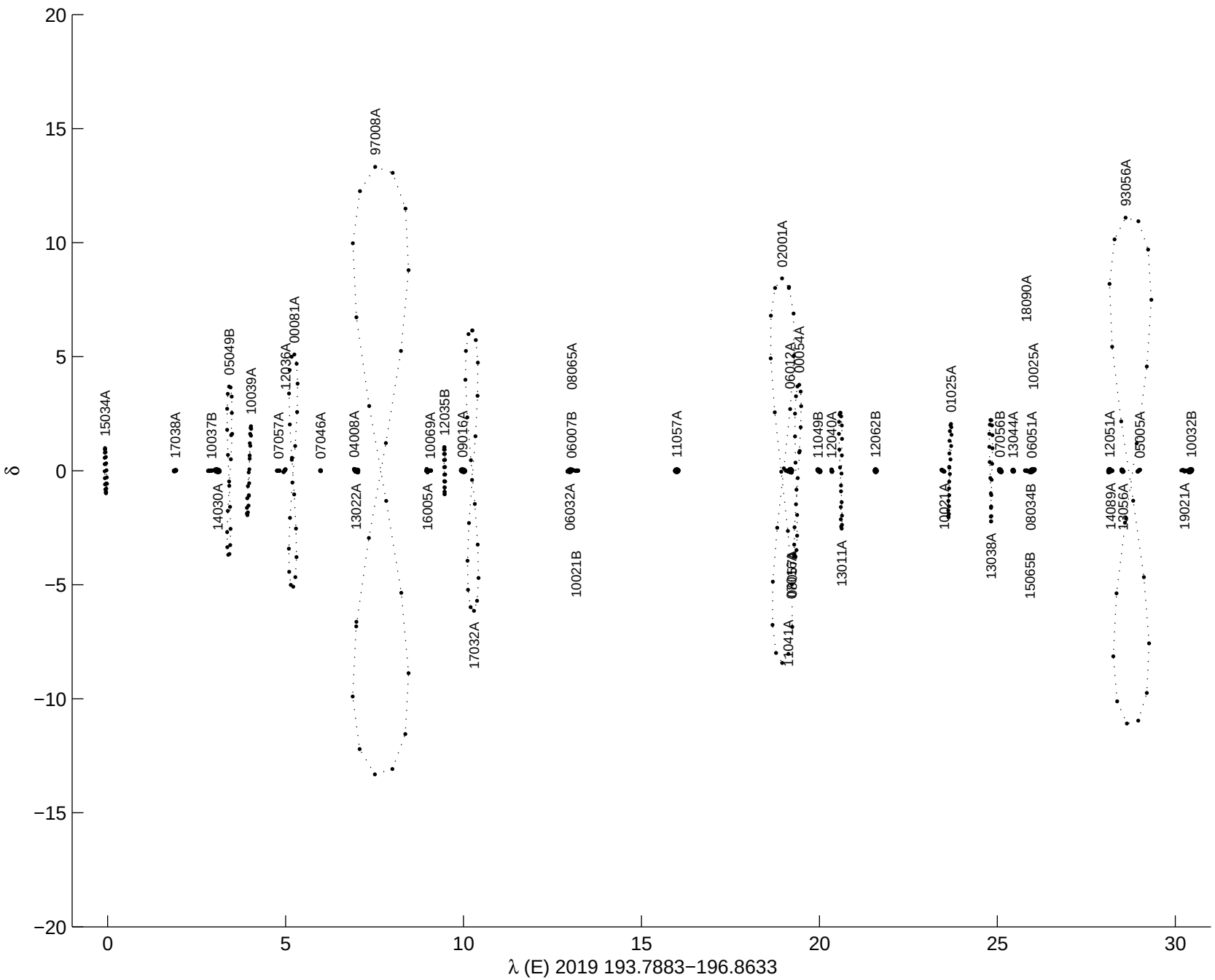
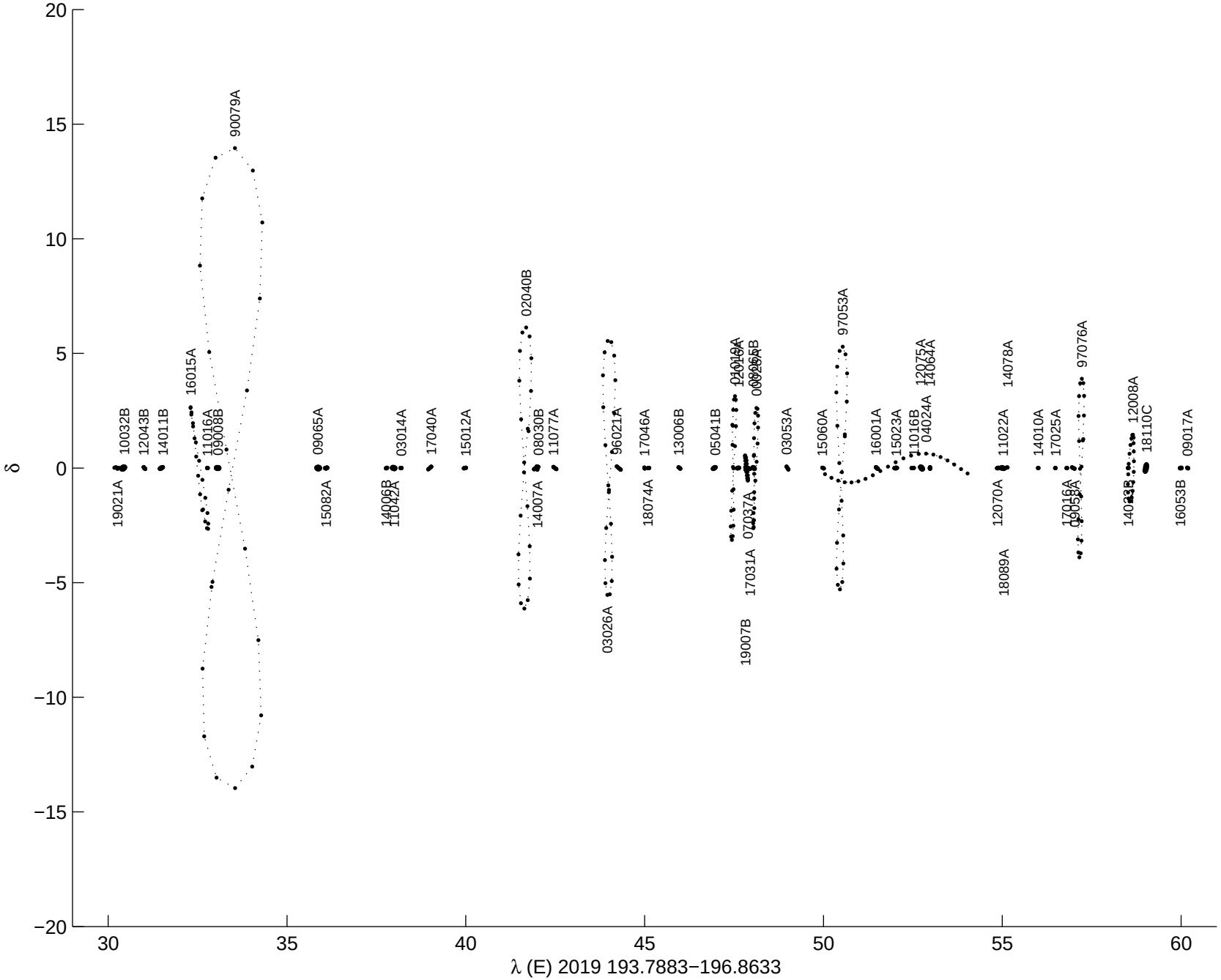
