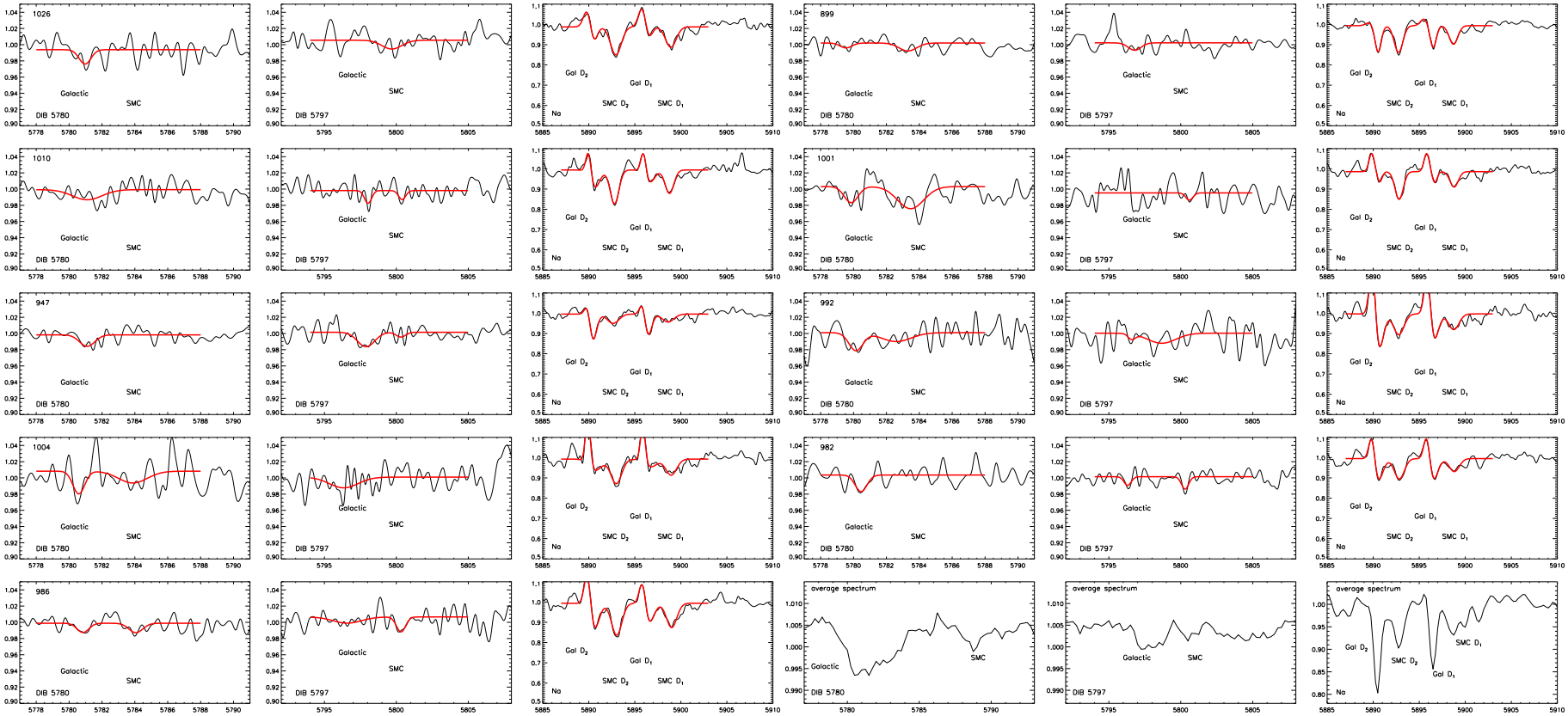
851
980
971
998
1008
911
981


872
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
973
978
1014
910
924
905
1005
985
880
967
966
1027
945
883
1020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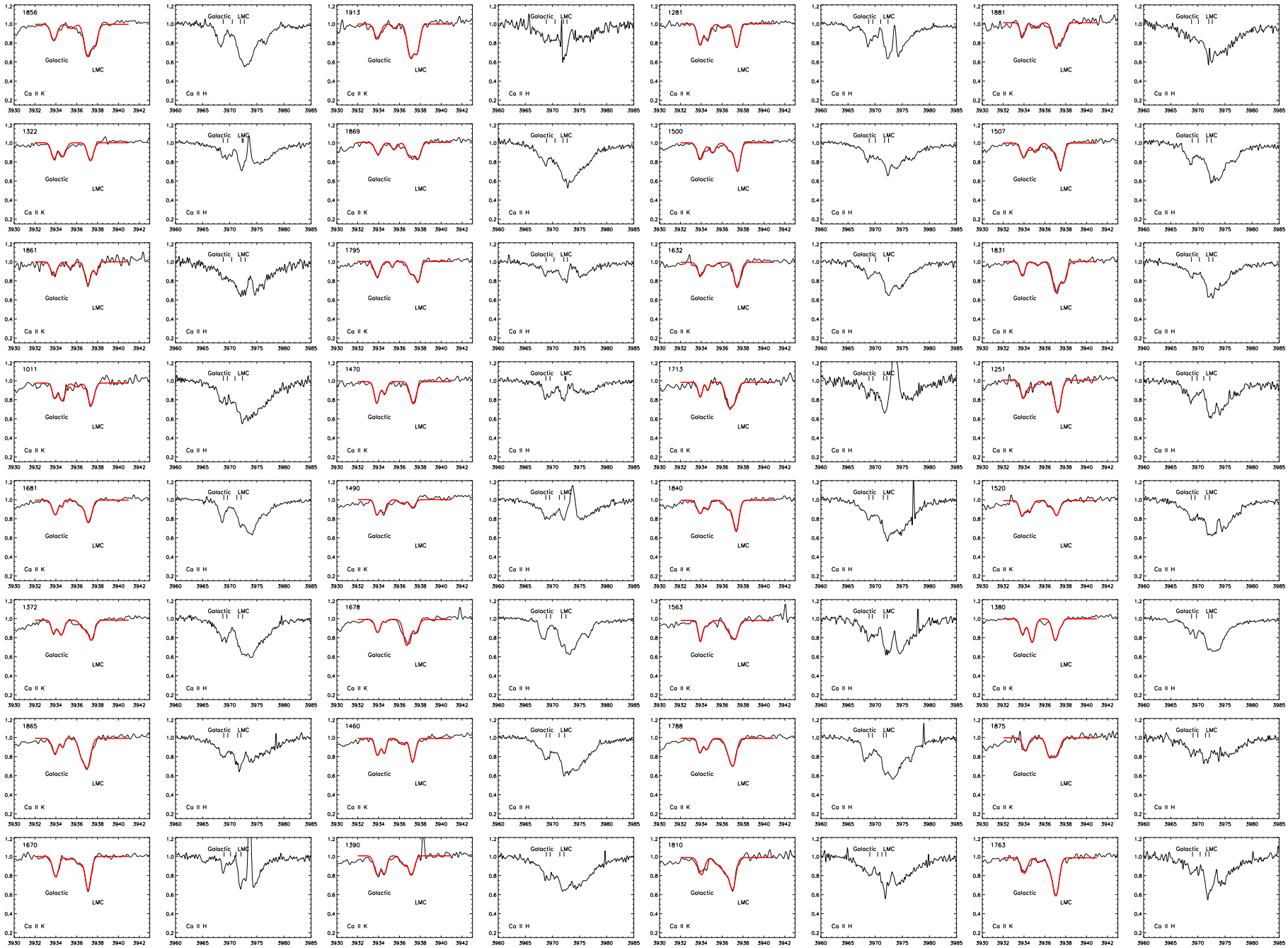
Galactic
SMC
DIB 5780
DIB 5797
Gal D2
Gal D1
SMC D2
SMC D1
Na
899
1010
1001
947
992
1004
982
986
average spectrum


1856
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LMC
Ca II K
Galactic LMC
Ca II H
1913
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1281
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1881
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1322
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1869
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1500
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1507
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1861
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1795
