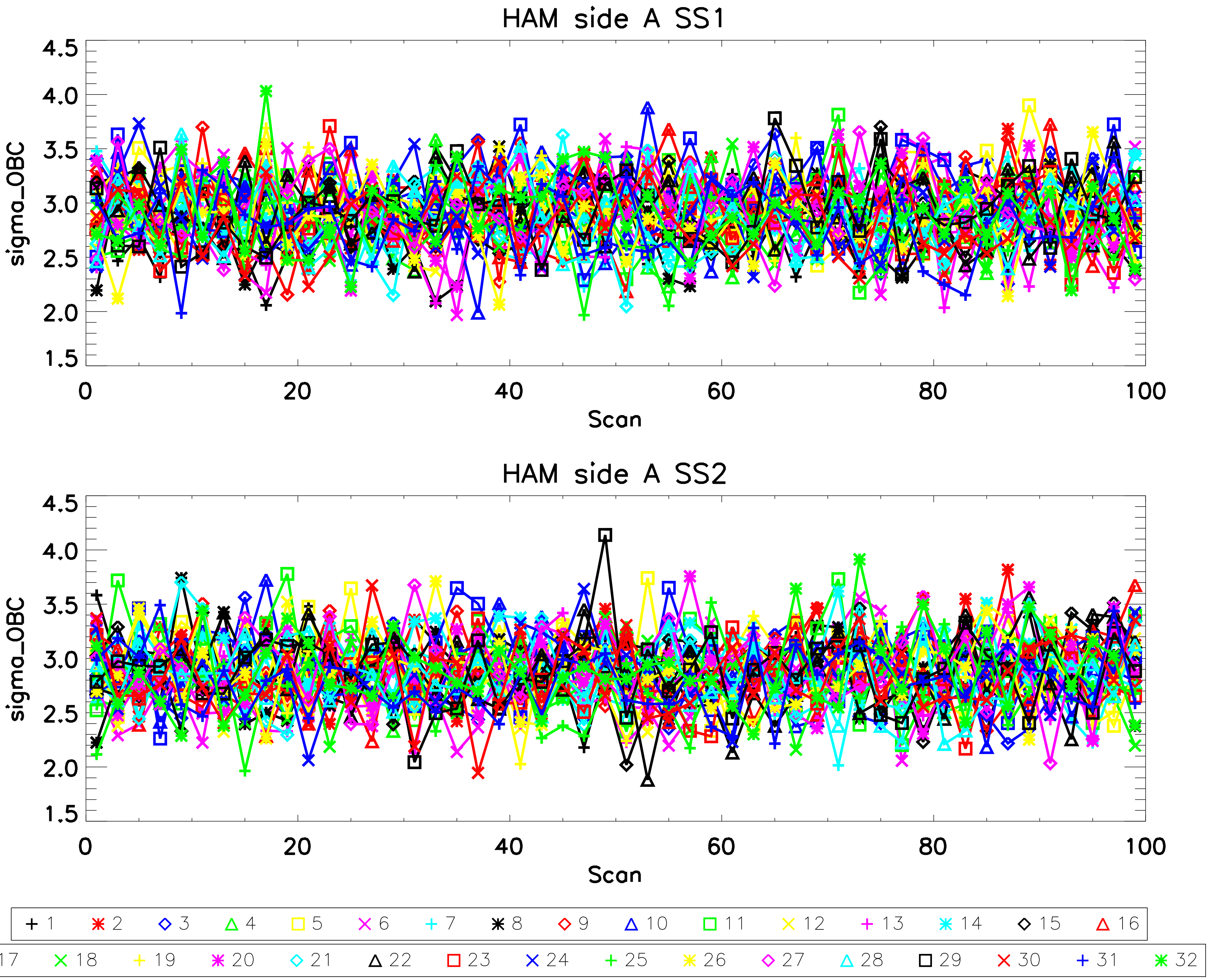
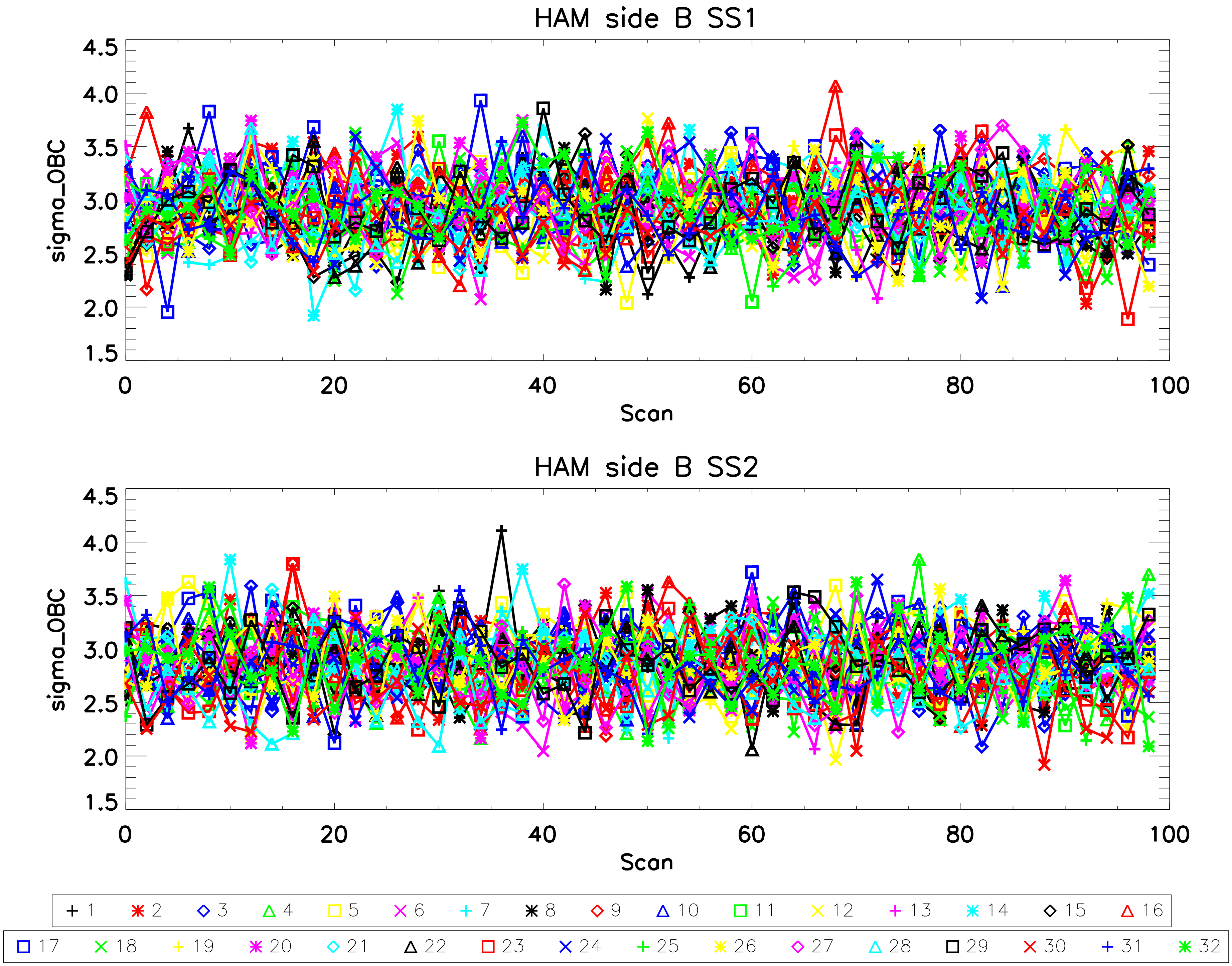
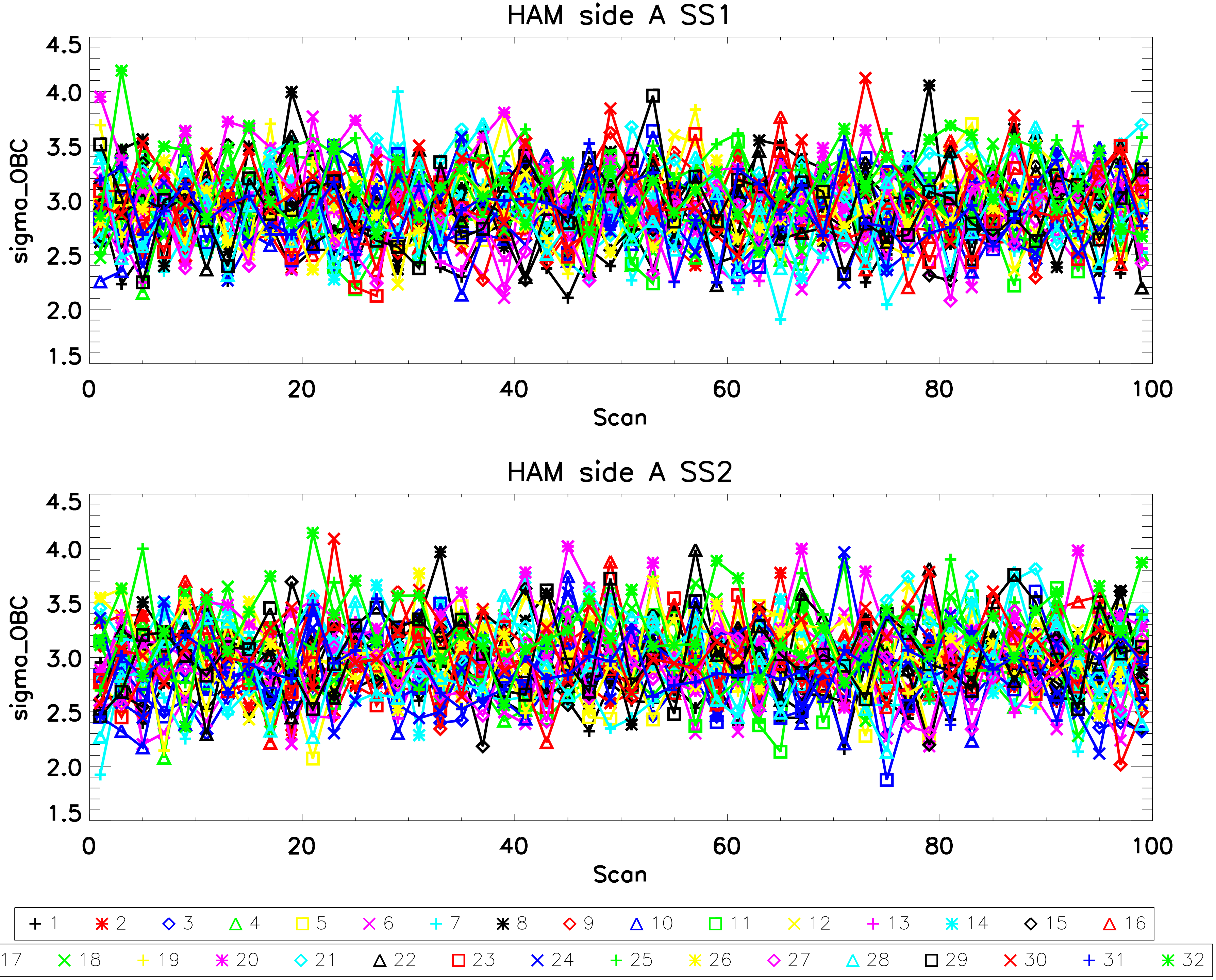
# sigma_OBC vs Scan I4 Collect 1