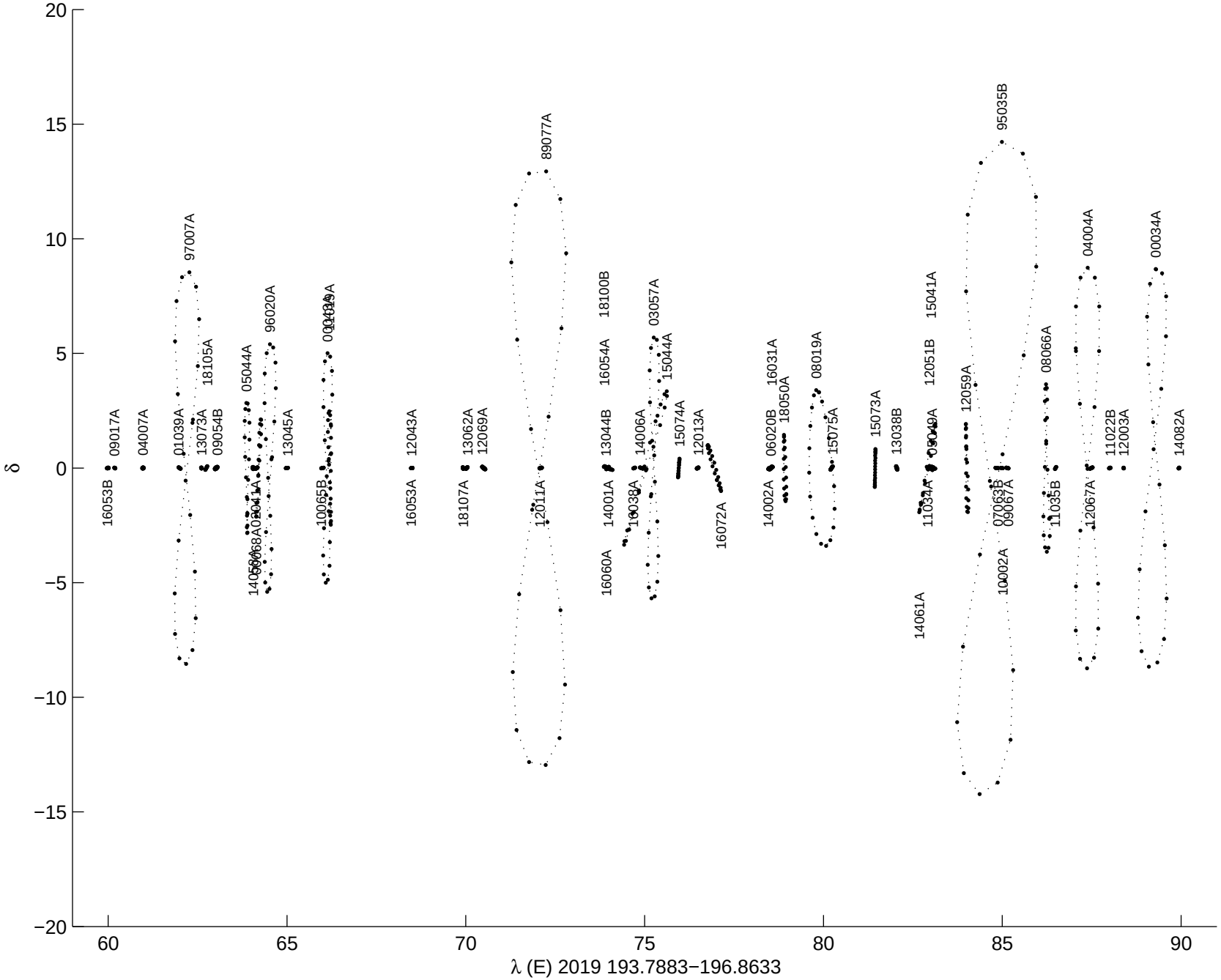