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1632
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1831
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1011
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1470
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1713
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1251
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1681
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1490
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1840
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1520
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1372
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LMC
Ca II K
Galactic LMC
Ca II H
1678
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LMC
Ca II K
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Ca II H
1563
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1380
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1865
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1460
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1788
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1875
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1670
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1390
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1810
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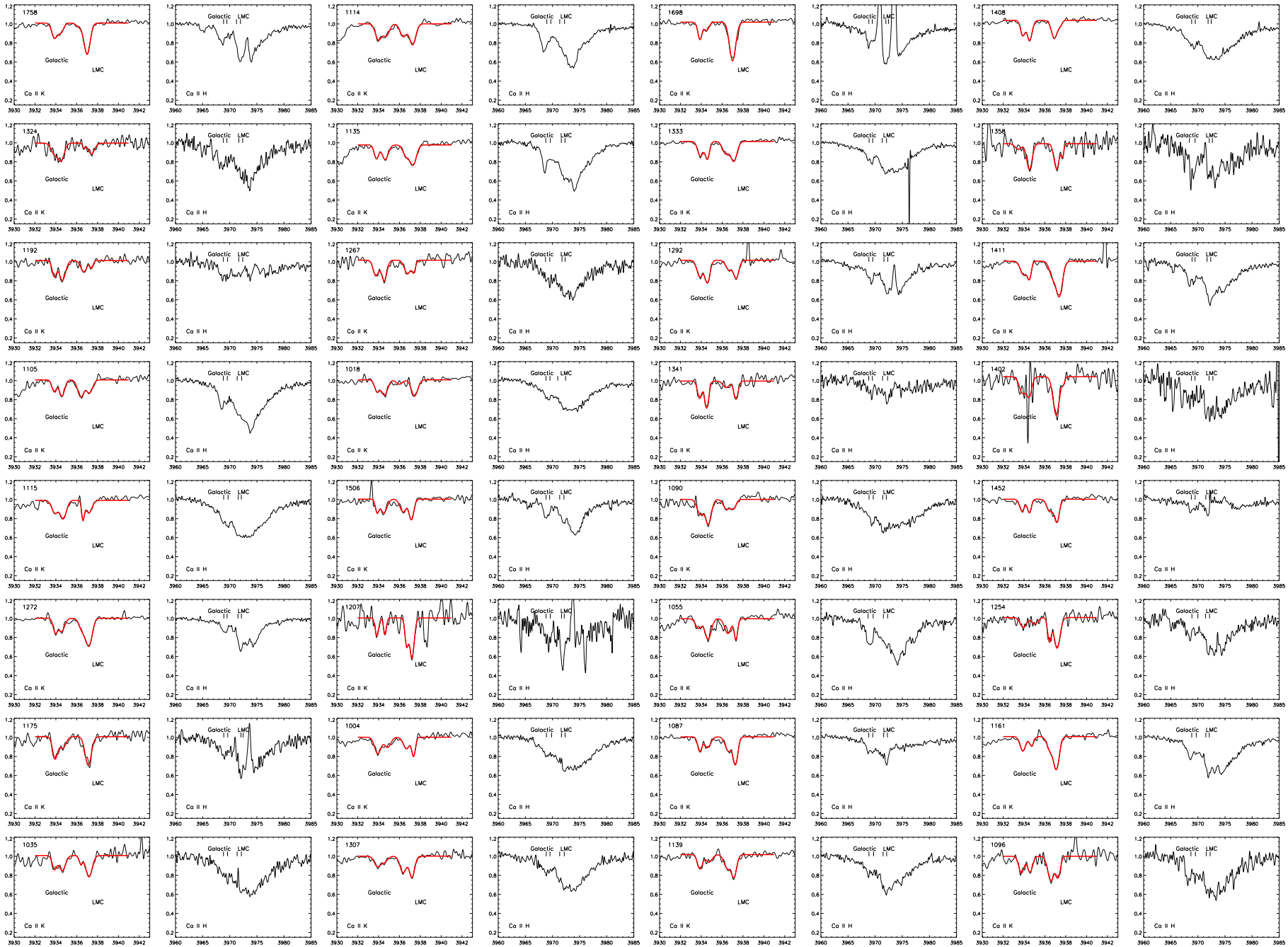
LMC
Ca II K
Galactic LMC
Ca II H
1763
Galactic
LMC
Ca II K
Galactic LMC
Ca II H


1758
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1114
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1698
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1408
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1324
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1135
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1333
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1358
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1192