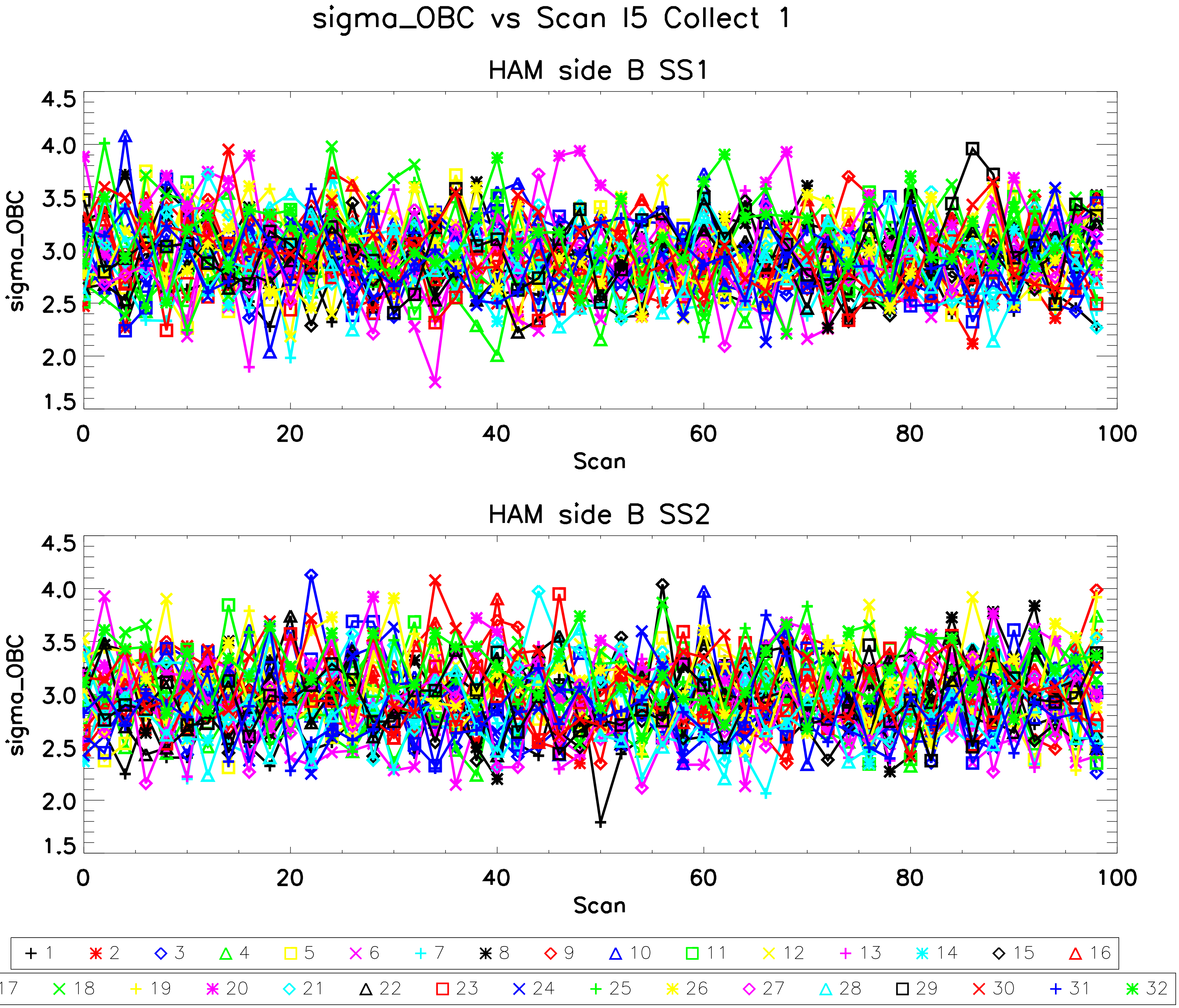


# sigma_OBC vs Scan I4 Collect 1



sigma_OBC vs Scan I5 Collect 1




sigma_OBC vs Scan I5 Collect 1
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
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25