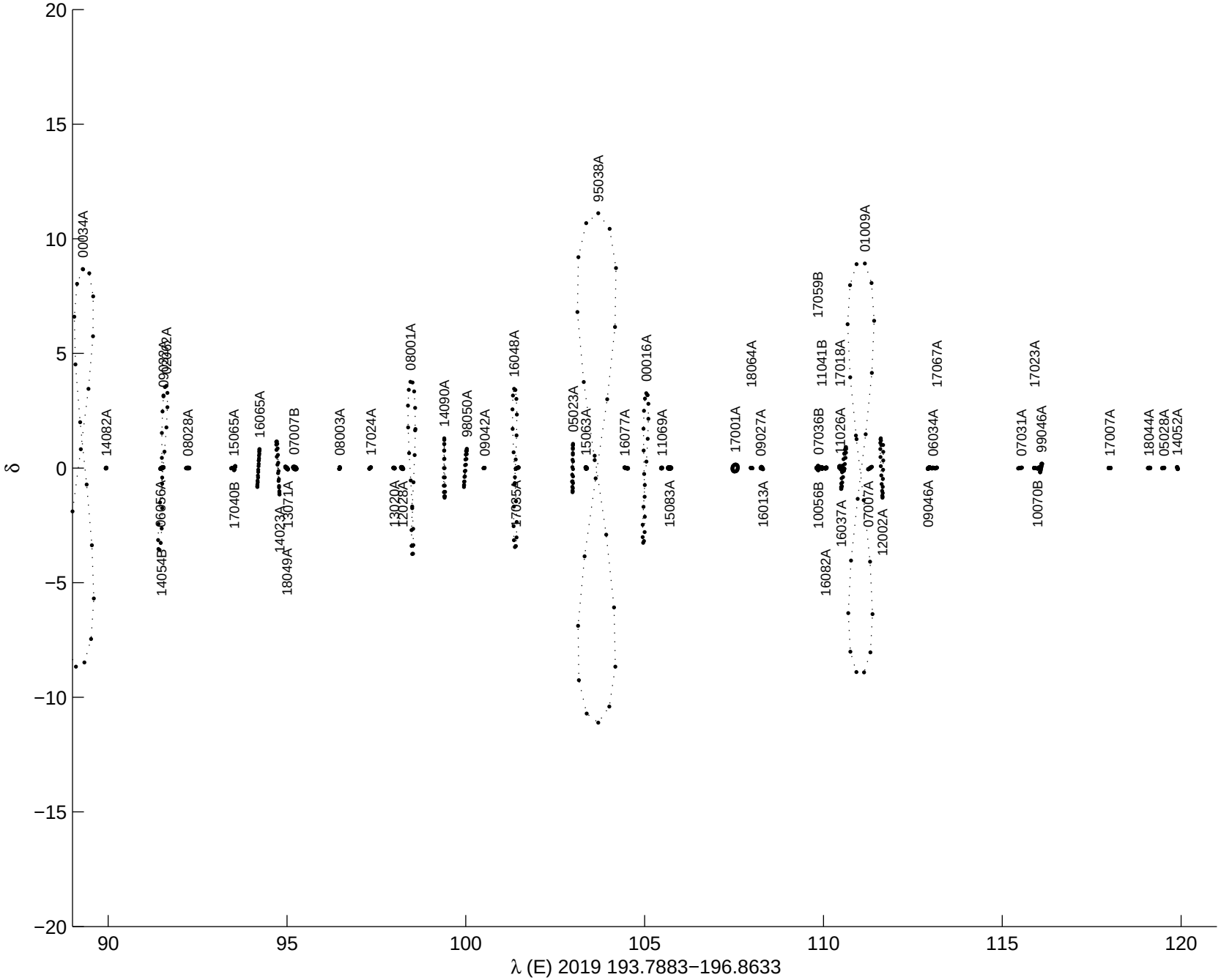
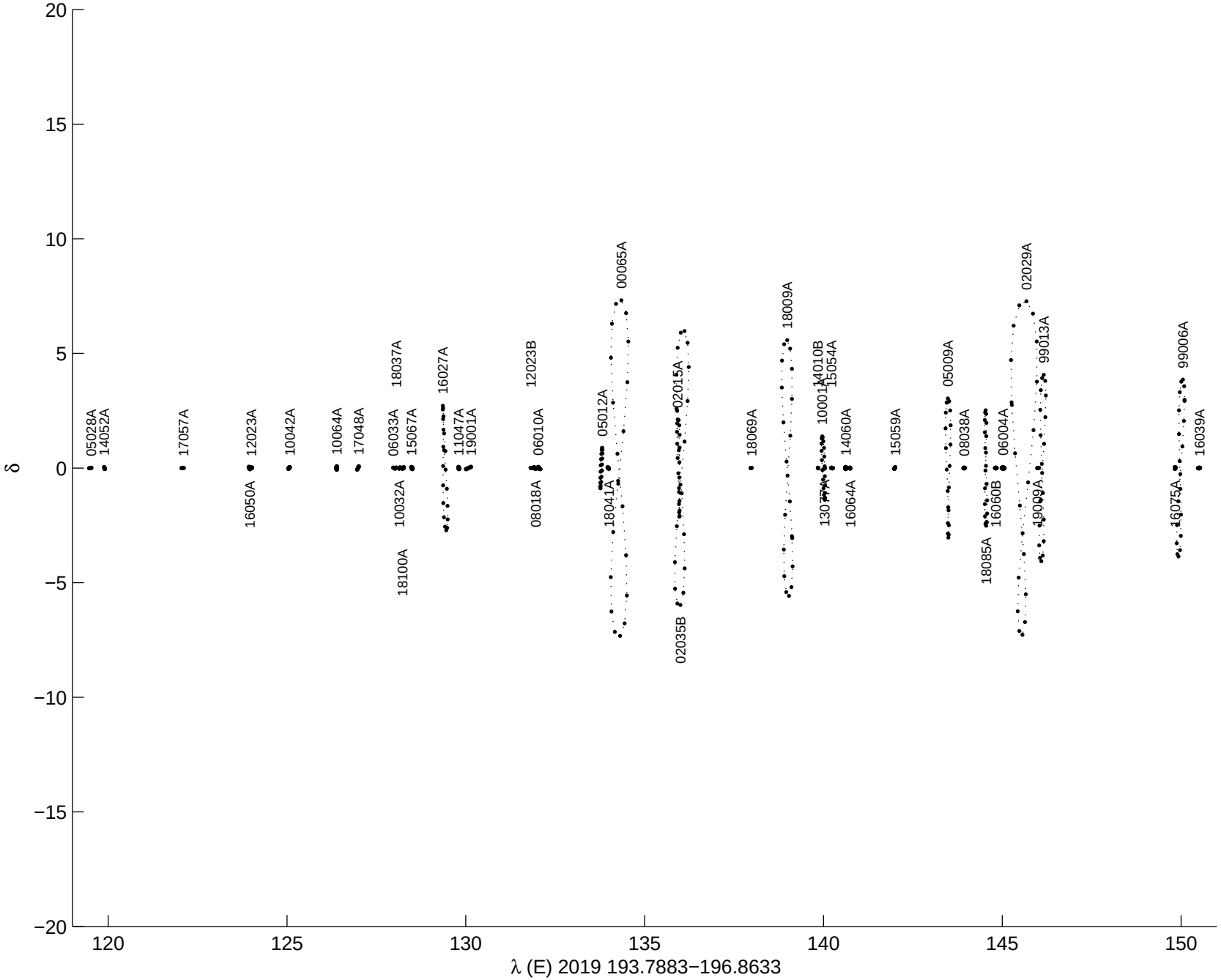