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1267
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1292
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1411
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LMC
Ca II K
Galactic LMC
Ca II H
1105
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1018
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1341
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1402
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1115
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1506
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1090
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1452
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1272
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1207
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1055
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1254
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1175
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1004
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1087
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1161
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1035
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1307
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1139
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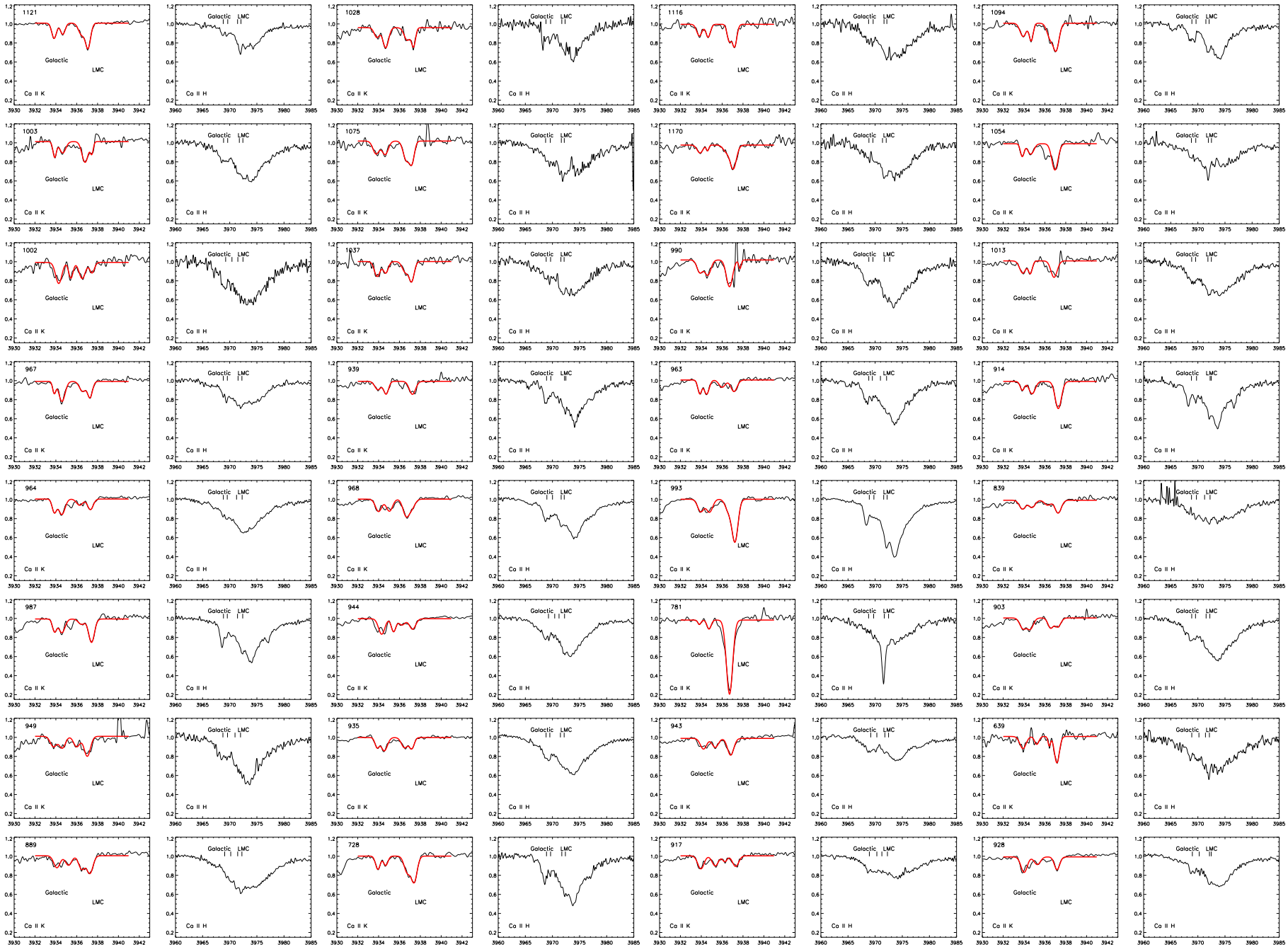
LMC
Ca II K
Galactic LMC
Ca II H
1096
Galactic
LMC
Ca II K
Galactic LMC
Ca II H


1121
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LMC
Ca II K
Galactic LMC
Ca II H
1028
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1116
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1094
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1003
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1075
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1170
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1054
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1002