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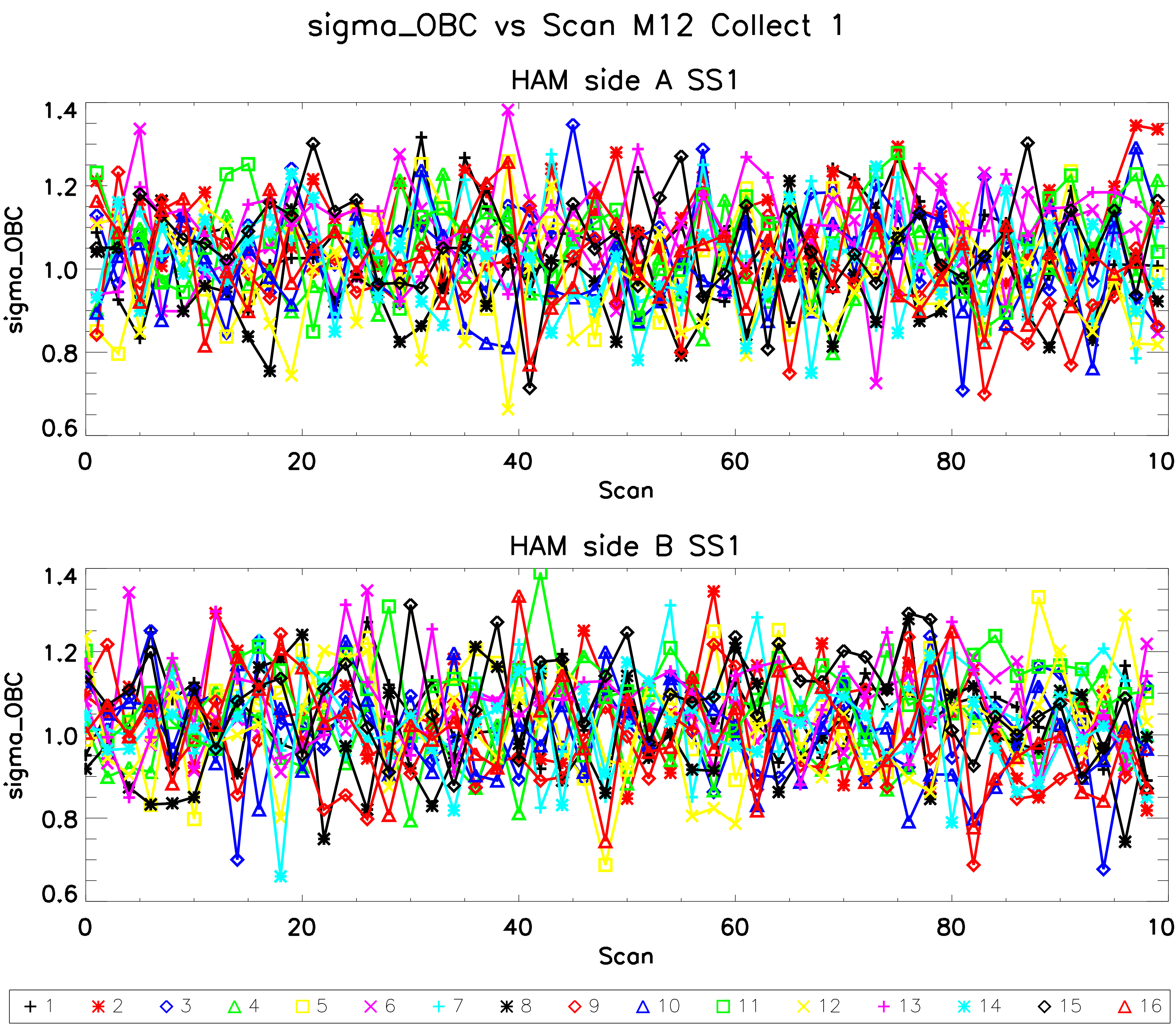
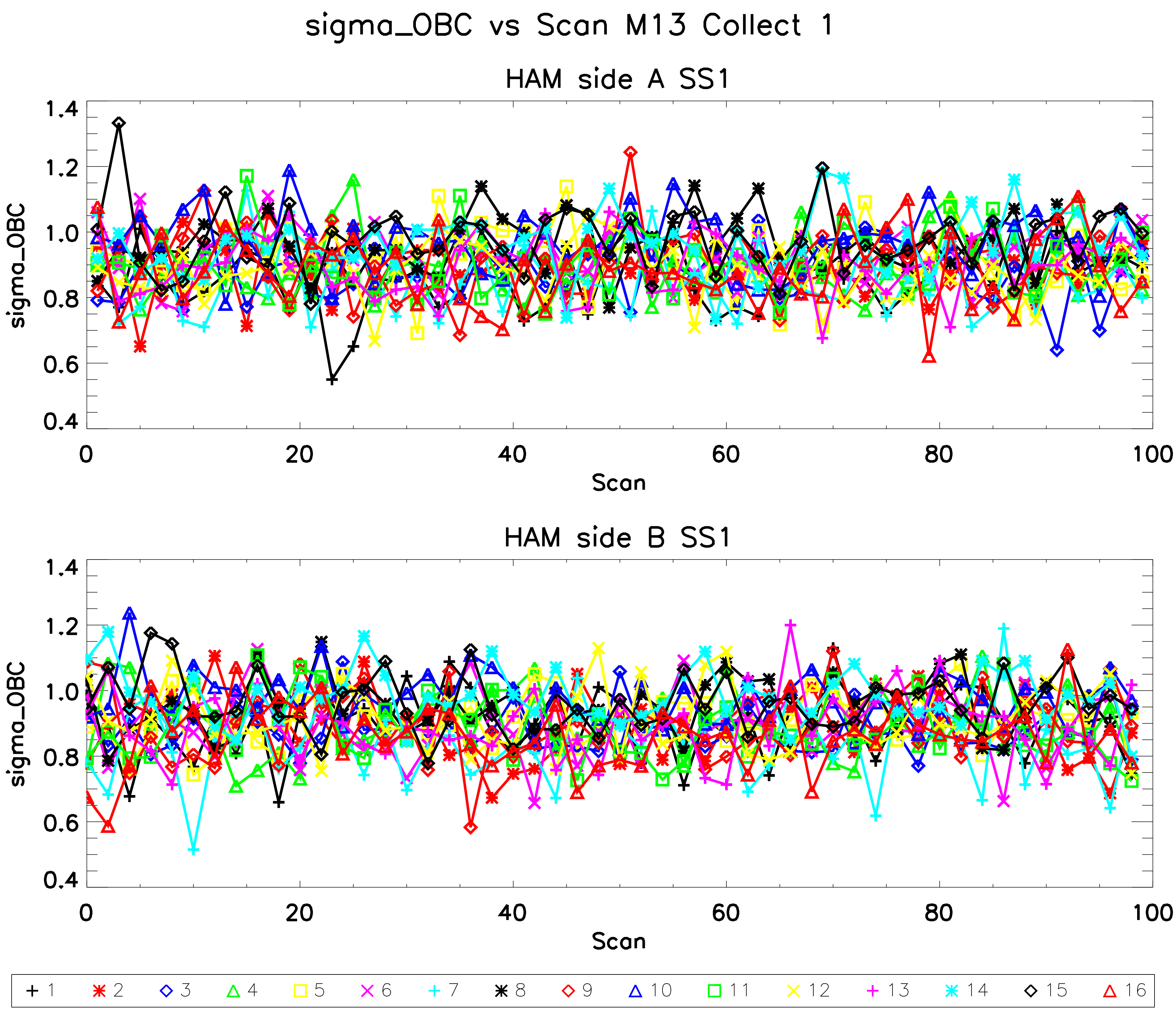
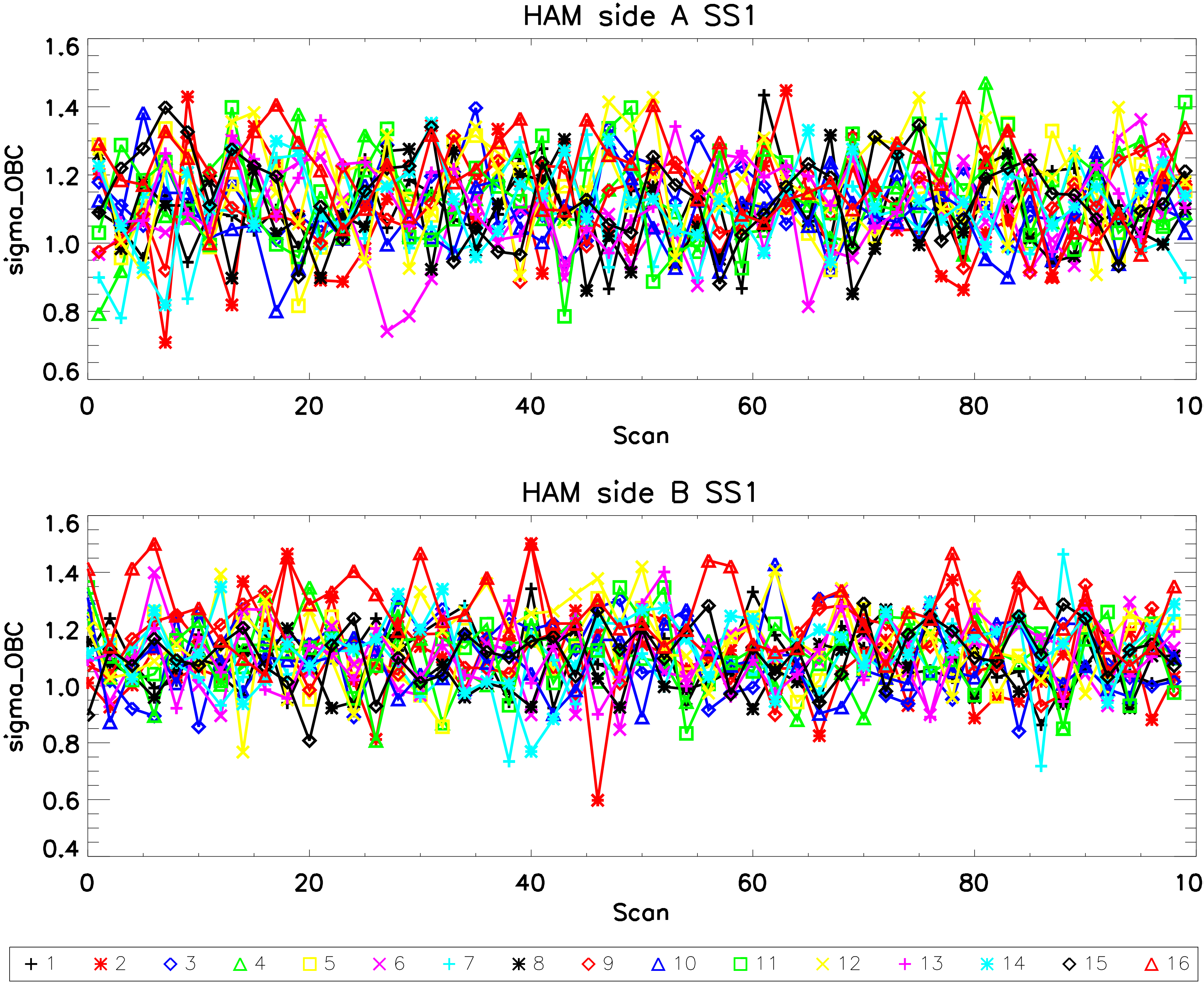
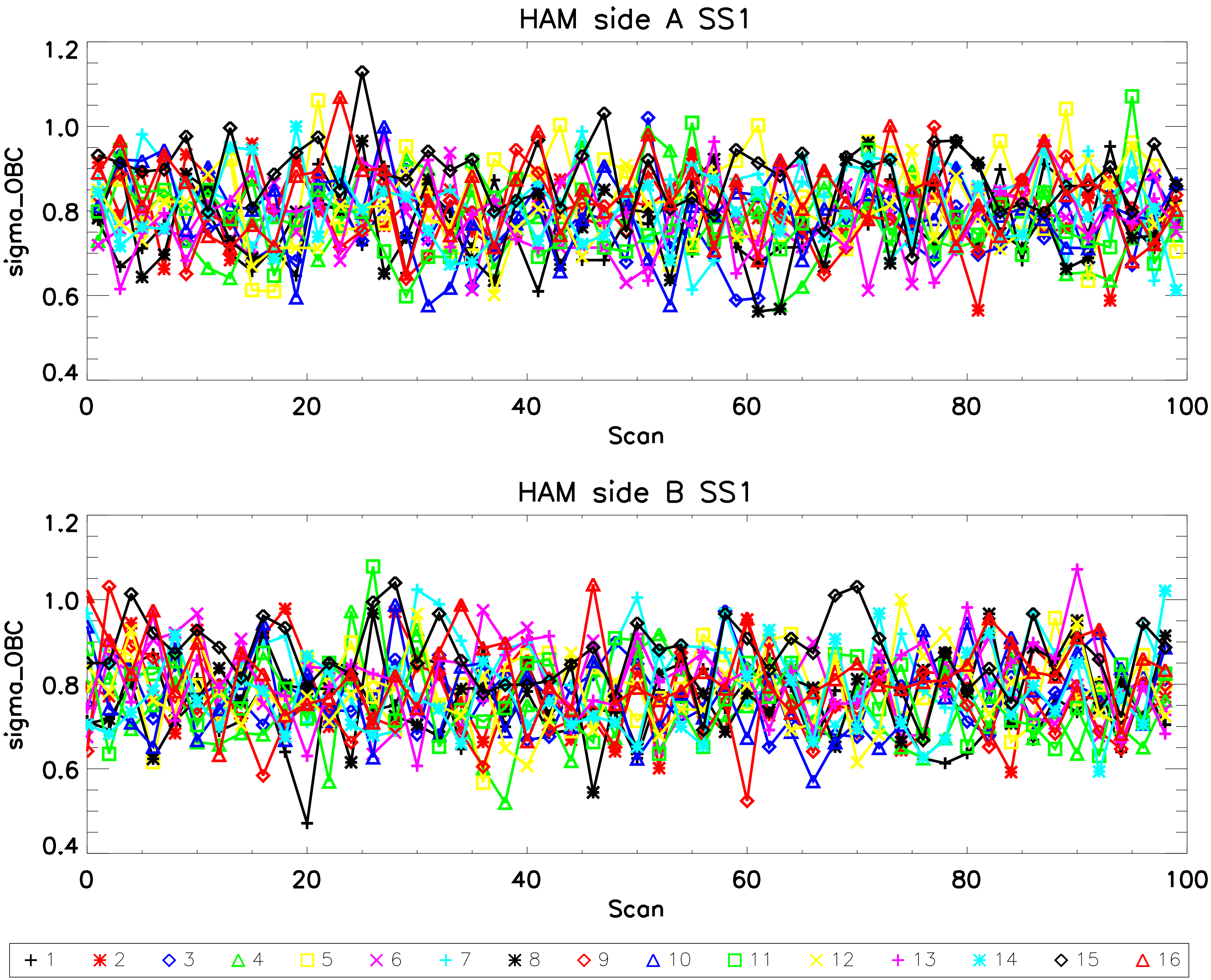
27
28
29
30
31
32