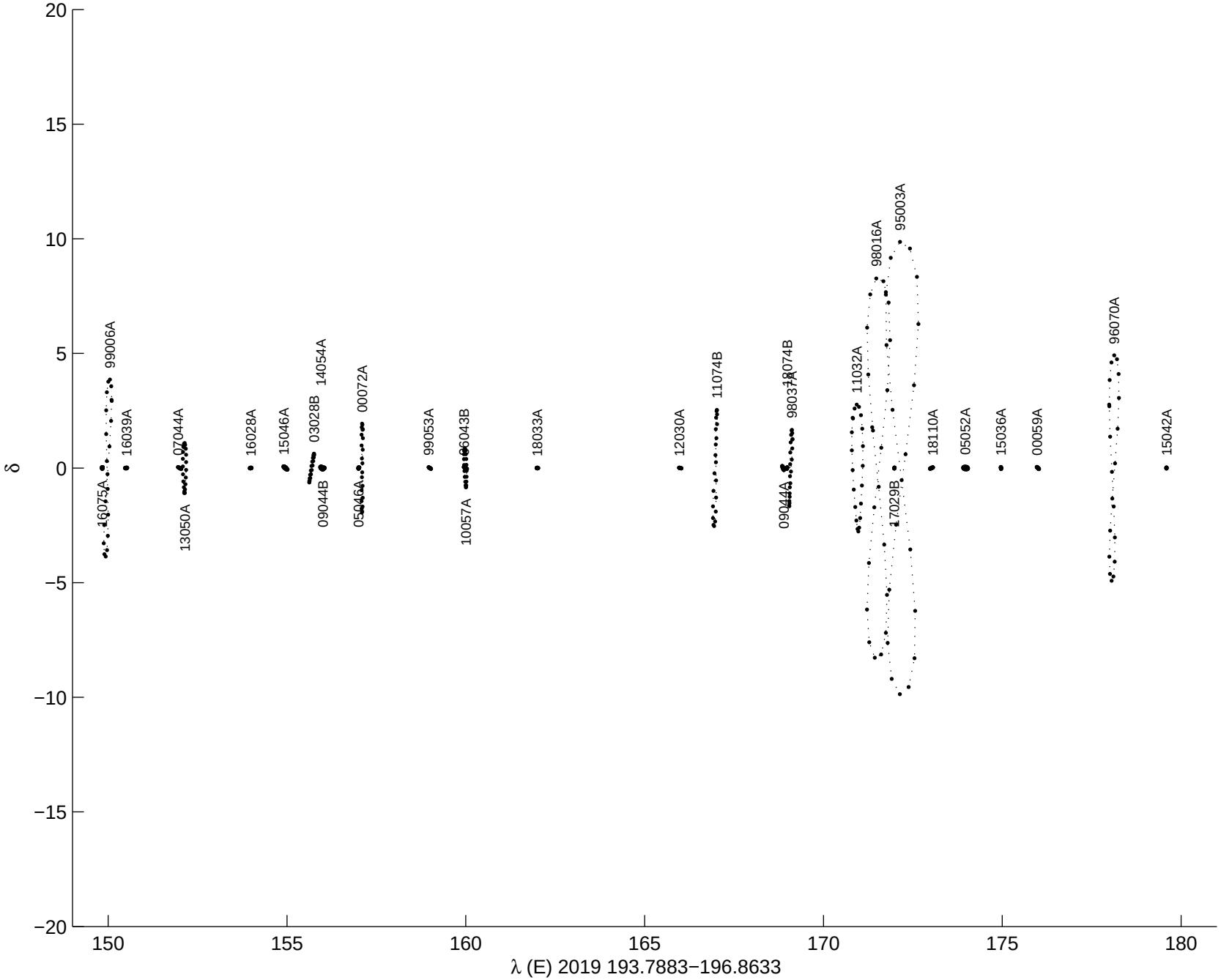