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1037
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
990
Galactic
LMC
Ca II K
Galactic LMC
Ca II H
1013
Galactic
LMC
Ca II K
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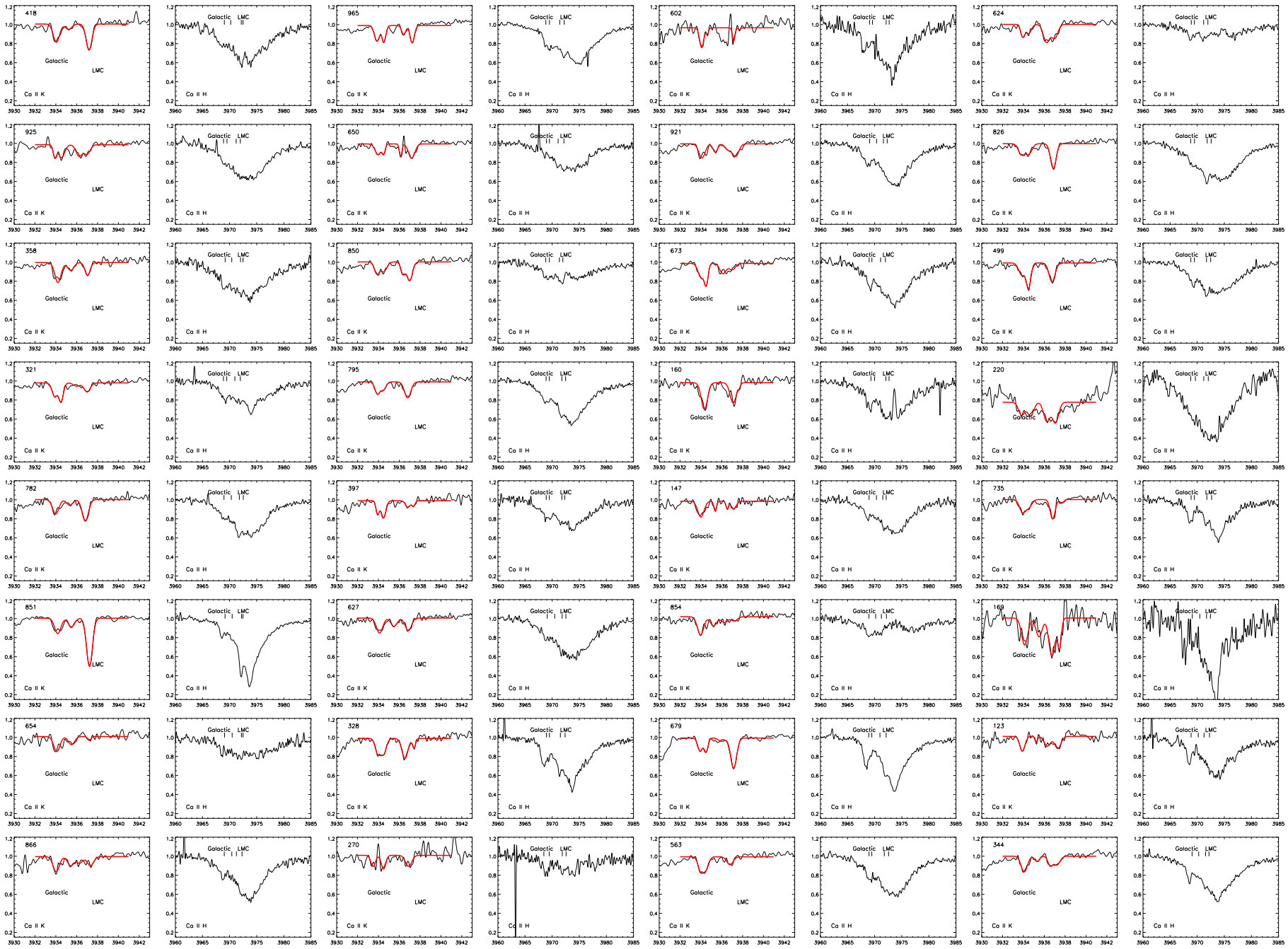
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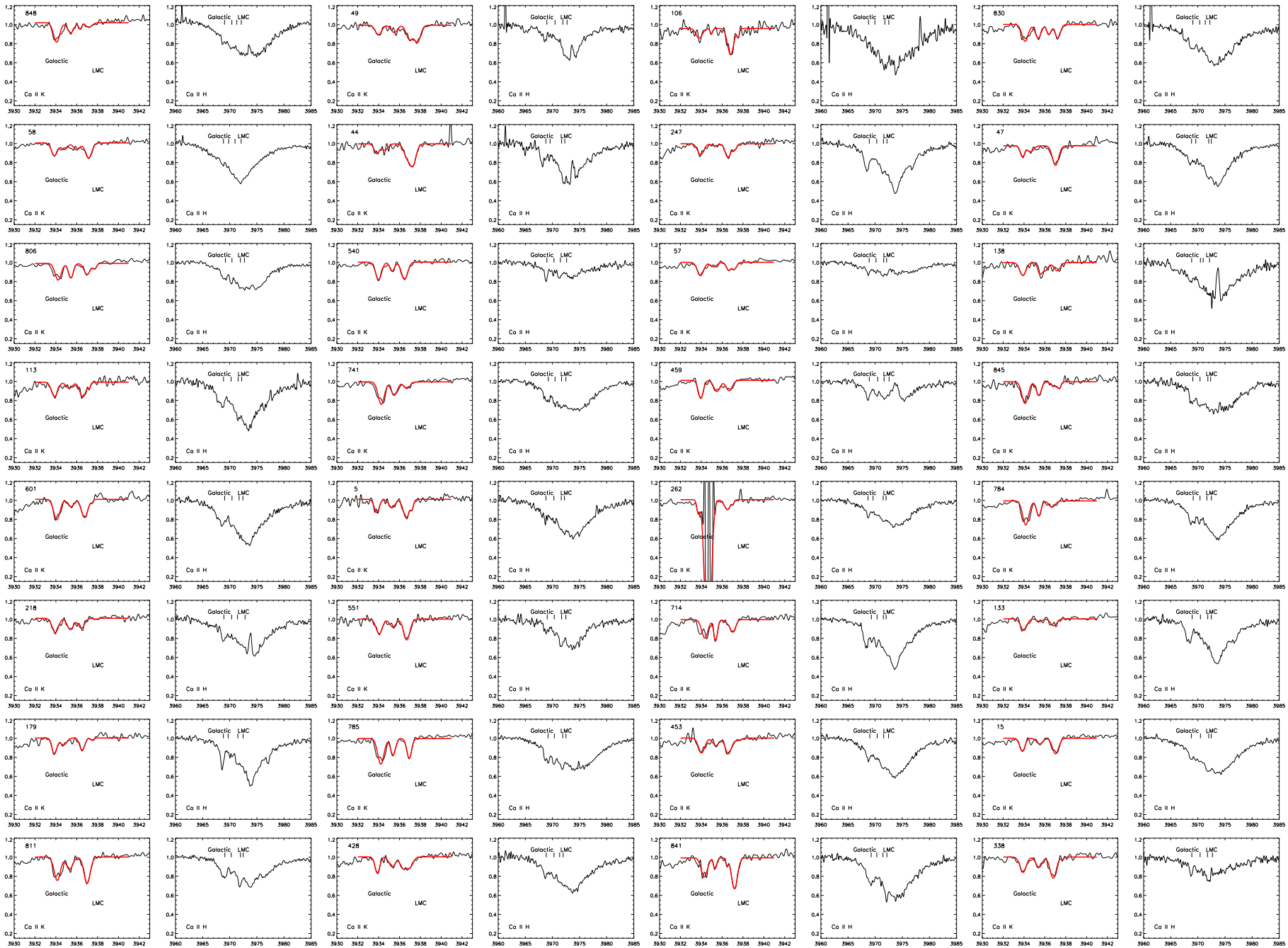
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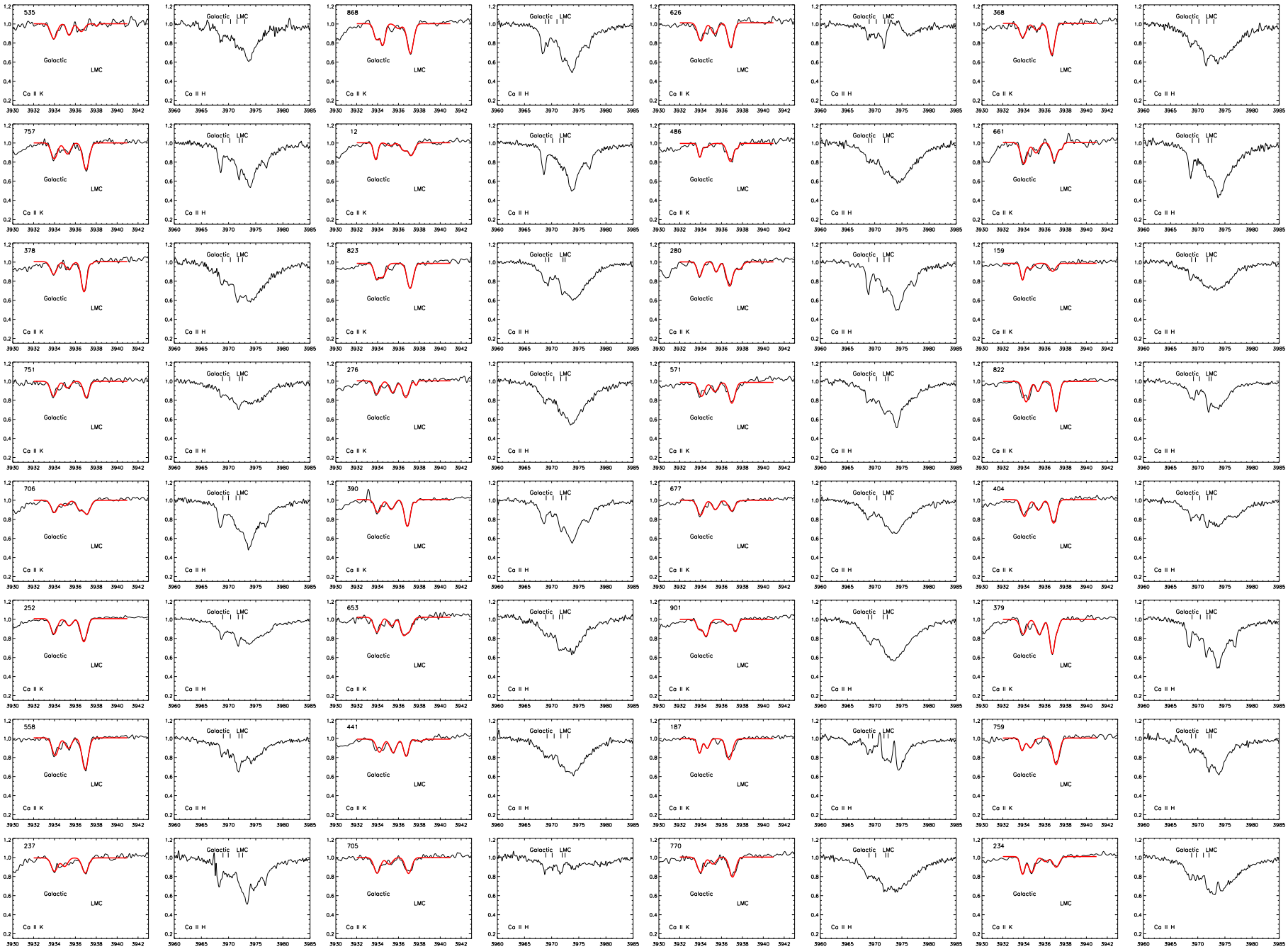
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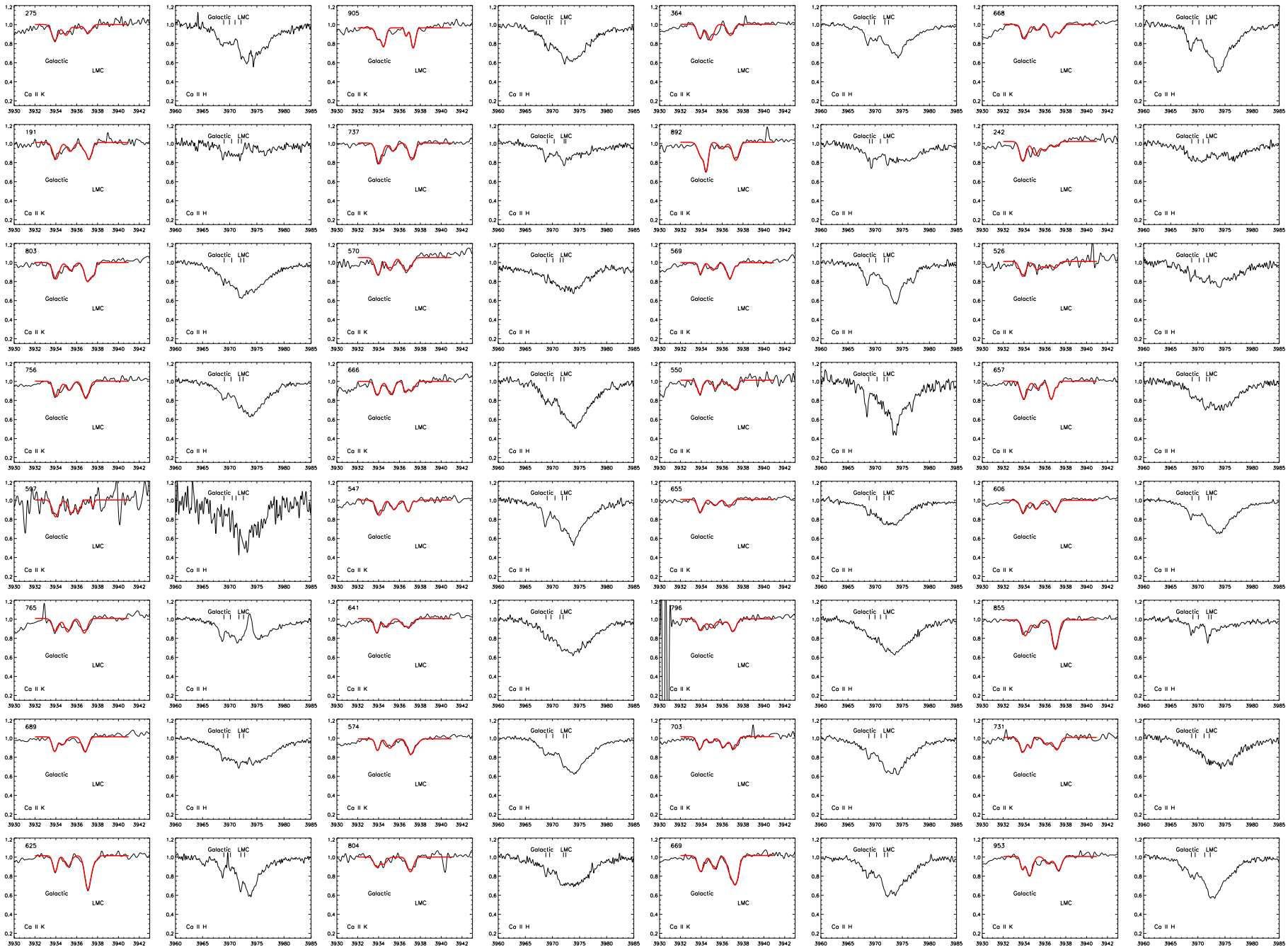
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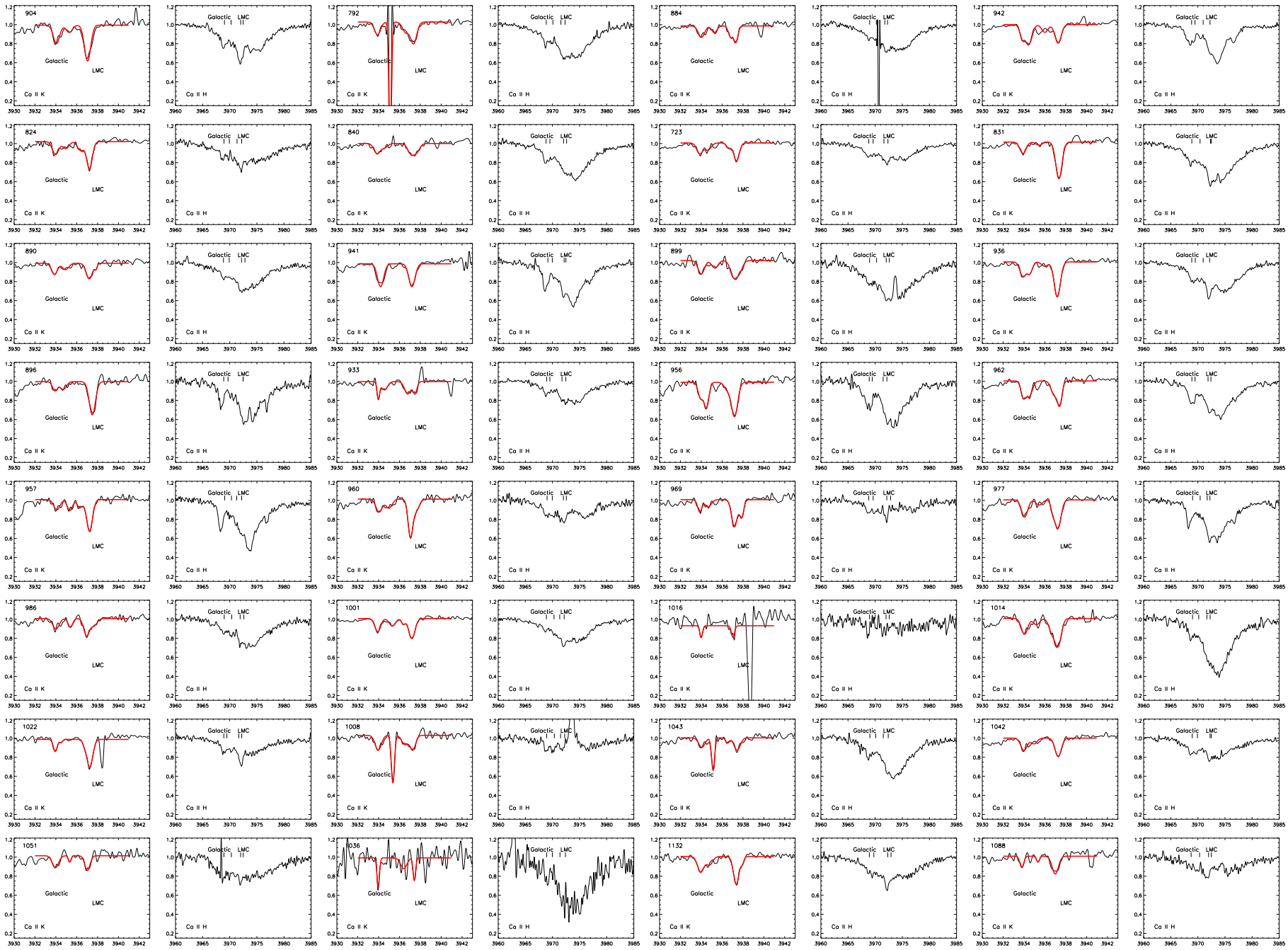
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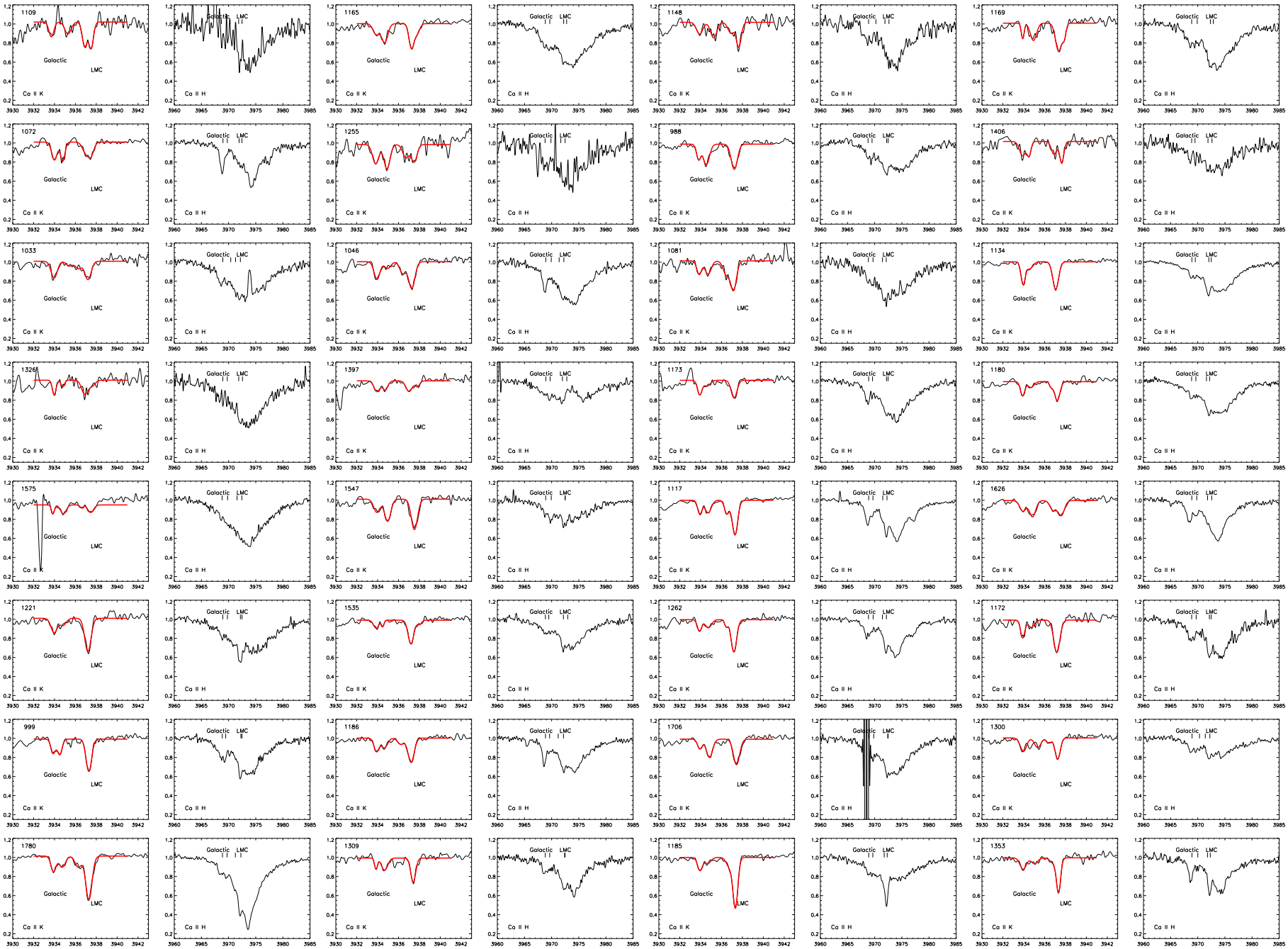
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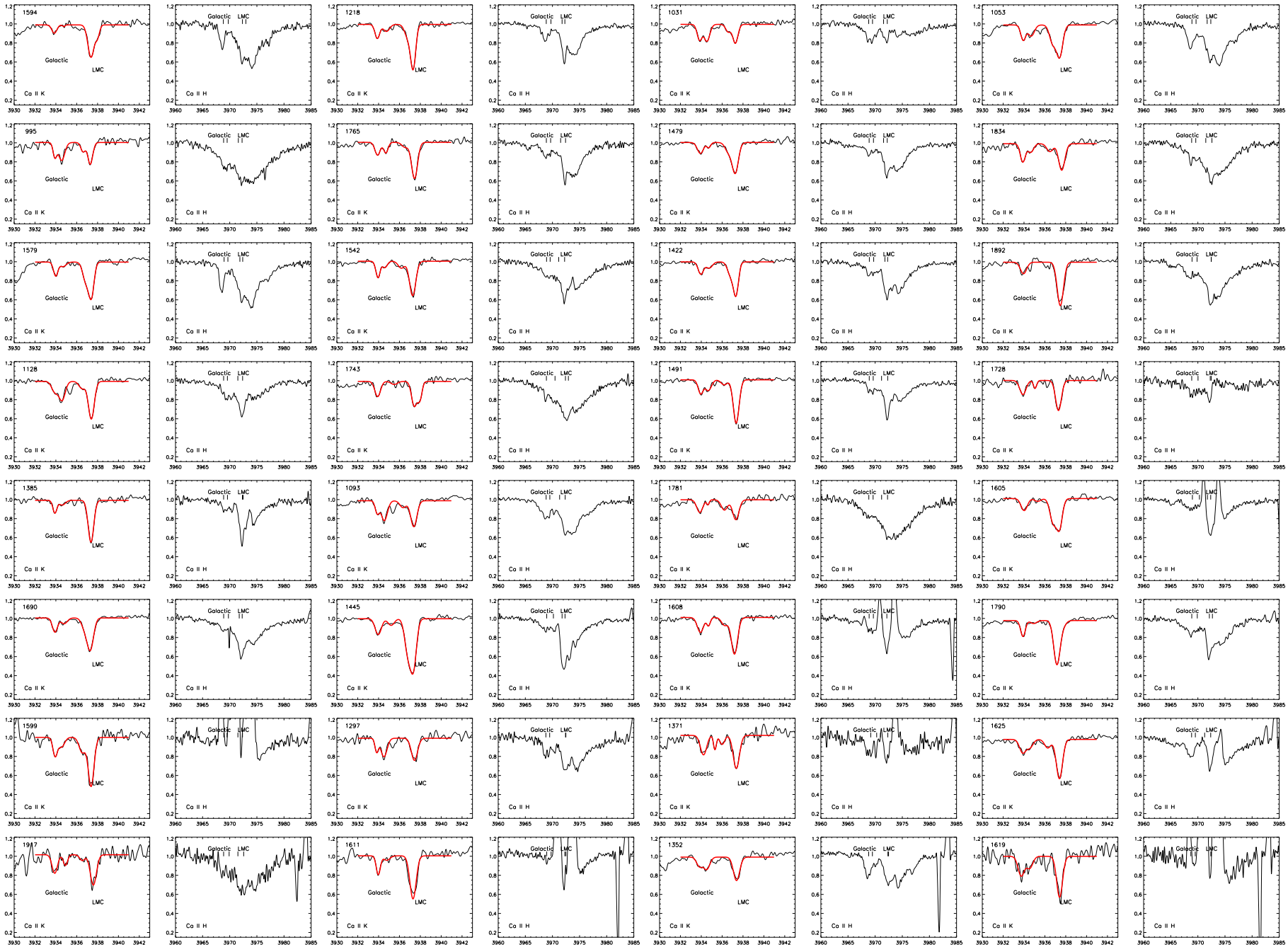
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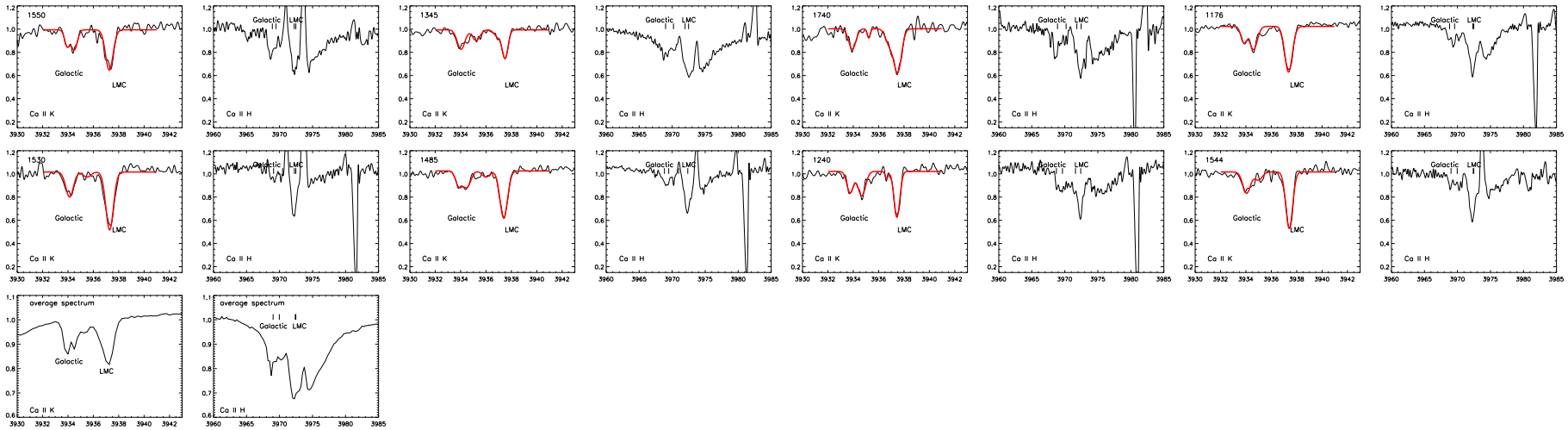
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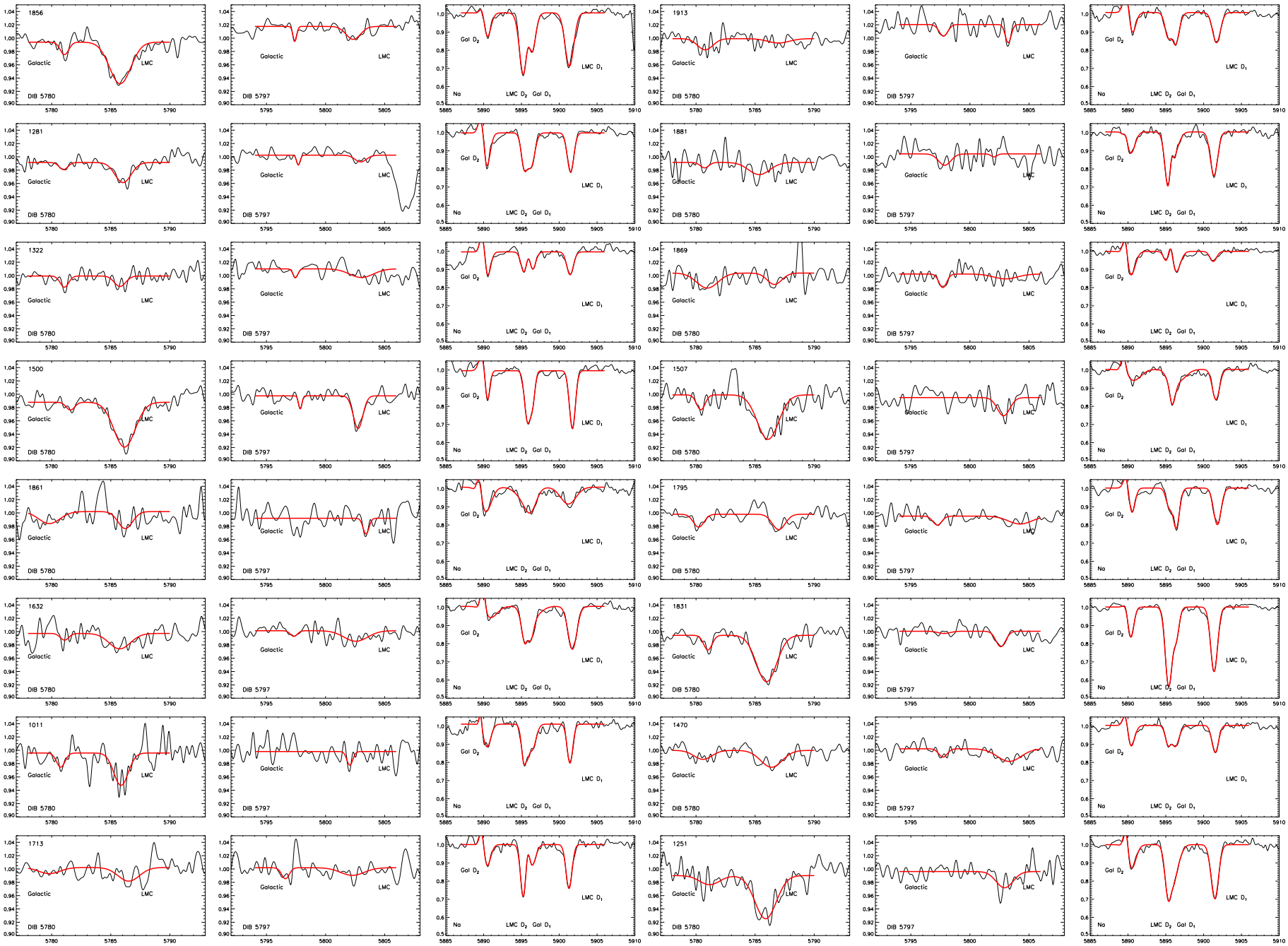