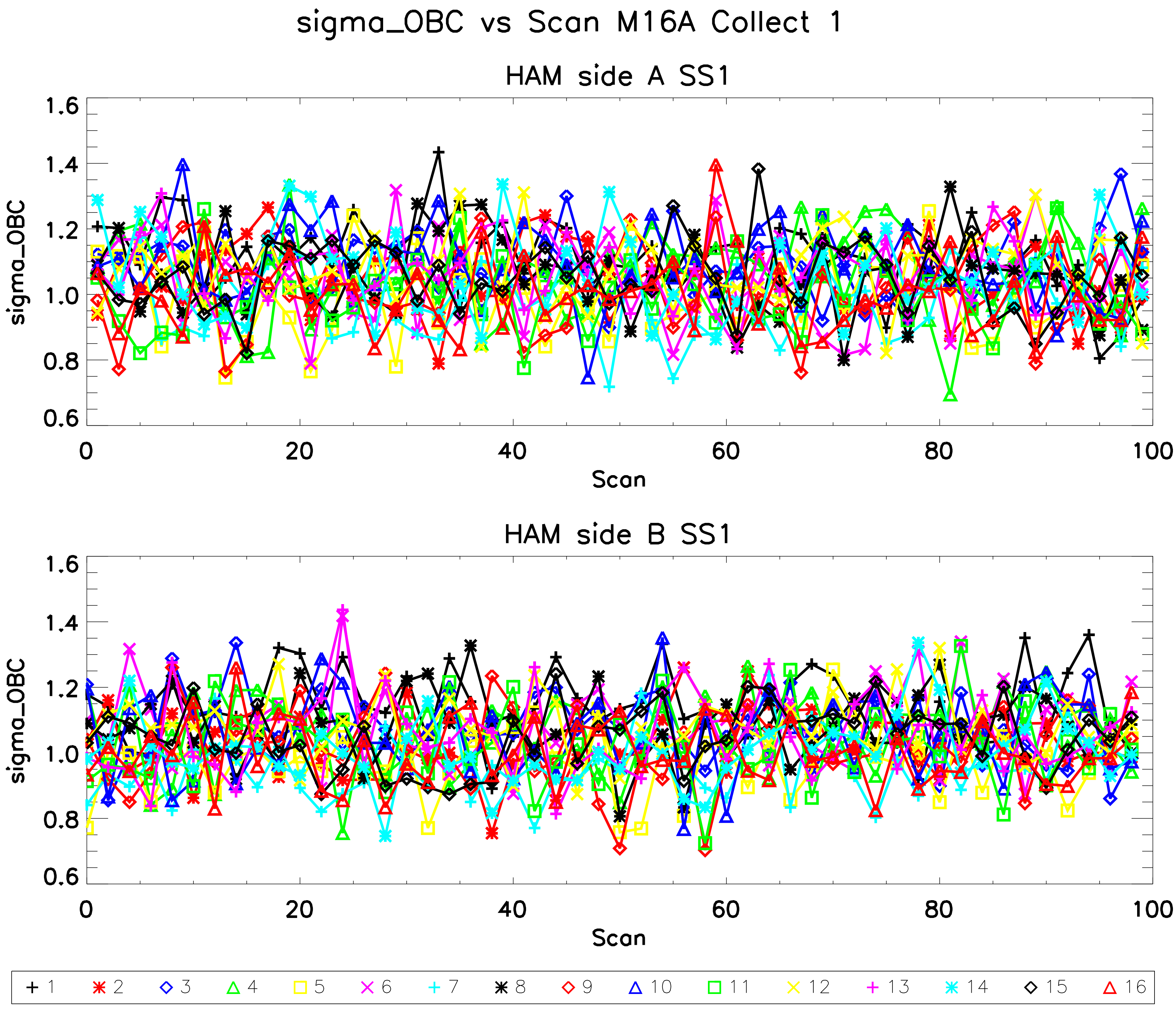

sigma_OBC vs Scan M12 Collect 1
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M13 Collect 1
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M14 Collect 1

sigma_OBC vs Scan M15 Collect 1