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
0
5
10
15
20
25
30
15034A
17038A
10037B
14030A
05049B
10039A
07057A
12036A
00081A
07046A
97008A
04008A
13022A
10069A
16005A
12035B
09016A
17032A
08065A
06007B
06032A
10021B
11057A
02001A
06012A
00054A
11049B
12040A
13011A
12062B
01025A
13038A
07056B
13044A
18090A
10025A
06051A
08034B
15065B
93056A
12051A
05005A
14089A
19021A
10032B

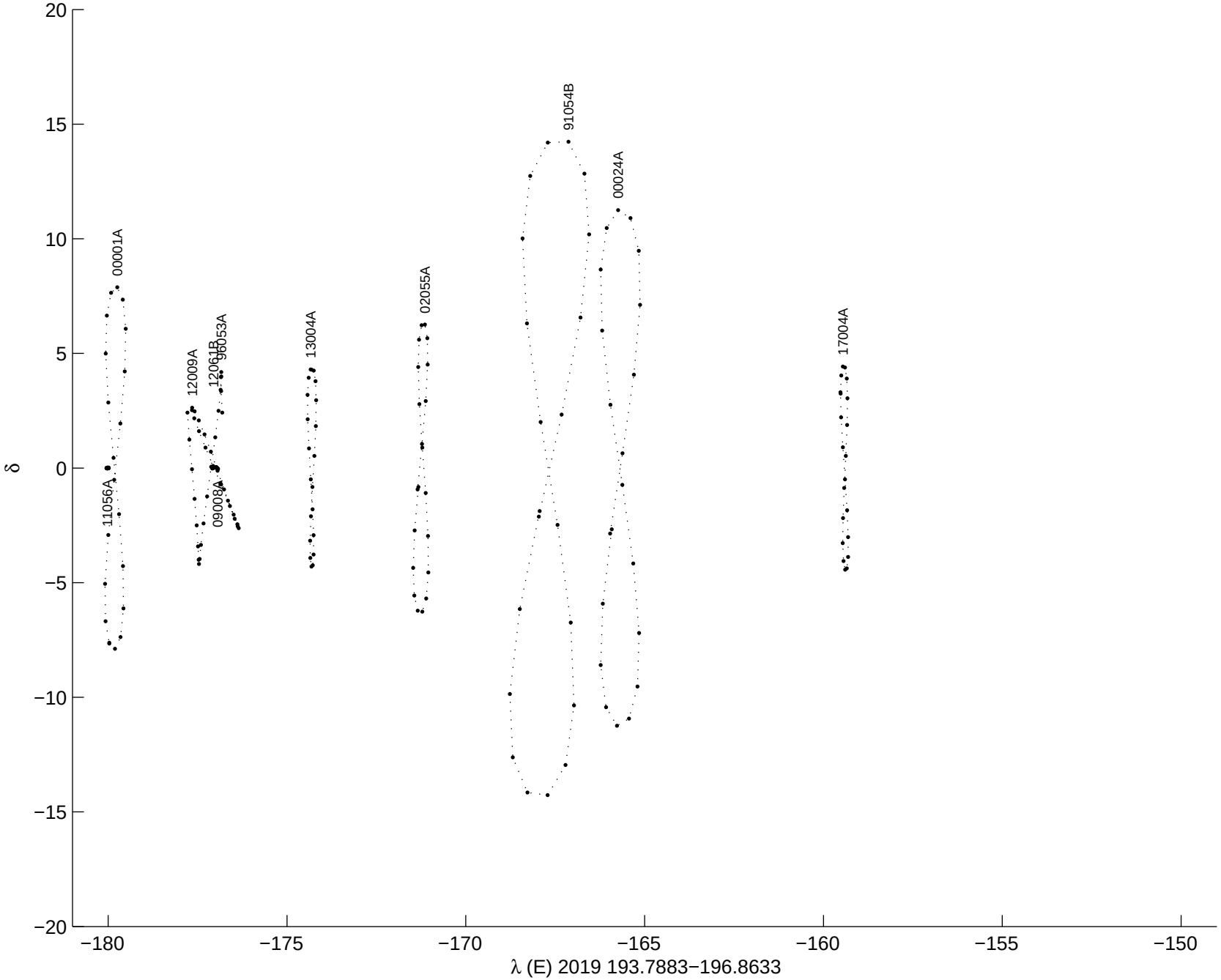

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
30
35
40
45
50
55
60
19021A
10032B
12043B
14011B
16015A
11016A
09008B
90079A
15082A
09065A
14006B
11042A
03014A
17040A
15012A
14007A
08030B
11077A
02040B
03026A
96021A
17046A
18074A
13006B
19007B
17031A
05041B
03053A
15060A
97053A
16001A
15023A
11016B
04024A
12075A
14064A
12070A
18089A
11022A
14078A
14010A
17025A
97076A
16053B
09017A
18110C
12008A

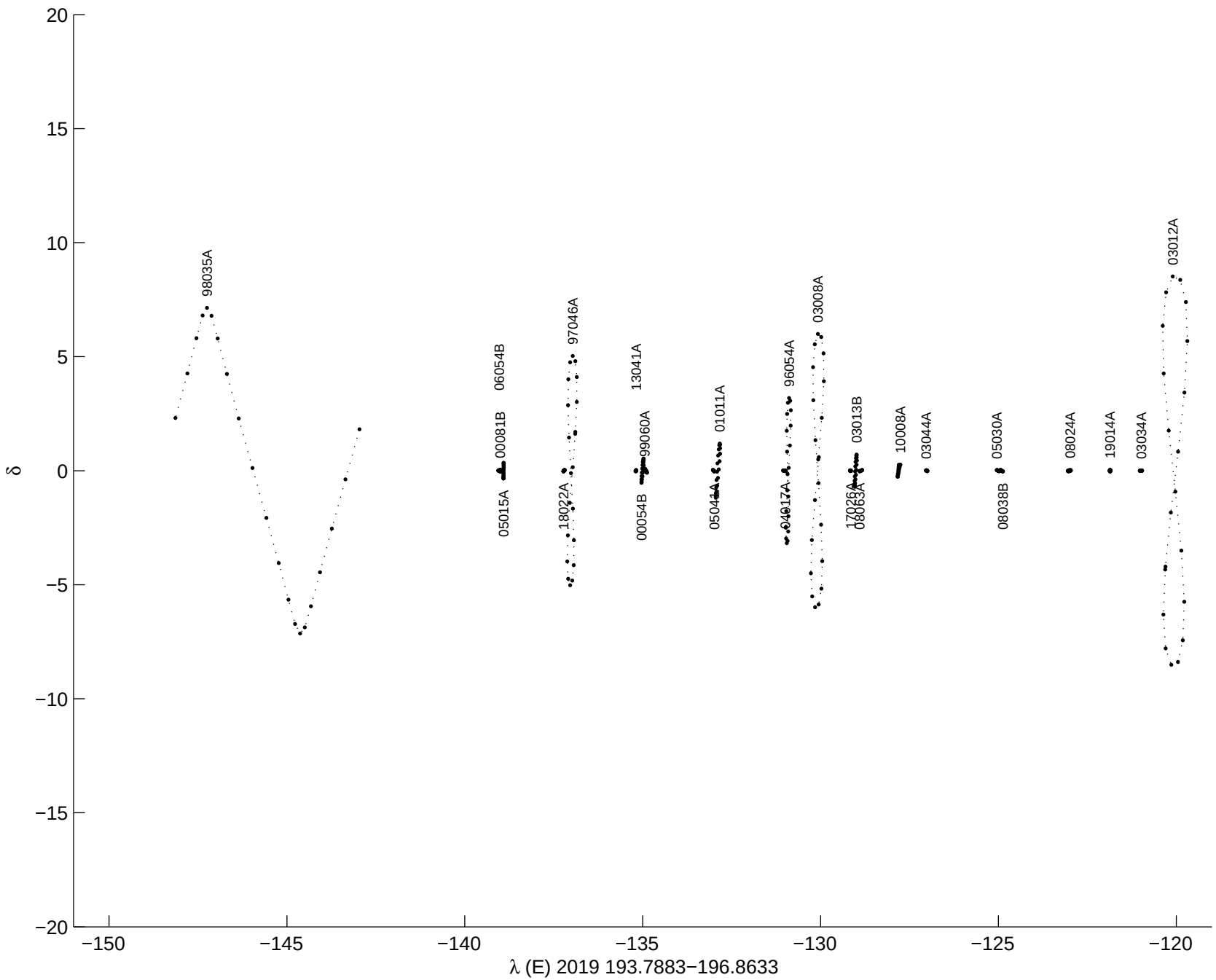

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
60
65
70
75
80
85
90
16053B
09017A
04007A
01039A
97007A
13073A
09054B
18105A
05044A
96020A
13045A
10065B
16053A
12043A
18107A
13062A
12069A
89077A
12011A
14001A
13044B
16054A
18100B
16060A
14006A
03057A
15044A
15074A
12013A
16072A
14002A
06020B
16031A
18050A
08019A
15075A
15073A
13038B
14061A
11031A
12051B
15041A
12059A
95035B
07063B
09067A
10002A
08066A
11035B
12067A
04004A
11022B
12003A
00034A
14082A