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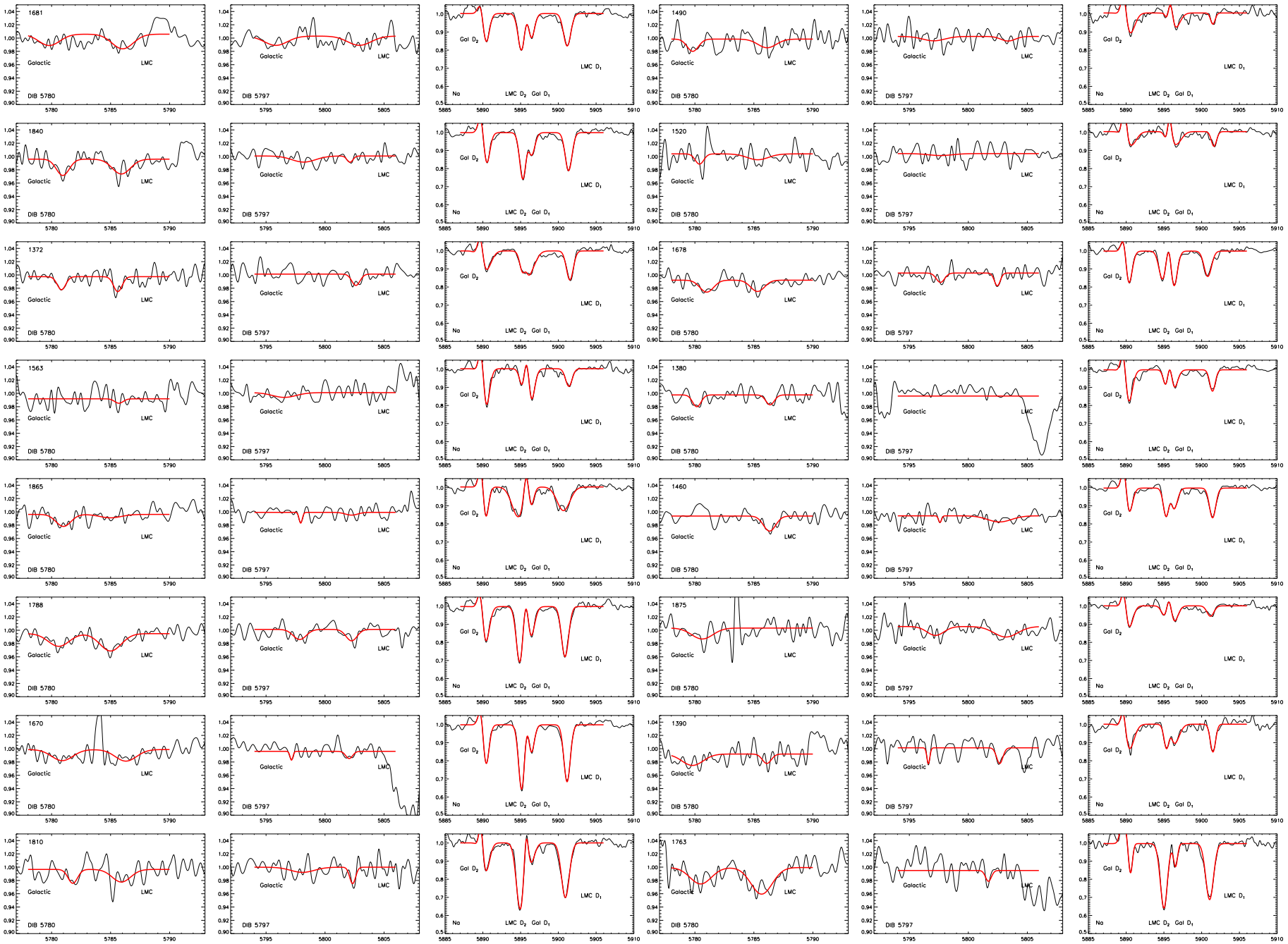
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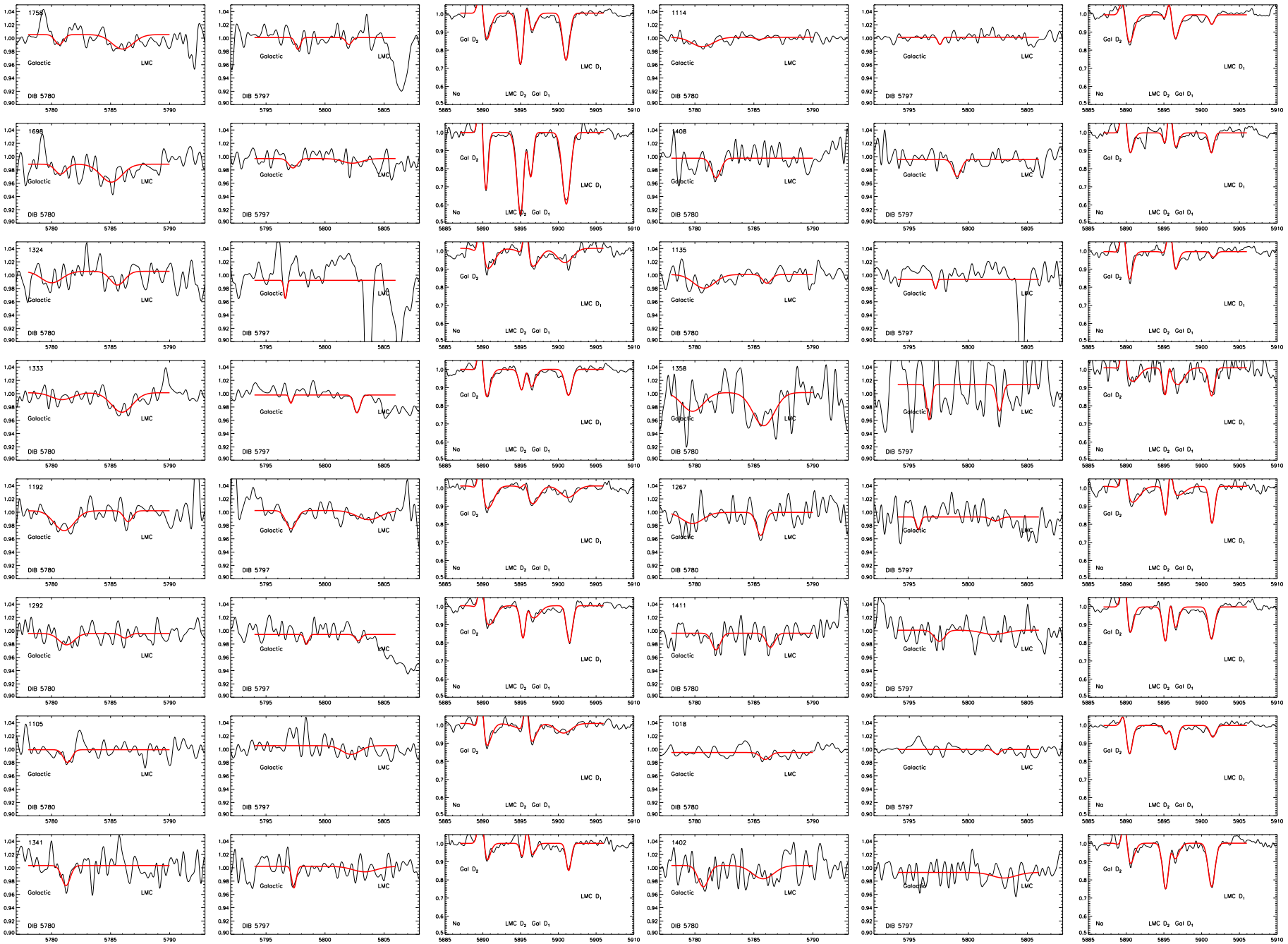
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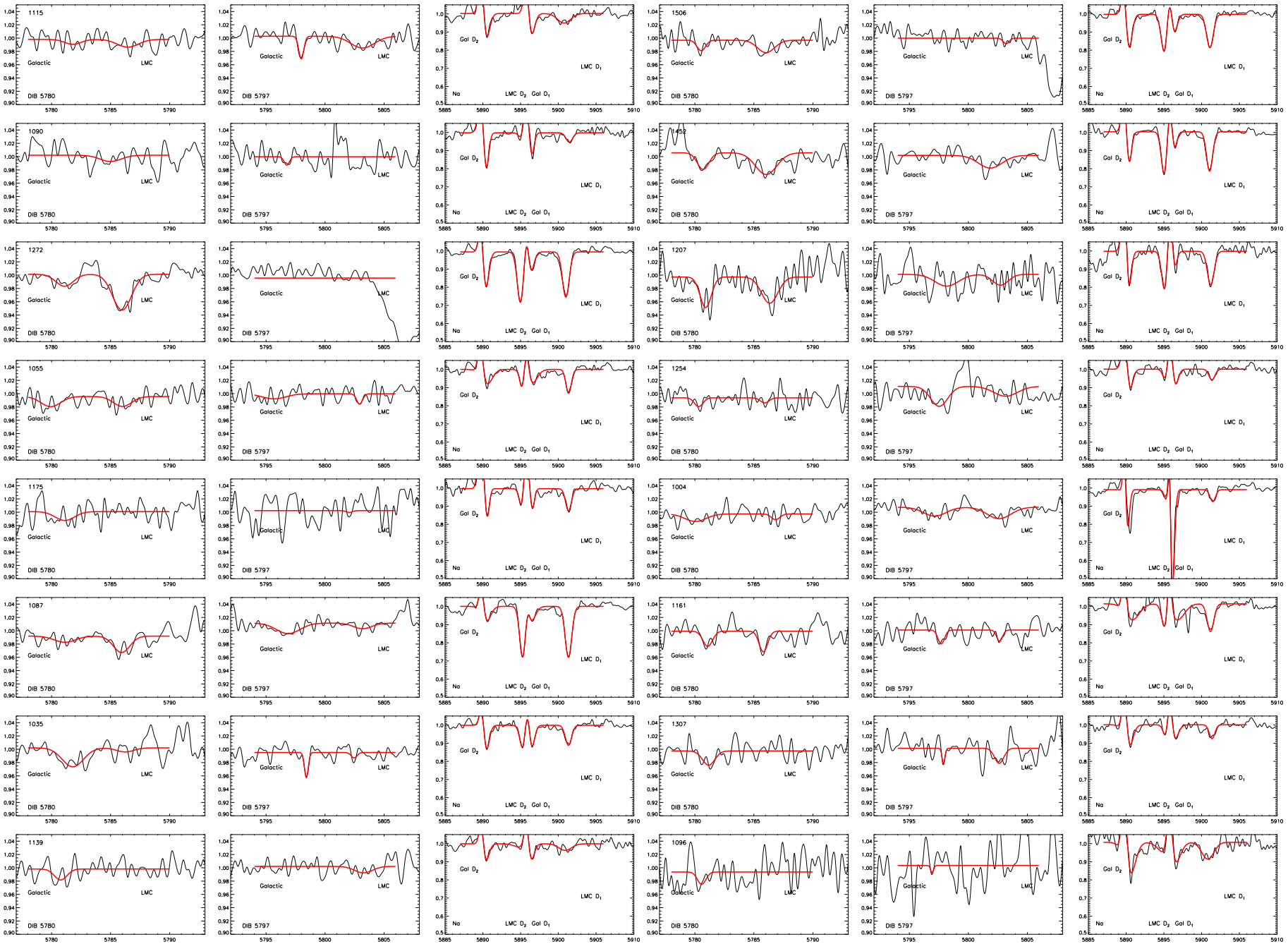
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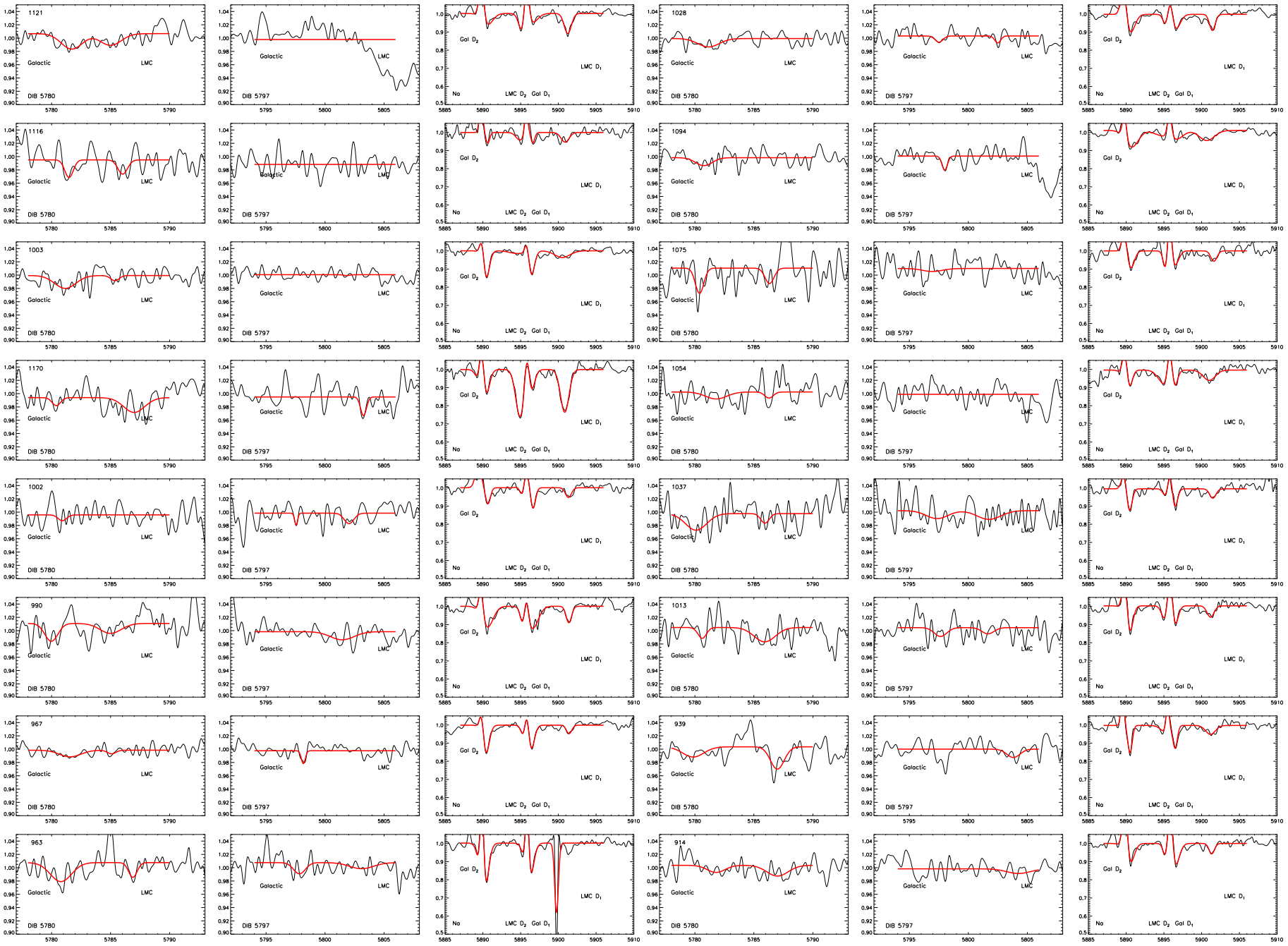
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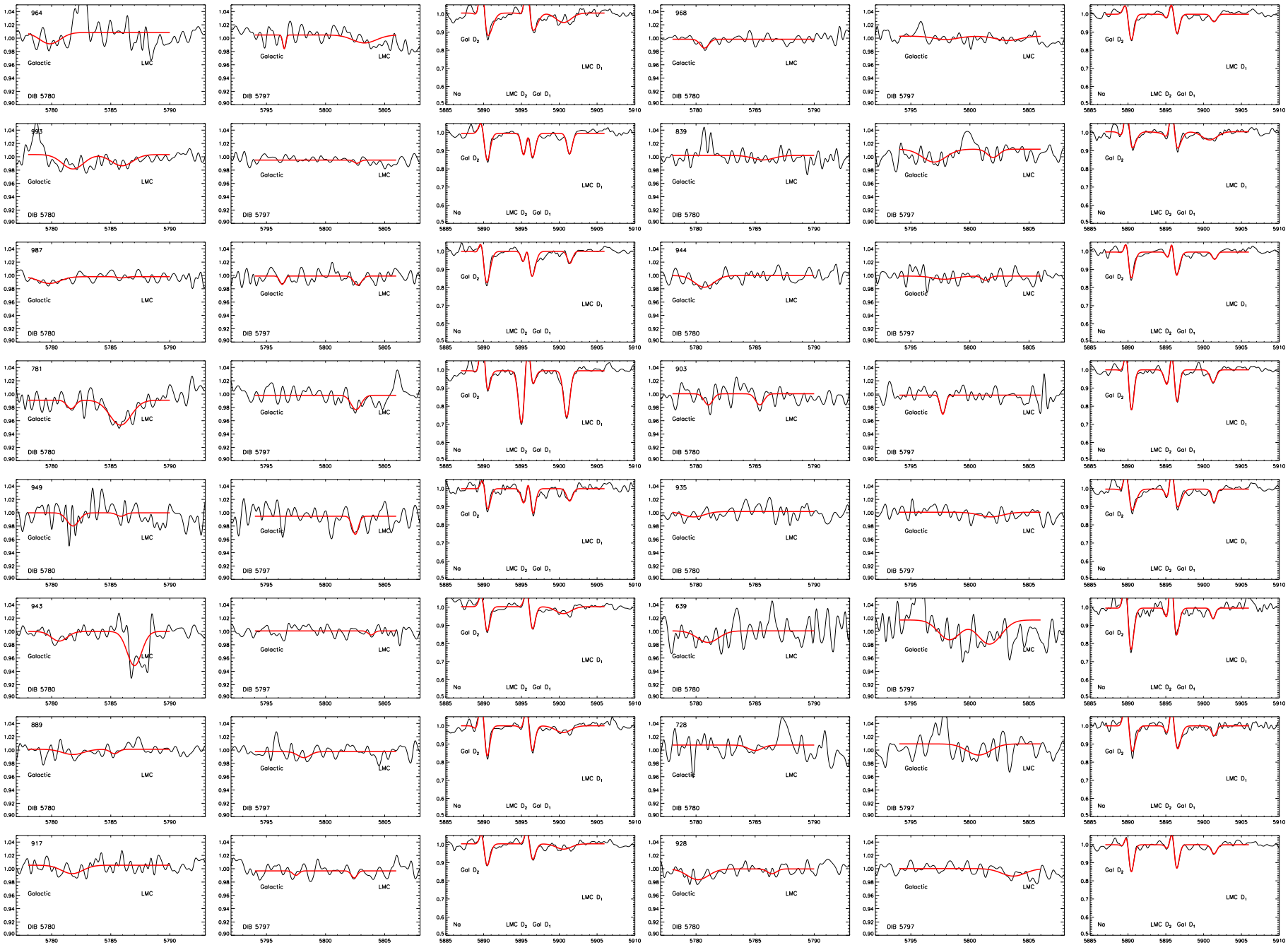
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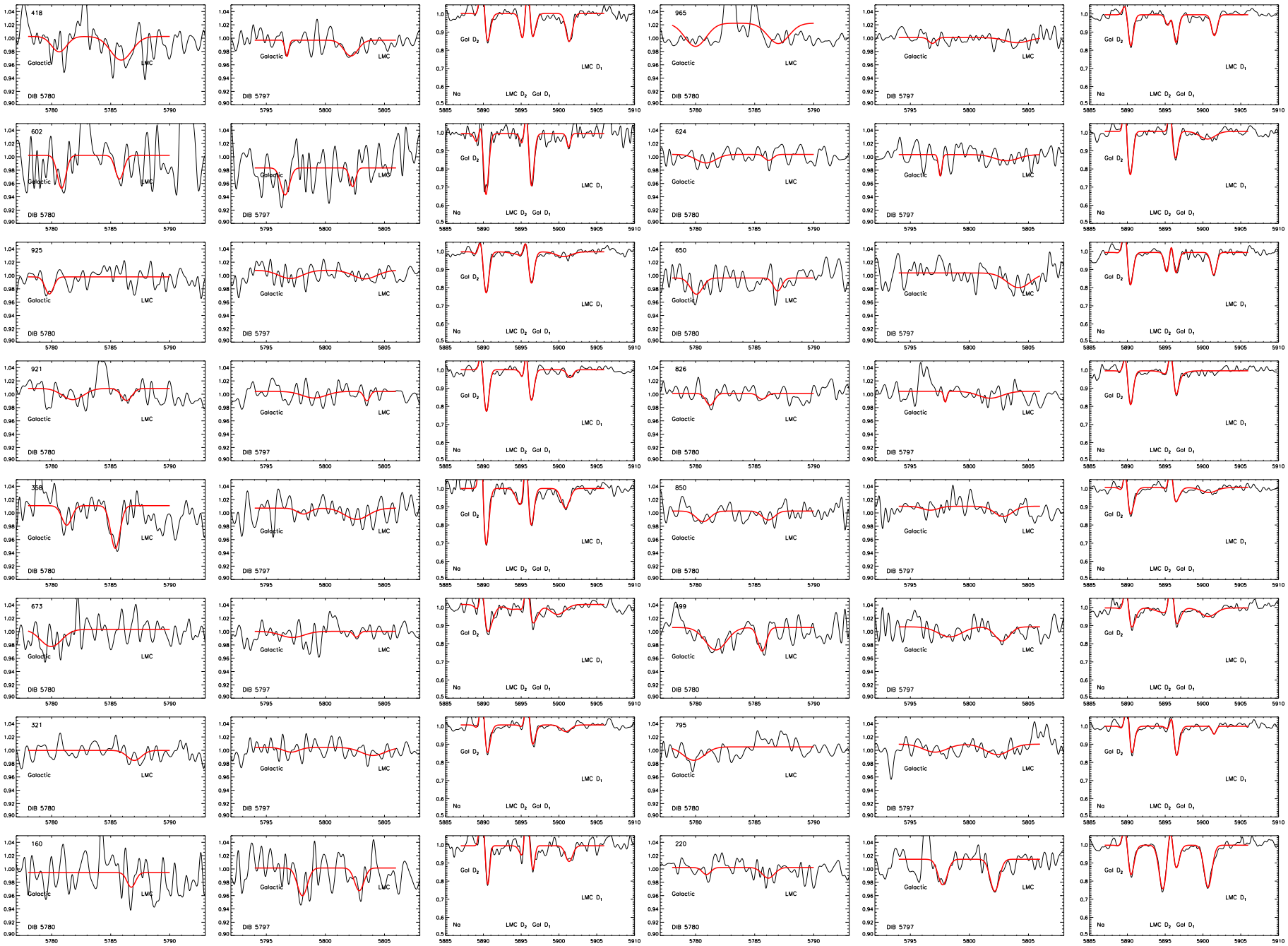
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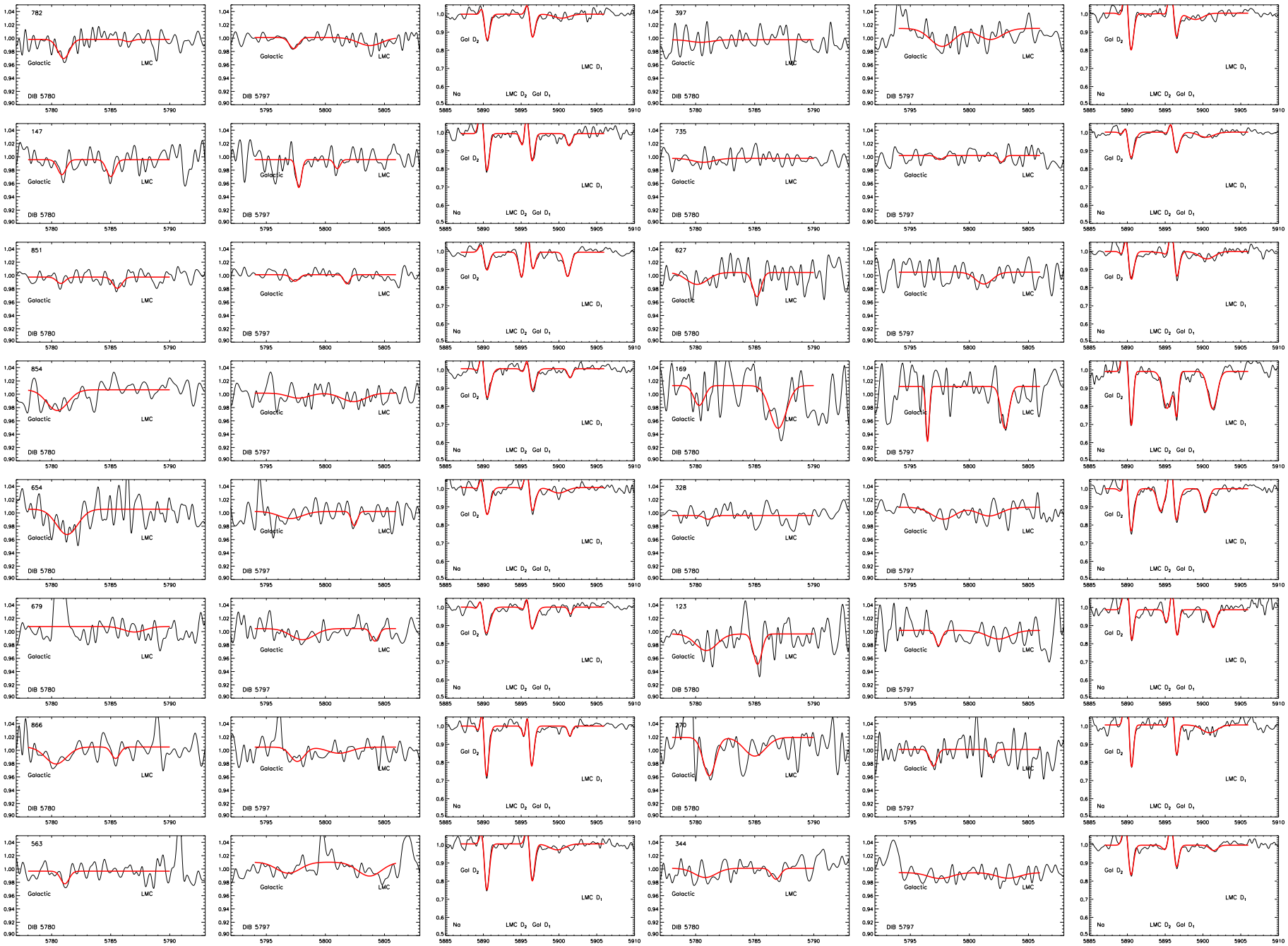
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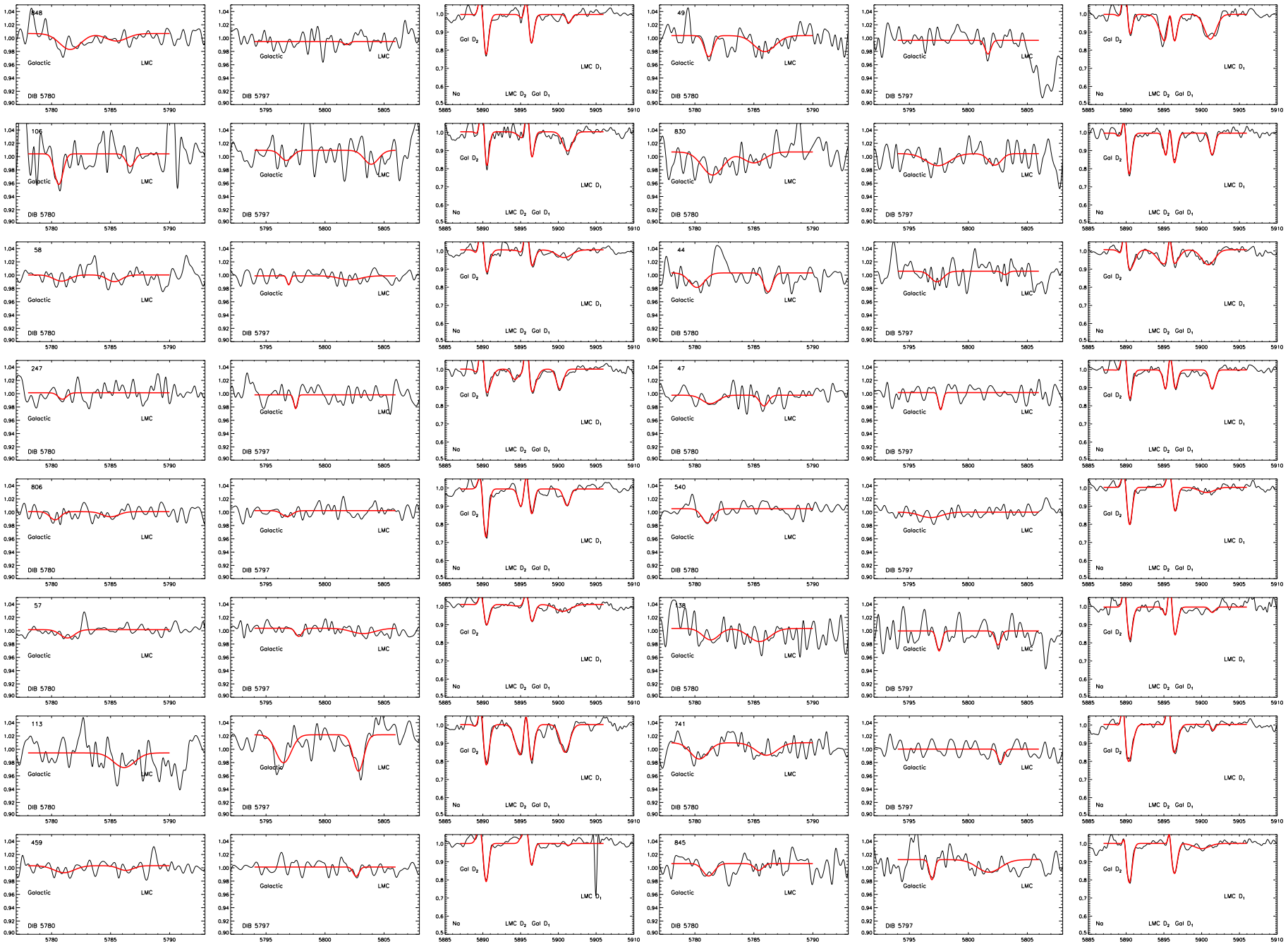
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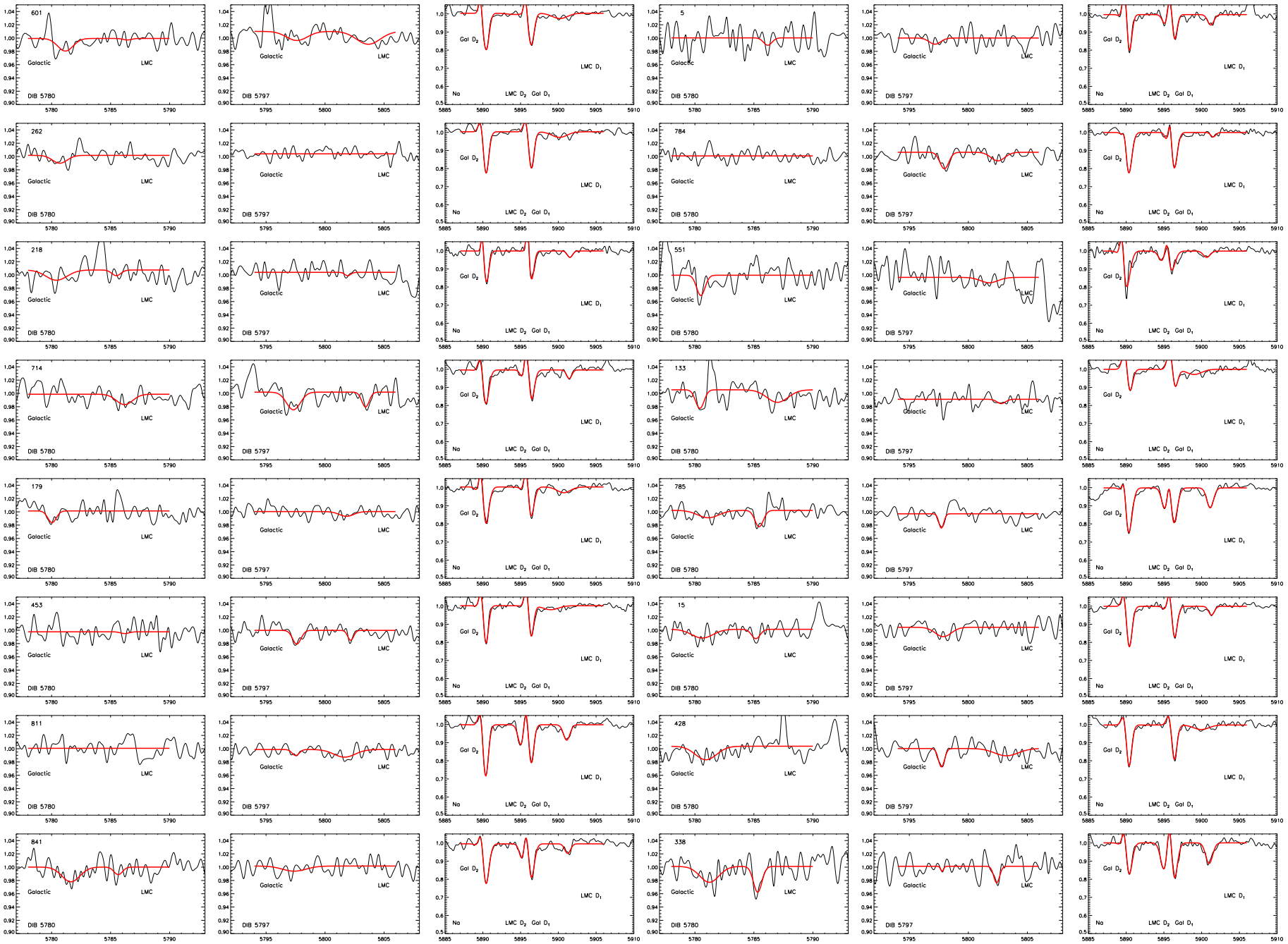
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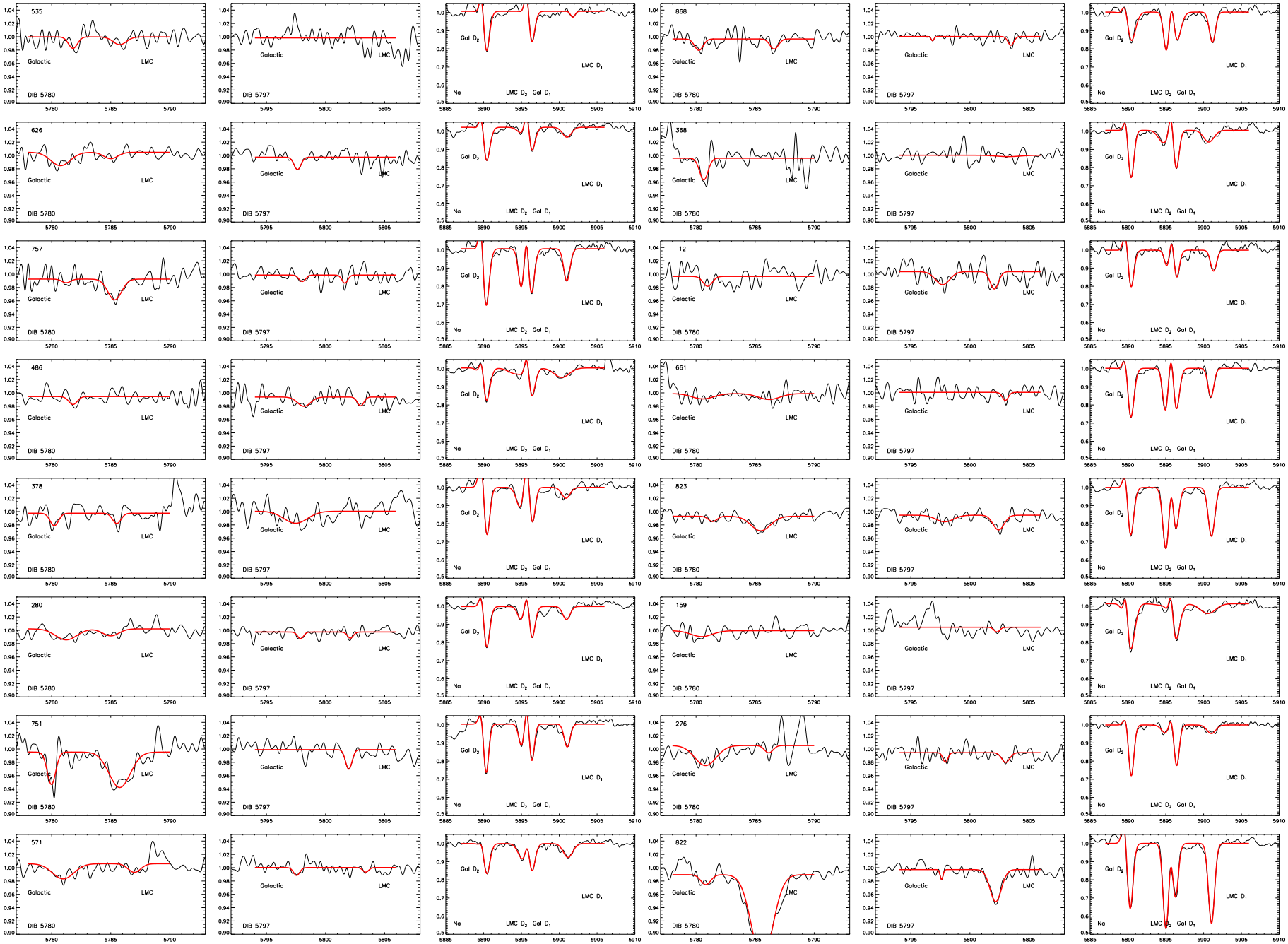