sigma_OBC vs Scan M16A Collect 1
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
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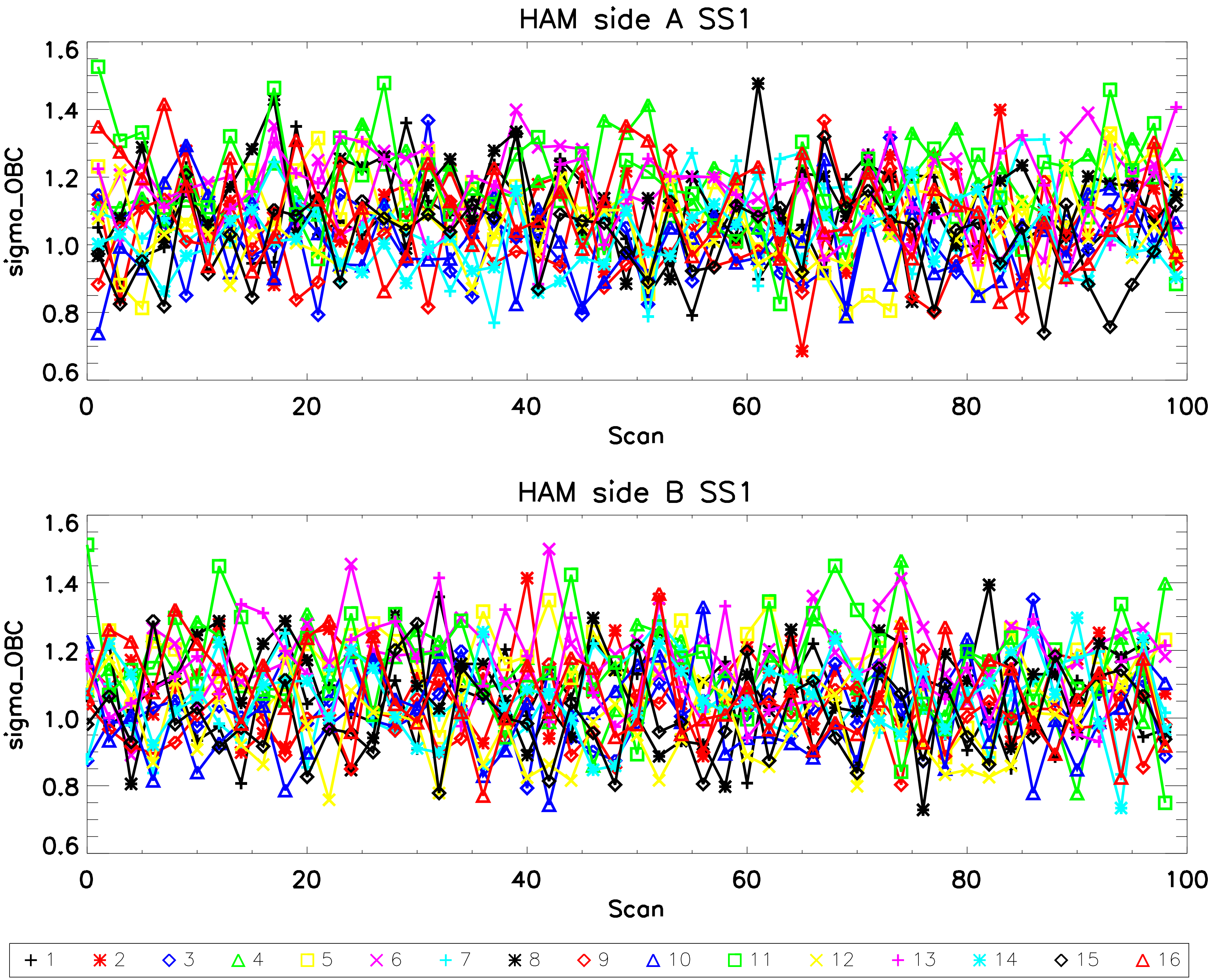
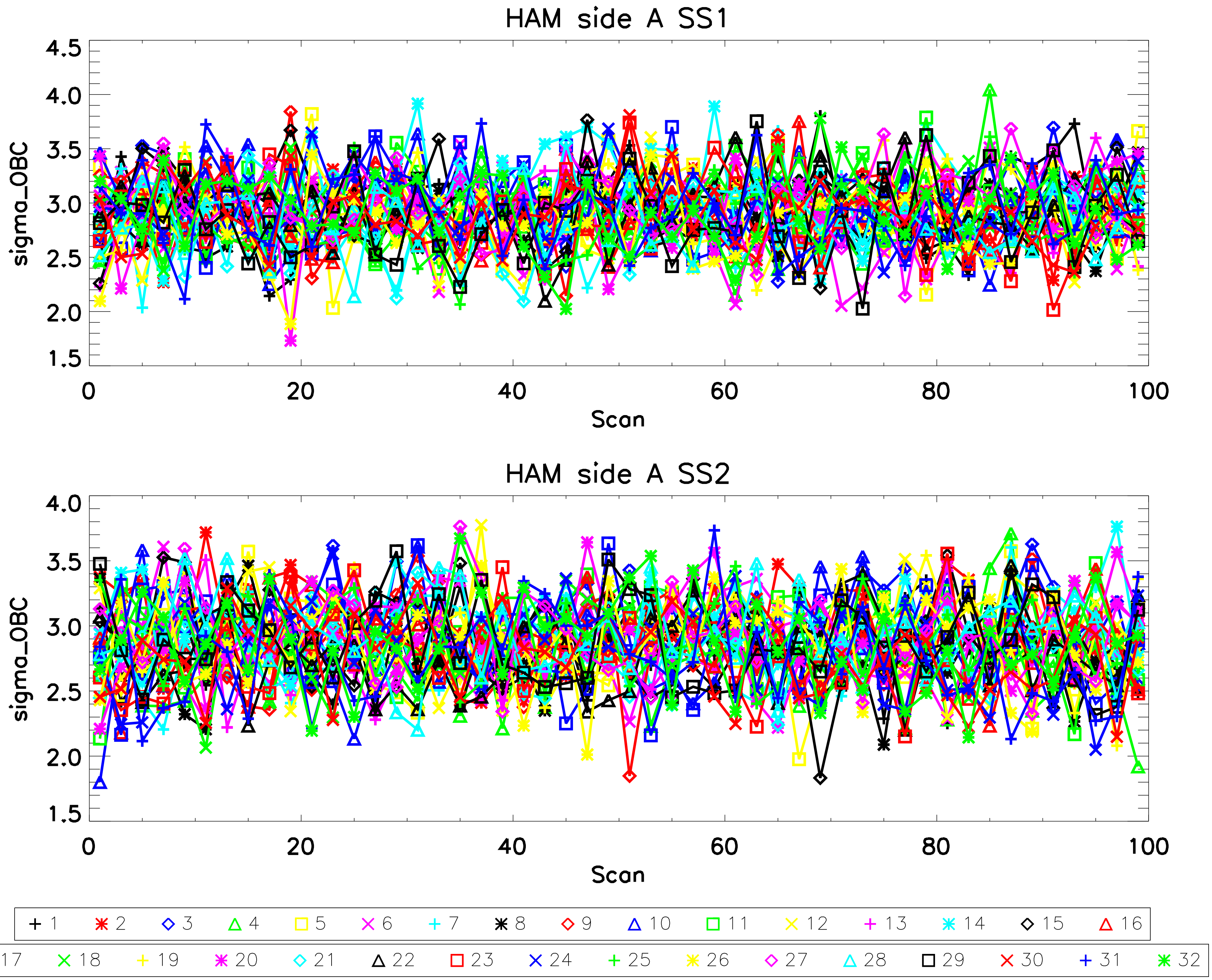
11
12
13
14
15
16