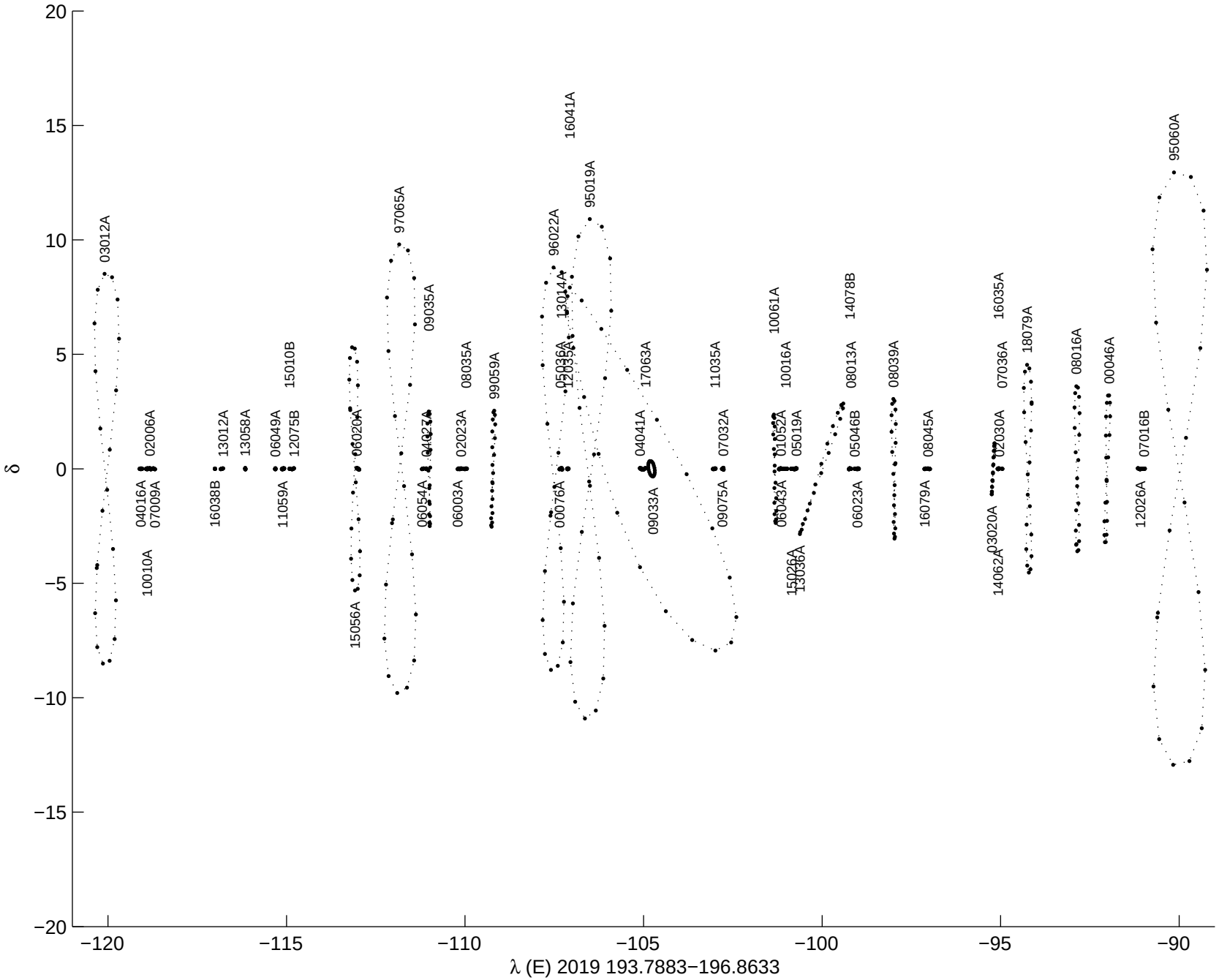

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
90
95
100
105
110
115
120
00034A
14082A
14054B
08028A
17040B
15065A
16065A
18049A
07007B
08003A
17024A
08001A
14090A
98050A
09042A
16048A
95038A
05023A
15063A
16077A
00016A
11069A
15083A
17001A
09027A
16013A
18064A
16082A
10056B
16037A
07036B
11026A
11041B
17018A
17059B
01009A
12002A
09046A
06034A
17067A
07031A
10070B
99046A
17023A
17007A
18044A
05028A
14052A