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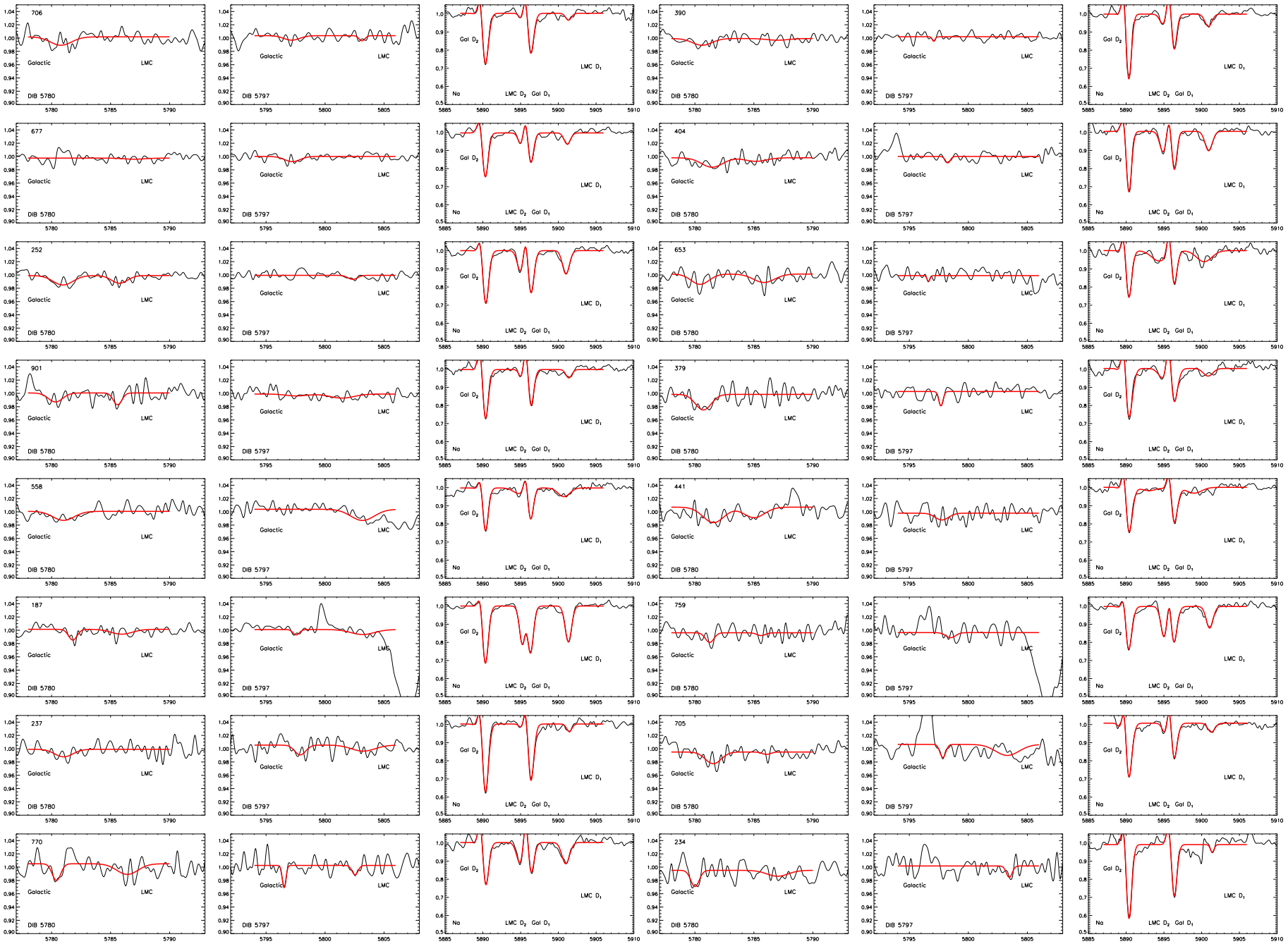
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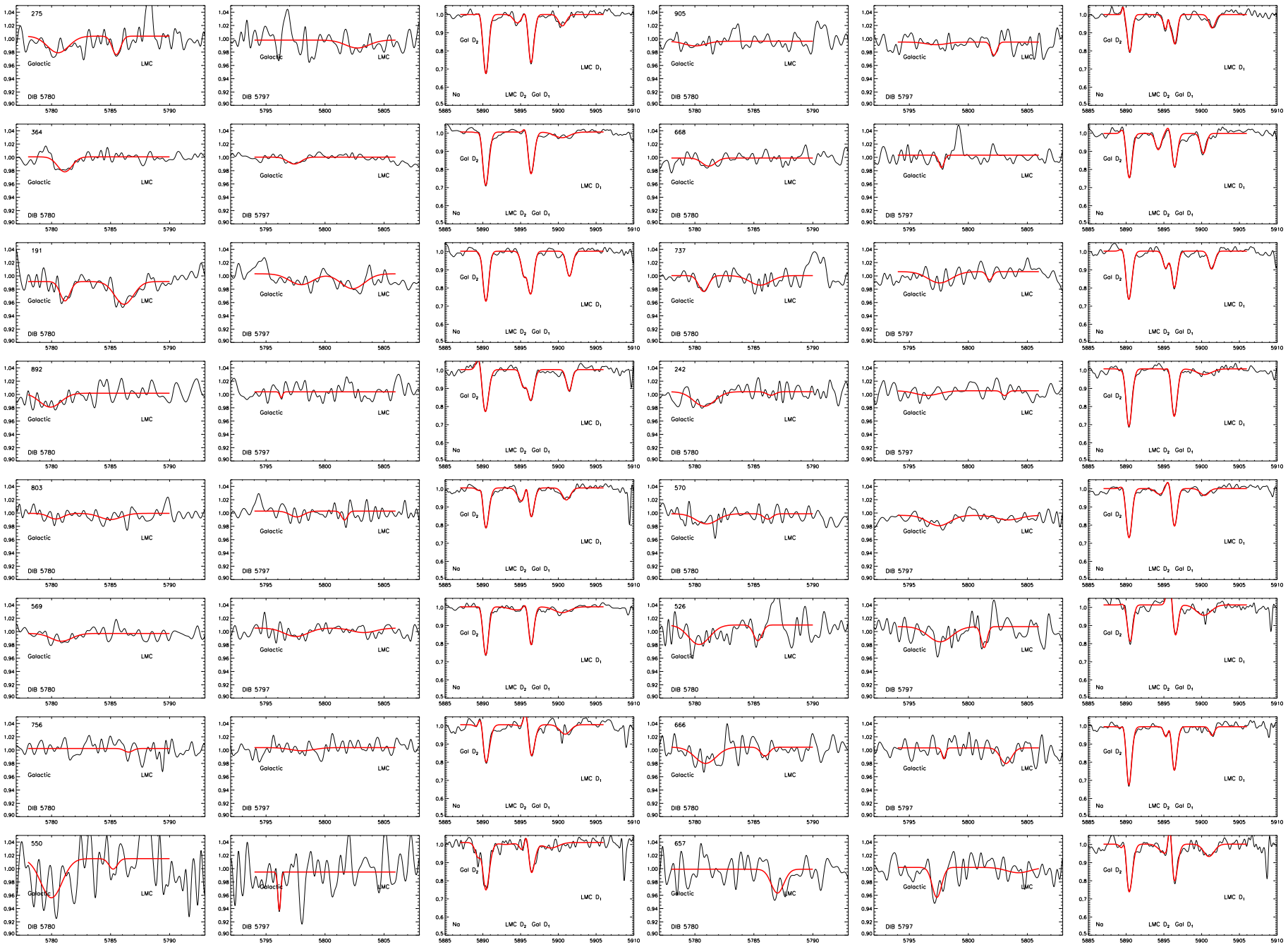
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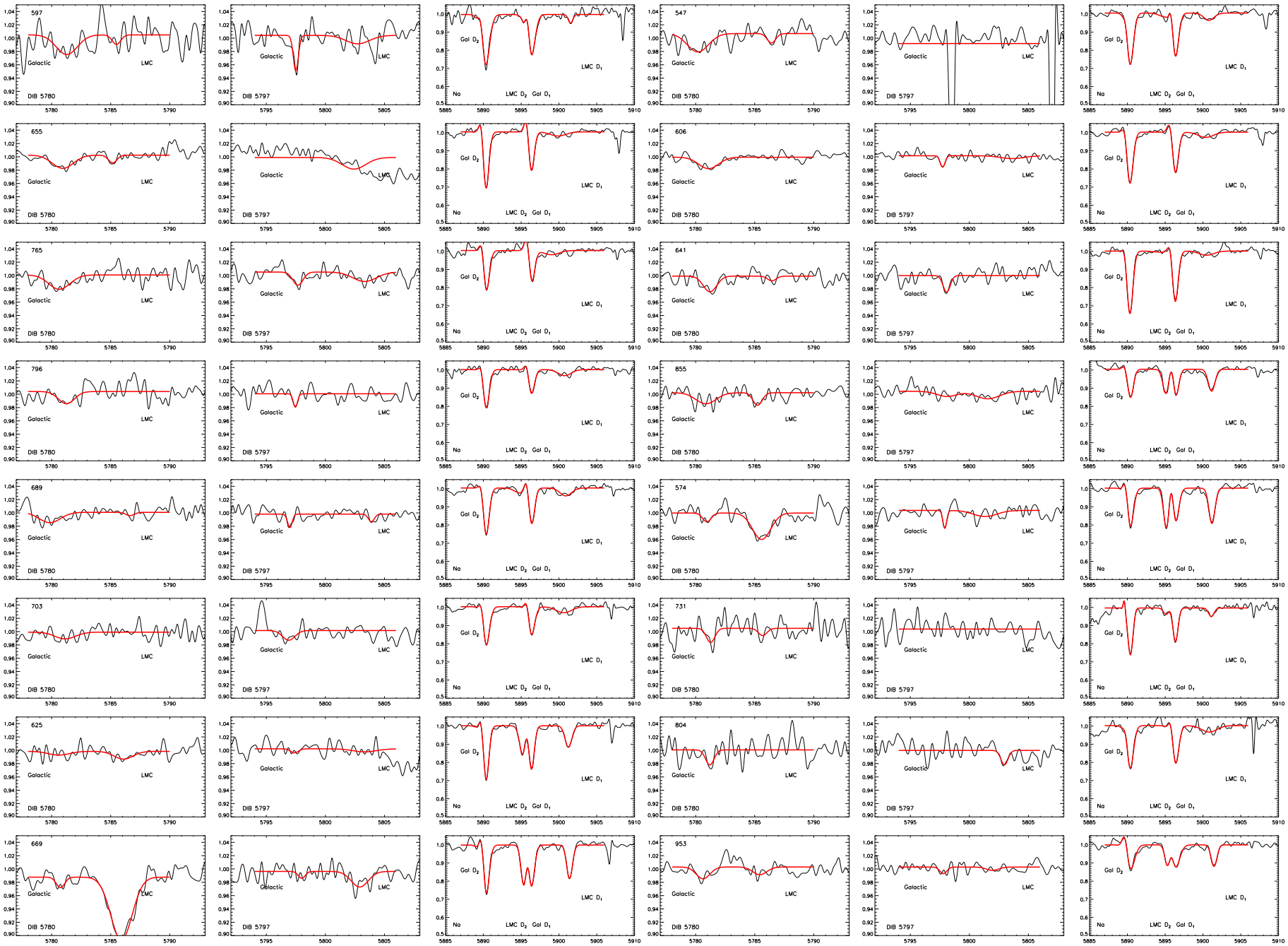
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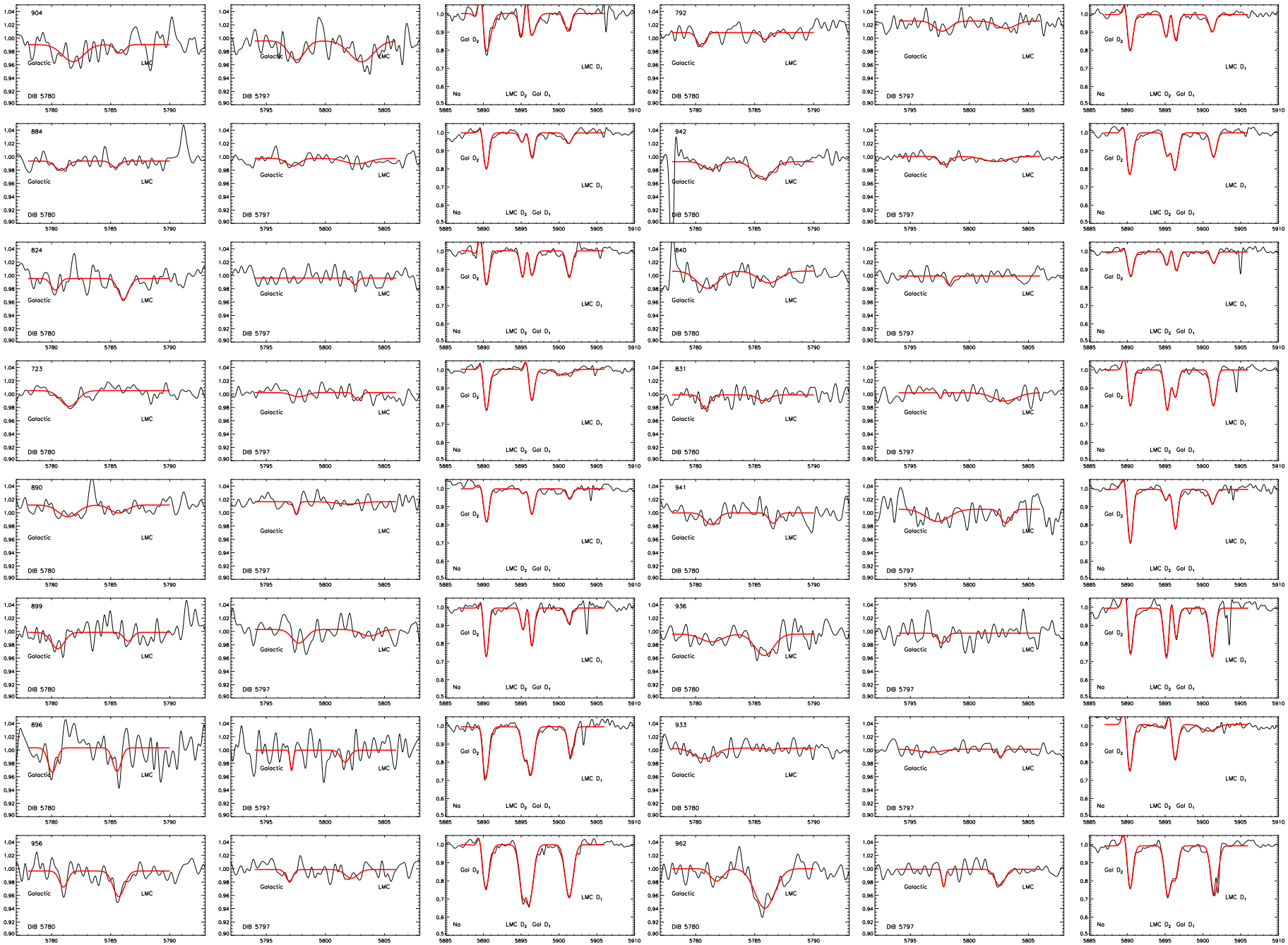
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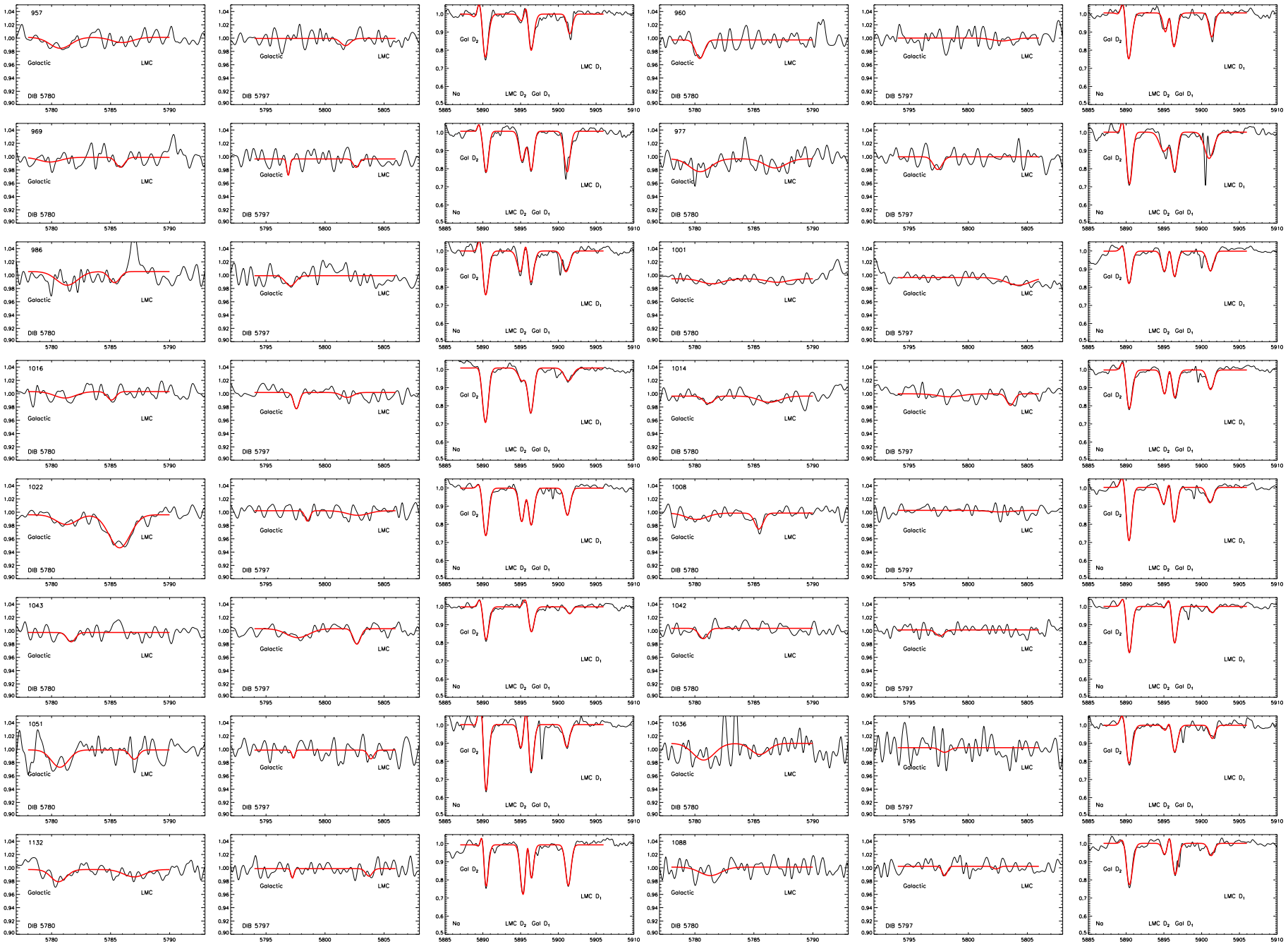
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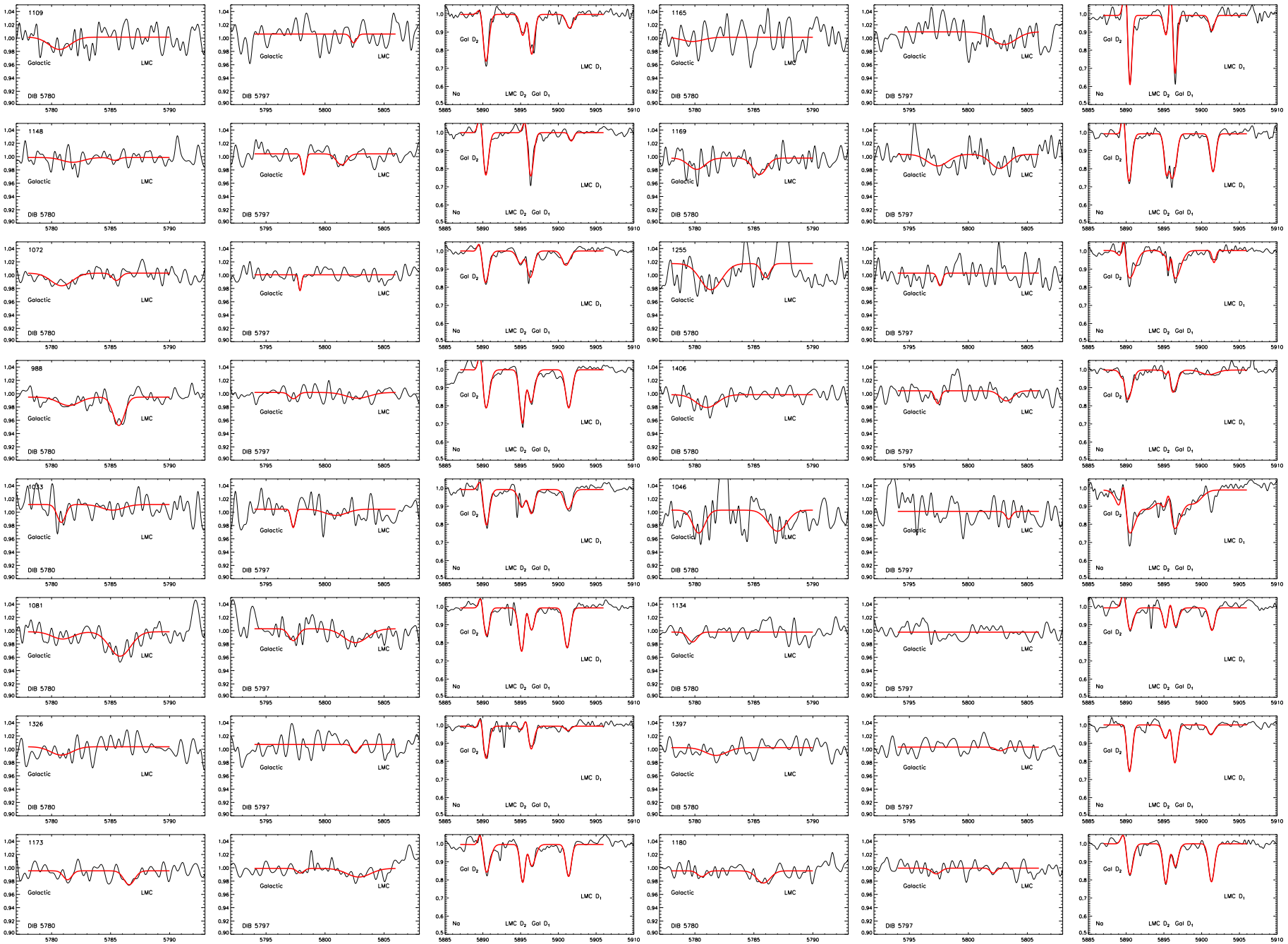
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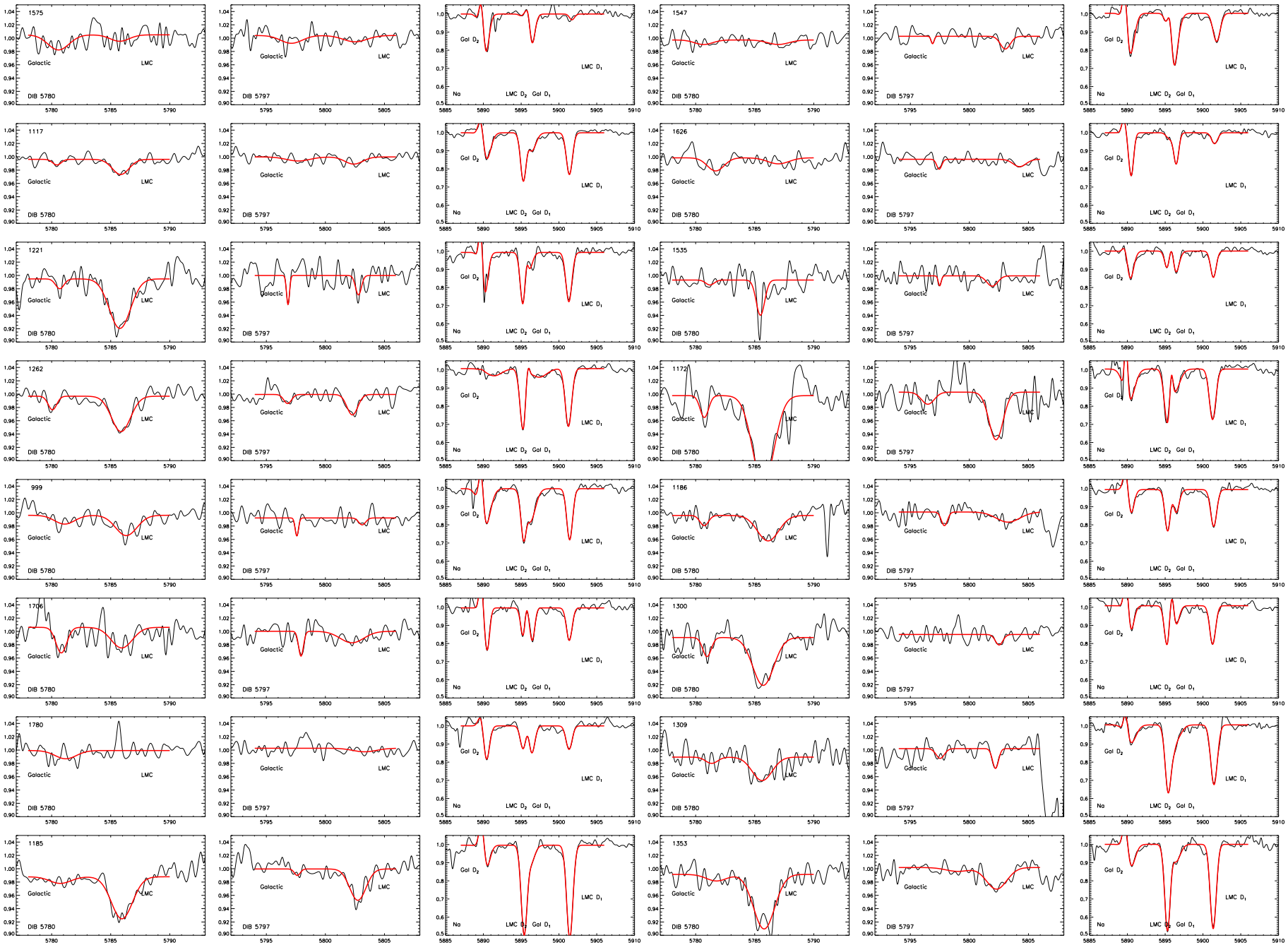
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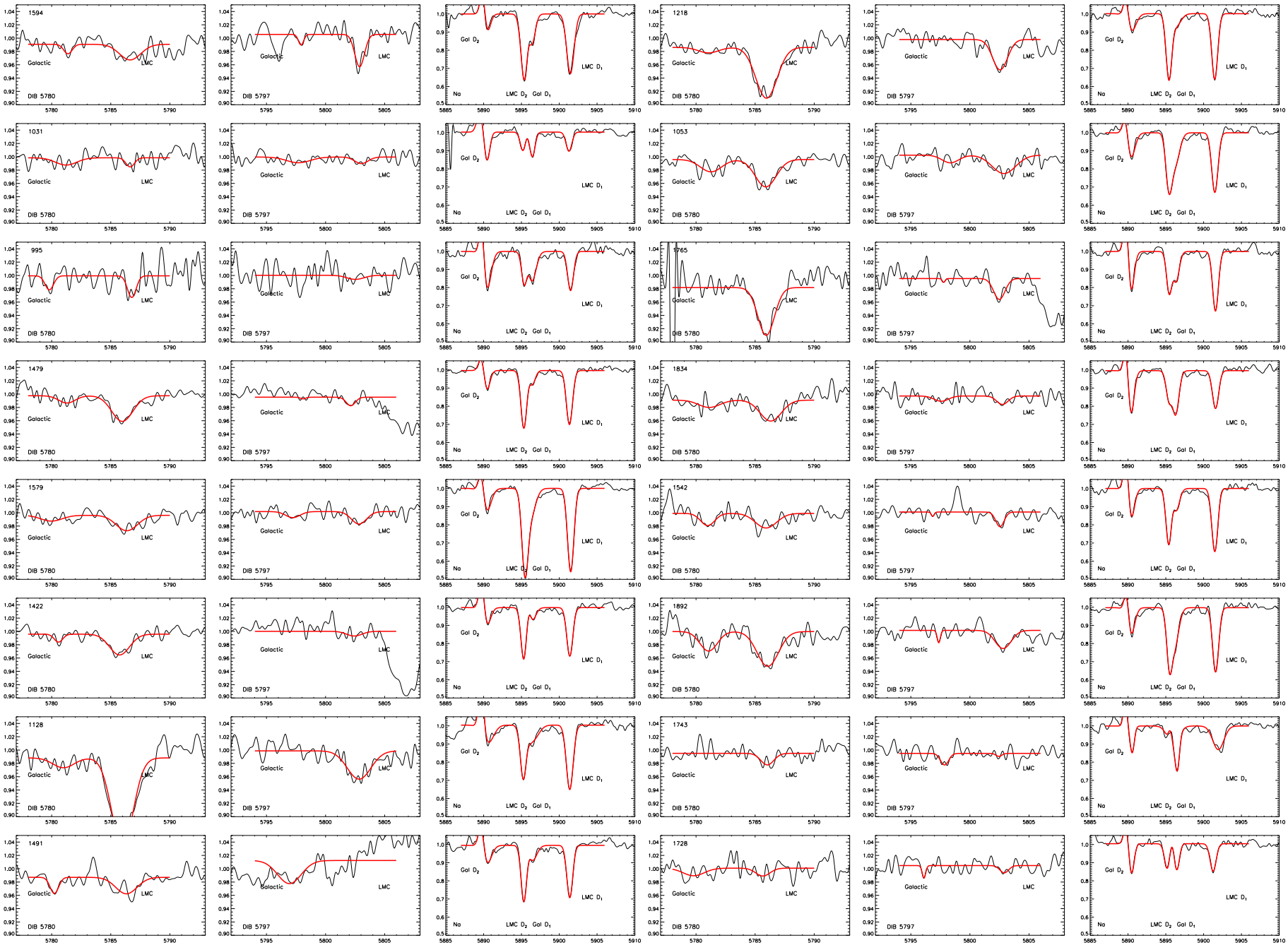
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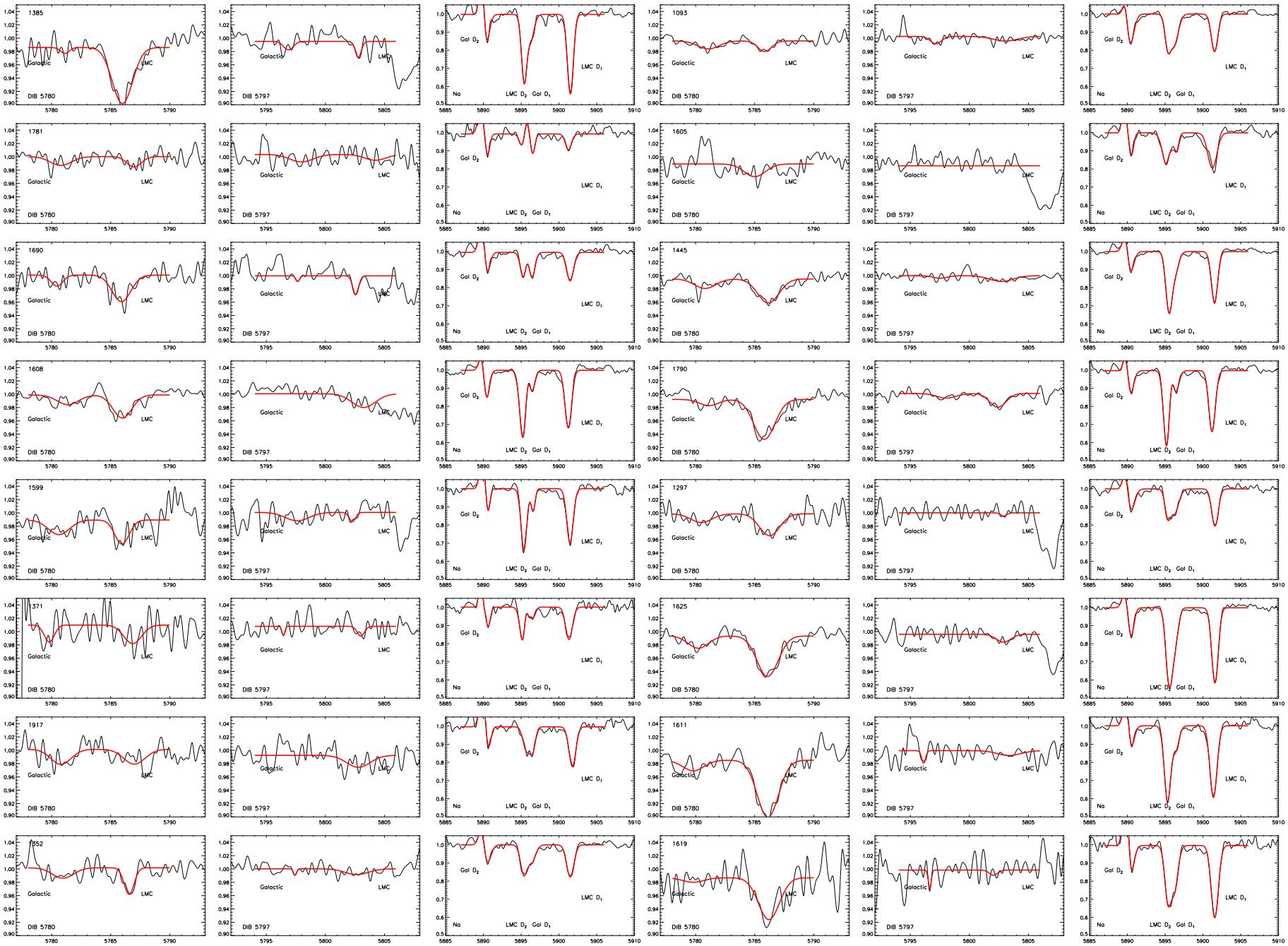
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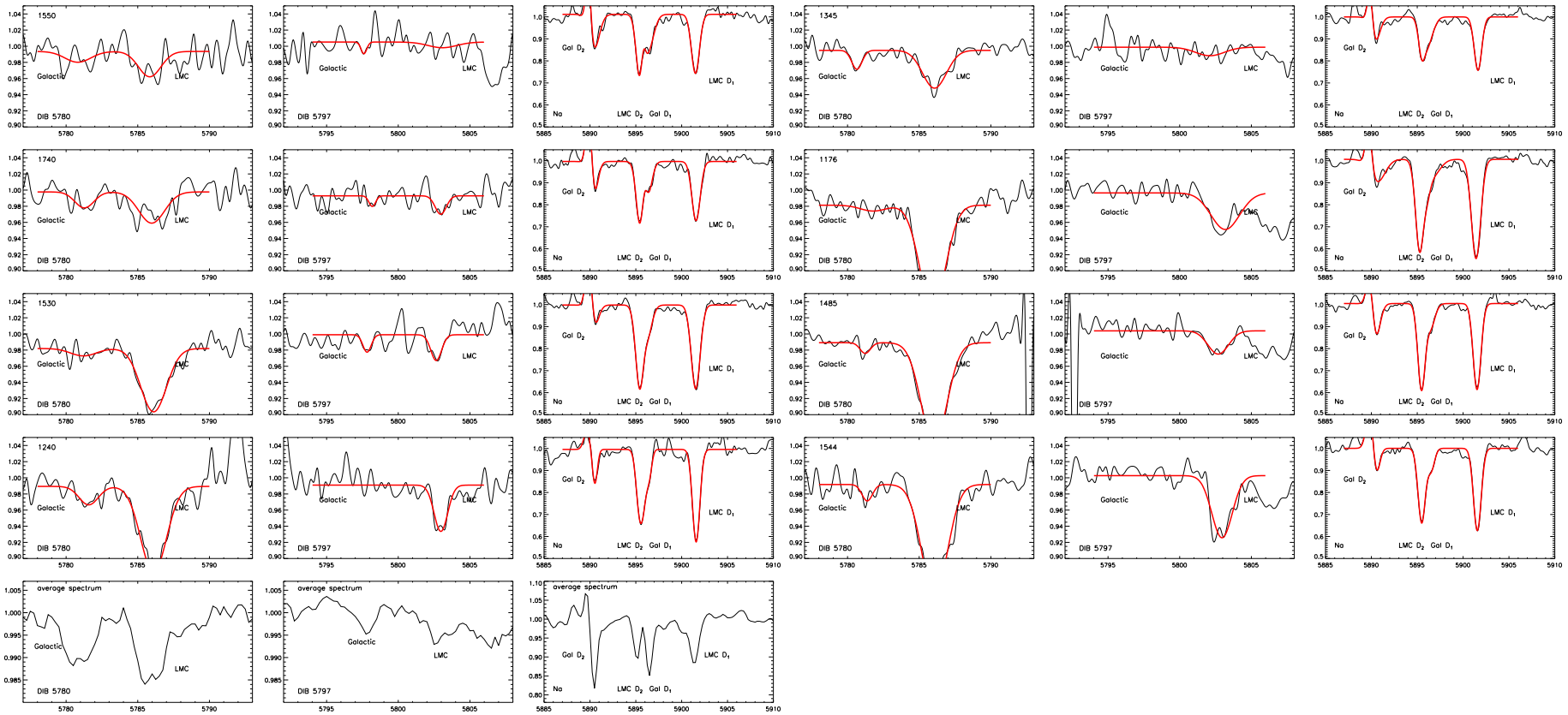
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