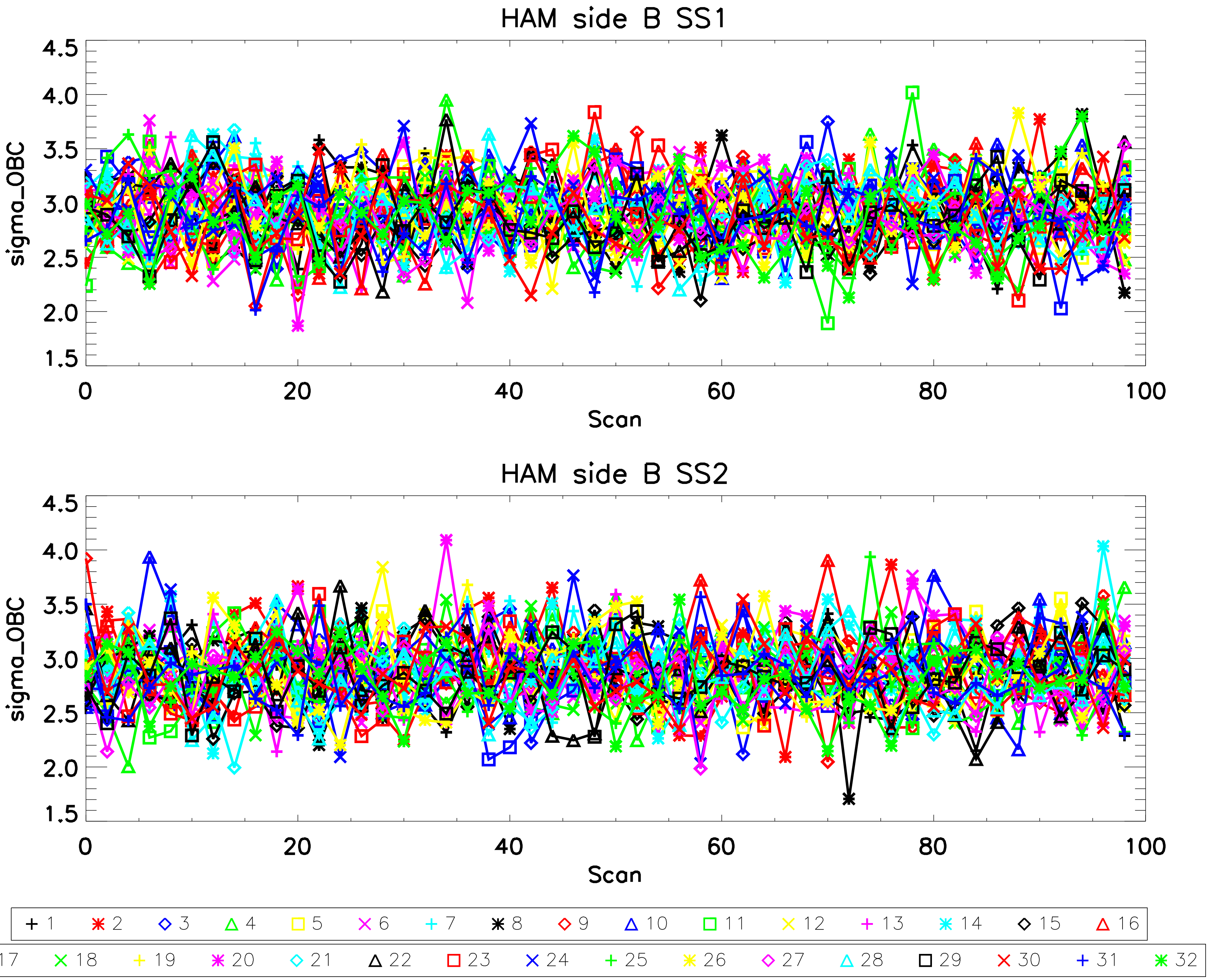


sigma_OBC vs Scan M16B Collect 1

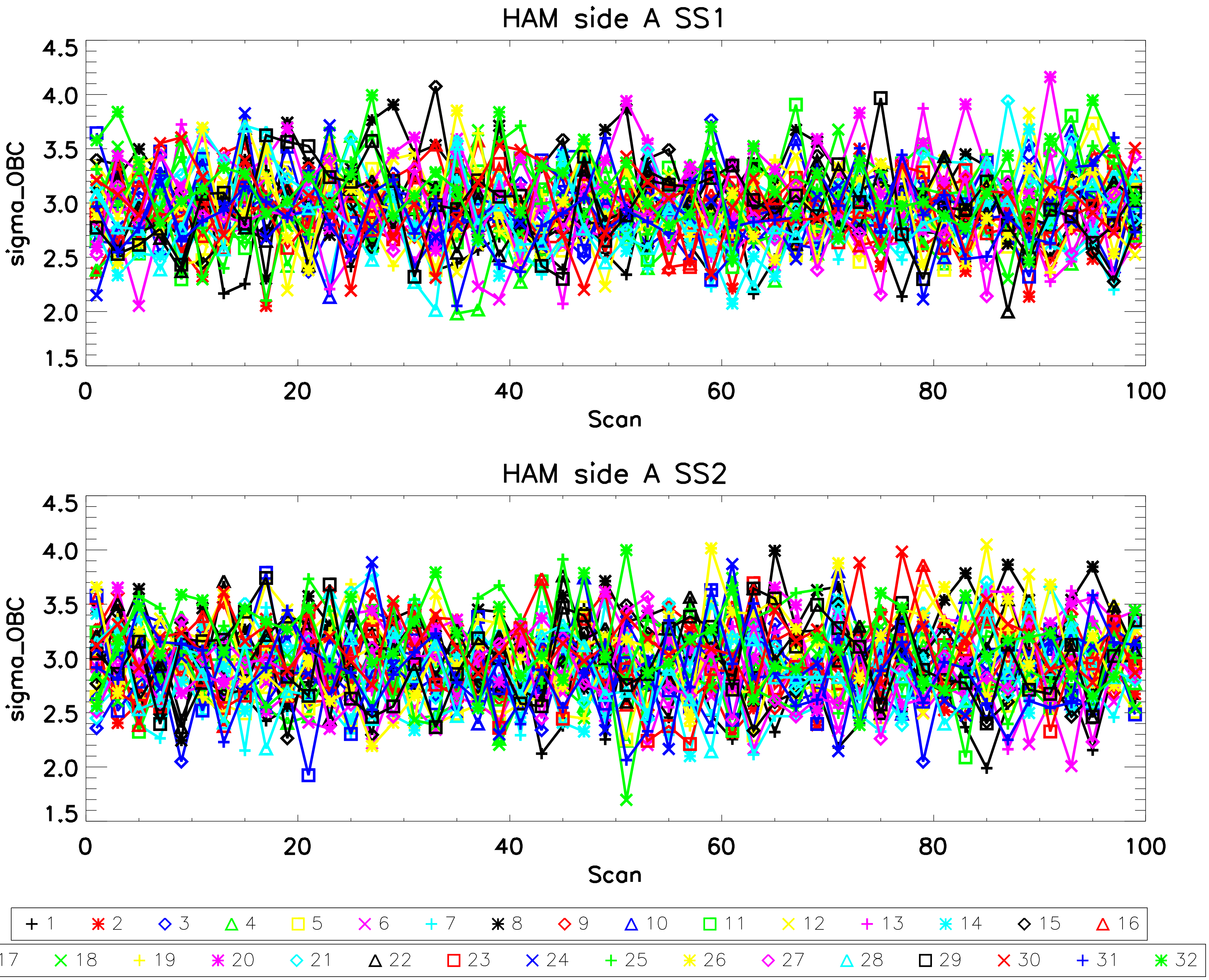
sigma_OBC vs Scan I4 Collect 2

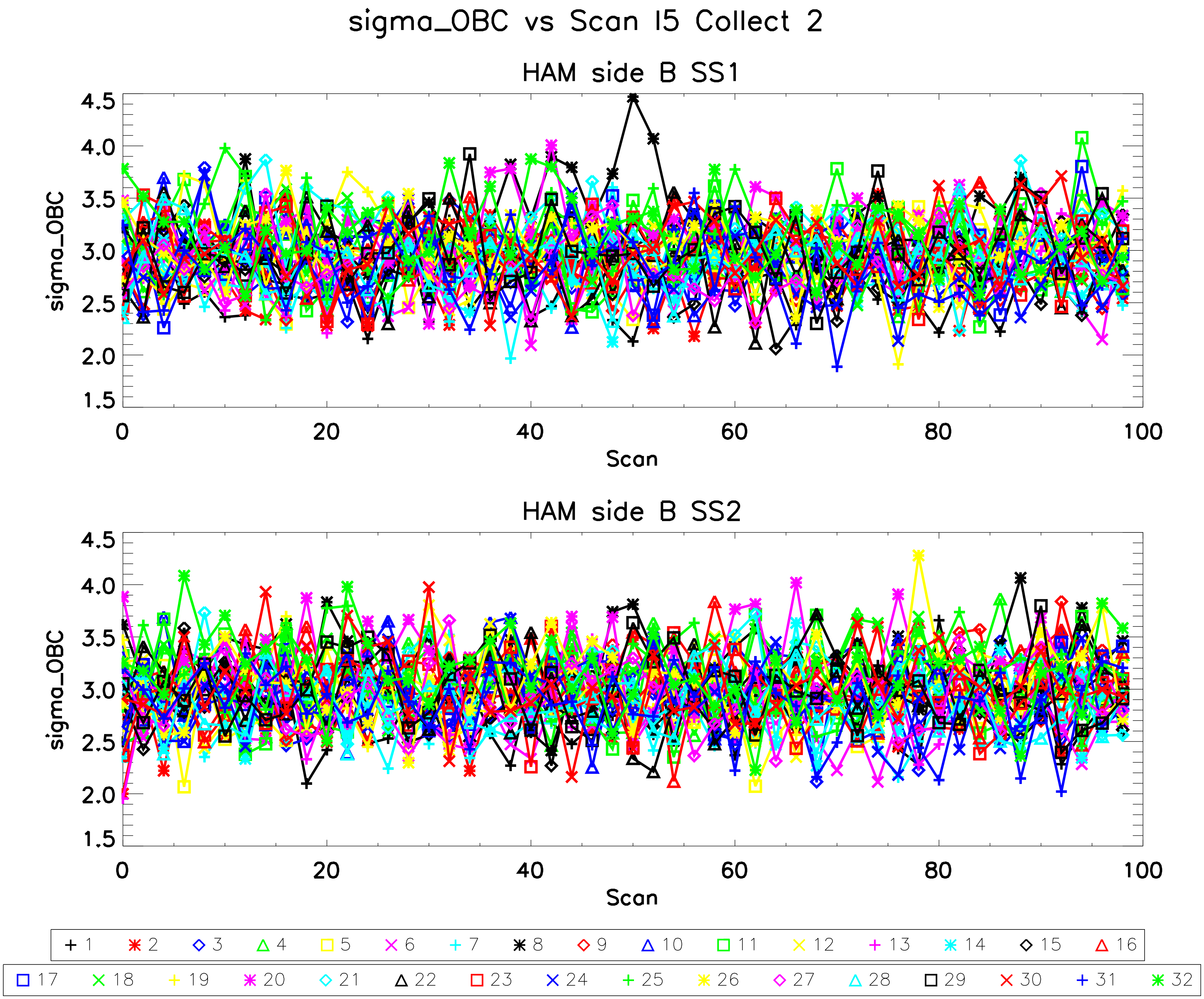