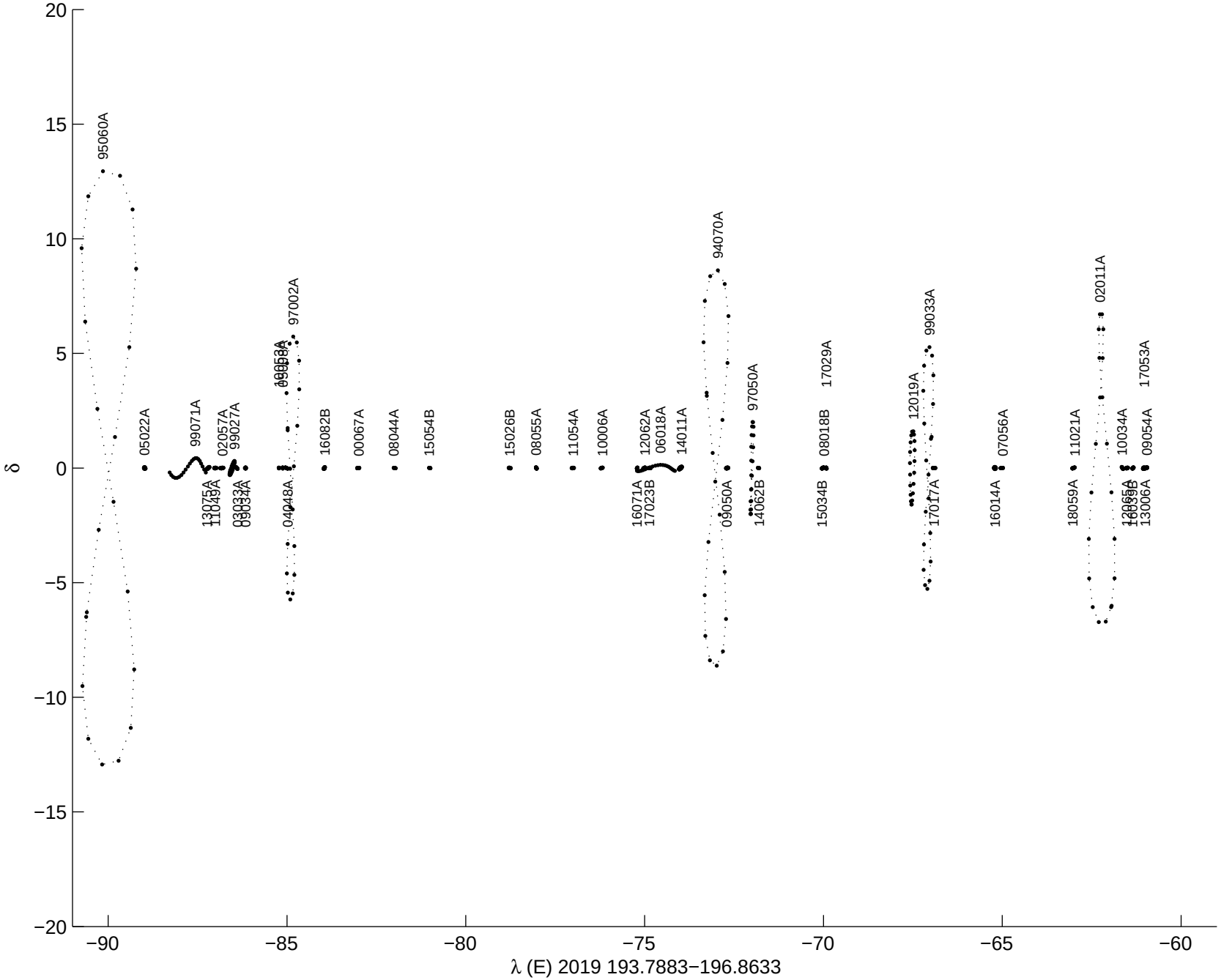

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
120
125
130
135
140
145
150
05028A
14052A
17057A
12023A
16050A
10042A
10064A
17048A
06033A
15067A
10032A
18100A
18037A
16027A
11047A
19001A
12023B
06010A
08018A
05012A
18041A
00065A
02015A
02035B
18069A
18009A
14010B
15054A
14060A
16064A
15059A
05009A
08038A
18085A
16060B
06004A
02029A
99013A
99006A
16075A
16039A

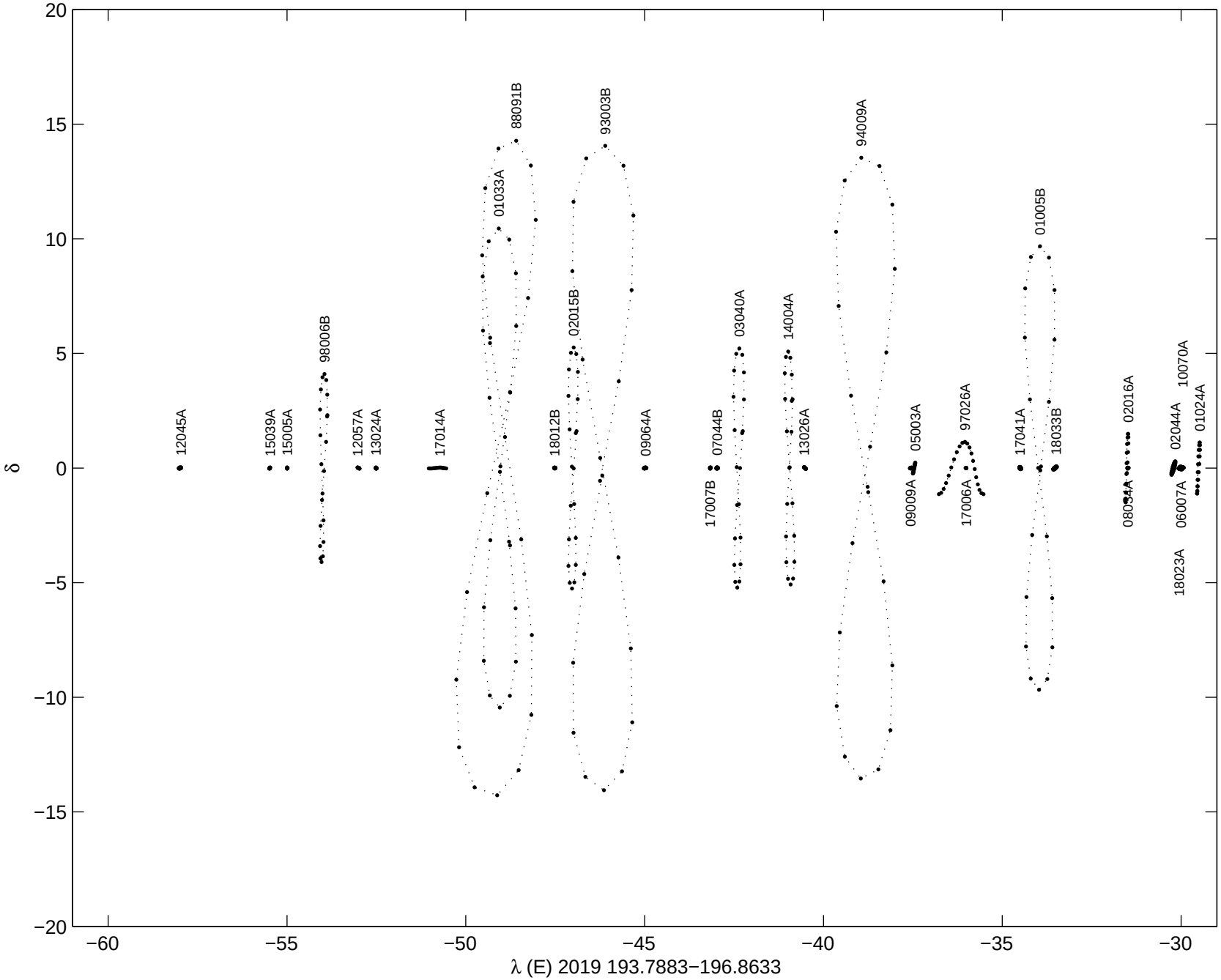

δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
150
155
160
165
170
175
180
99006A
16039A
16075A
13050A
07044A
16028A
15046A
03028B
14054A
09044B
00072A
99053A
10057A
16043B
18033A
12030A
11074B
98037A
18074B
11032A
98016A
95003A
17029B
18110A
05052A
15036A
00059A
96070A
15042A

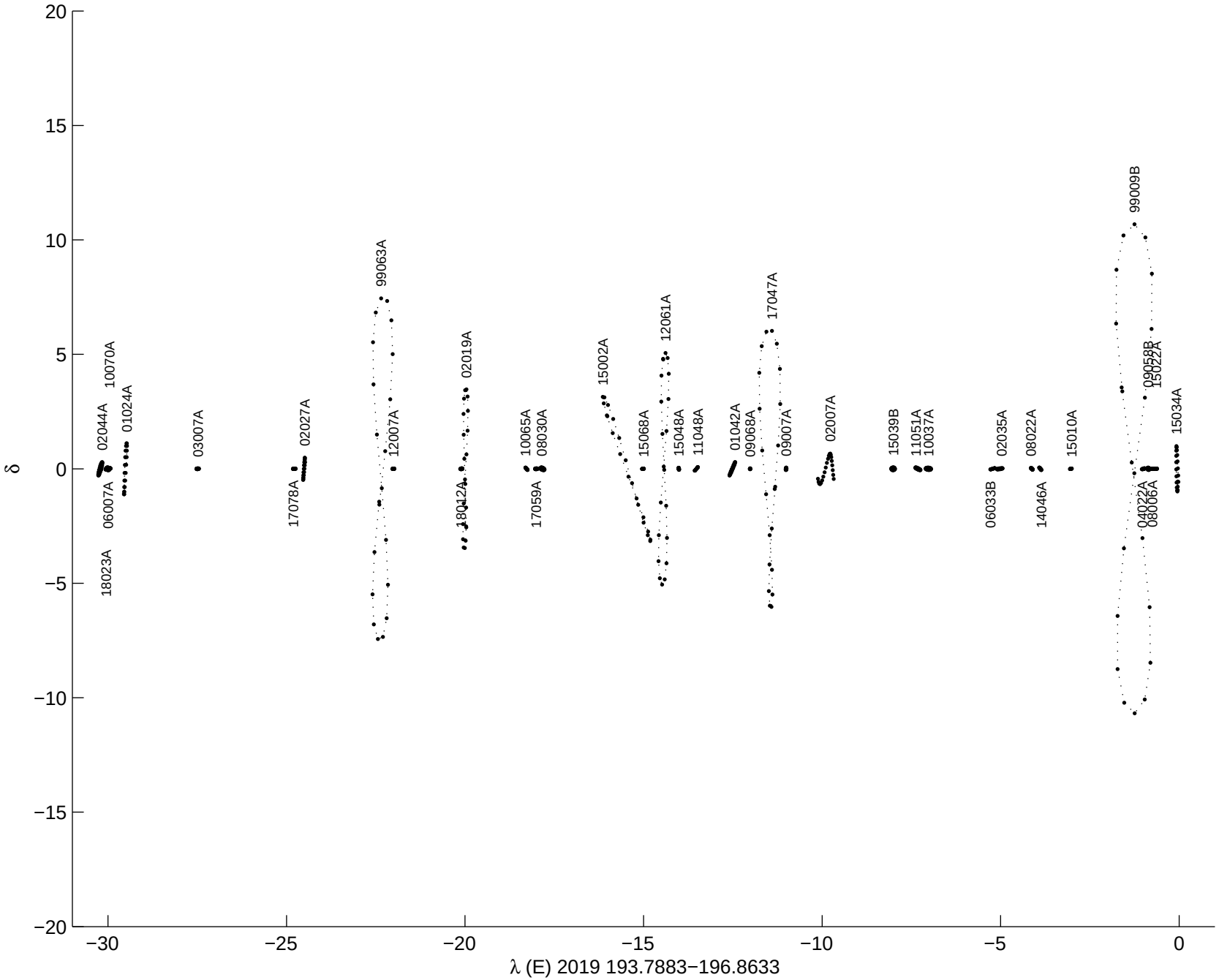

20
15
10
5
0
−5
−10
−15
−20
δ
−180
−175
−170
−165
−160
−155
−150
λ (E) 2019 193.7883−196.8633
00001A
11056A
12009A
12061B
96053A
09008A
13004A
02055A
91054B
00024A
17004A


20
15
10
5
0
−5
−10
−15
−20
δ
−150
−145
−140
−135
−130
−125
−120
λ (E) 2019 193.7883−196.8633
98035A
05015A
06054B
00081B
18022A
97046A
00054B
99060A
13041A
05044A
01011A
04017A
96054A
03008A
17026A
08063A
03013B
10008A
03044A
08038B
05030A
08024A
19014A
03034A
03012A


δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
−120
−115
−110
−105
−100
−95
−90
03012A
10010A
04016A
07009A
02006A
16038B
13012A
13058A
11059A
06049A
12075B
15010B
15056A
06020A
97065A
06054A
09035A
06003A
02023A
08035A
99059A
00076A
96022A
13014A
05036A
12035A
16041A
95019A
09033A
04041A
17063A
09075A
07032A
11035A
06043A
01052A
05019A
15026A
13036A
10061A
10016A
06023A
05046B
08013A
14078B
16079A
08045A
08039A
14062A
03020A
02030A
07036A
16035A
18079A
08016A
00046A
12026A
07016B
95060A


δ
λ (E) 2019 193.7883−196.8633
95060A
05022A
99071A
13075A
11049A
02057A
99027A
08033A
09034A
04048A
97002A
16082B
00067A
08044A
15054B
15026B
08055A
11054A
10006A
16071A
17023B
12062A
06018A
14011A
09050A
94070A
14062B
97050A
15034B
08018B
17029A
17017A
12019A
99033A
16014A
07056A
18059A
11021A
02011A
12065A
13006A
10034A
09054A
17053A


20
15
10
5
0
−5
−10
−15
−20
δ
−60
−55
−50
−45
−40
−35
−30
λ (E) 2019 193.7883−196.8633
12045A
15039A
15005A
98006B
12057A
13024A
17014A
01033A
88091B
18012B
02015B
93003B
09064A
17007B
07044B
03040A
14004A
13026A
09009A
05003A
94009A
17006A
97026A
17041A
01005B
18033B
08034A
02016A
18023A
06007A
02044A
10070A
01024A


δ
λ (E) 2019 193.7883−196.8633
20
15
10
5
0
−5
−10
−15
−20
−30
−25
−20
−15
−10
−5
0
18023A
06007A
02044A
10070A
01024A
03007A
17078A
02027A
99063A
12007A
18012A
02019A
17059A
10065A
08030A
15002A
15068A
12061A
15048A
11048A
01042A
09068A
17047A
09007A
02007A
15039B
11051A
10037A
06033B
02035A
14046A
08022A
15010A
99009B
04022A
08006A
09058B
15022A
15034A