sigma_OBC vs Scan I4 Collect 2



sigma_OBC vs Scan I5 Collect 2




sigma_OBC vs Scan I5 Collect 2
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
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18
19
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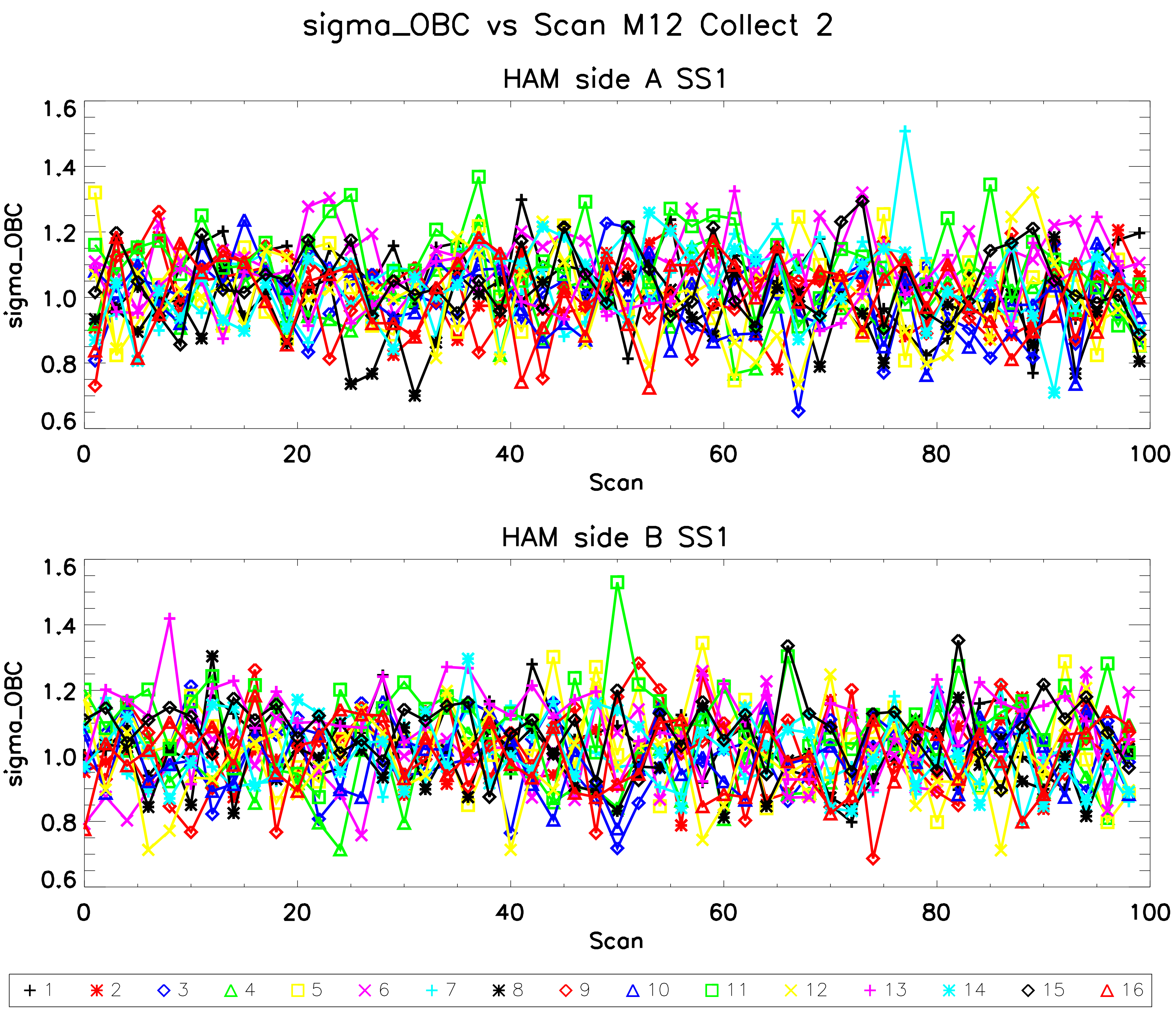
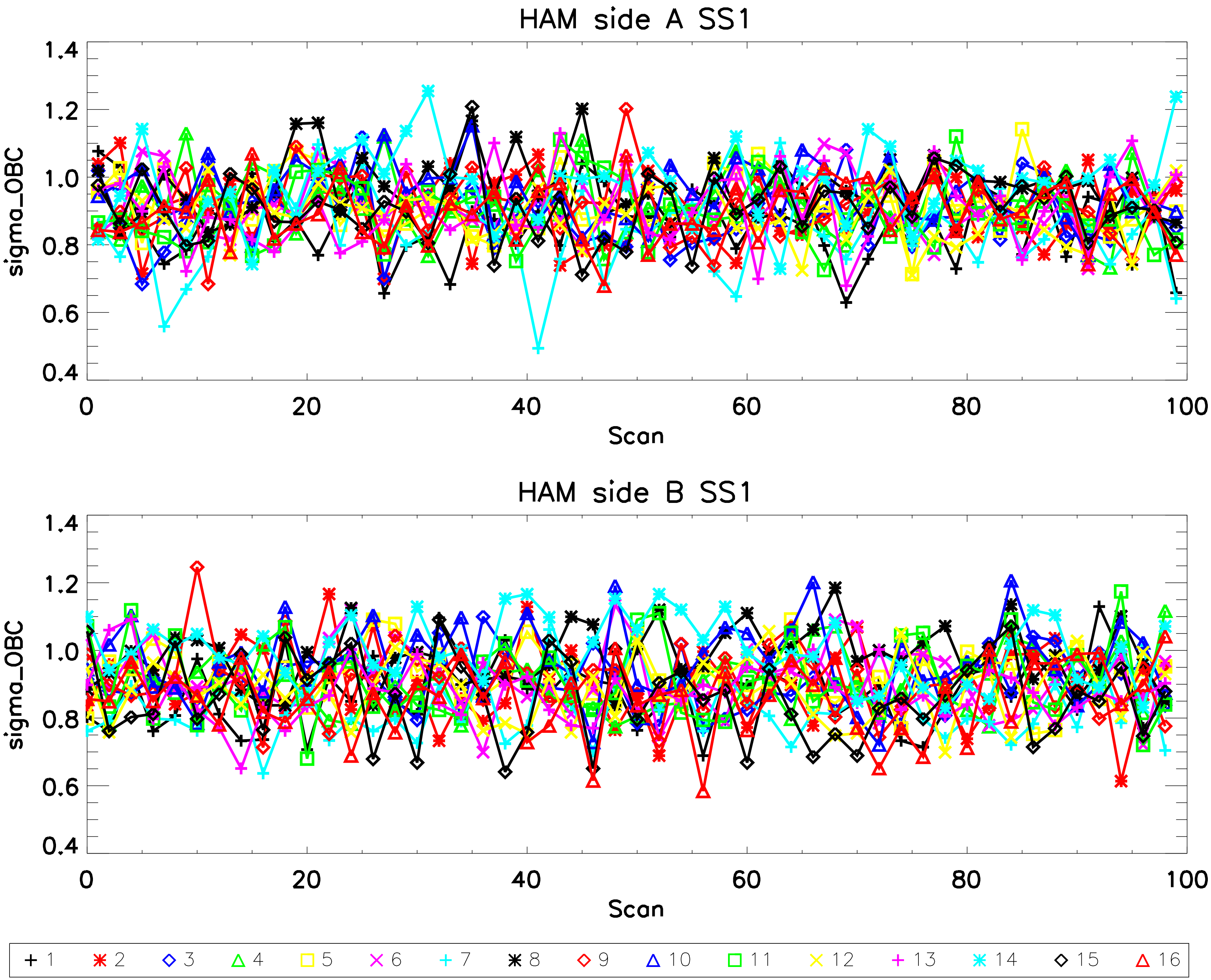
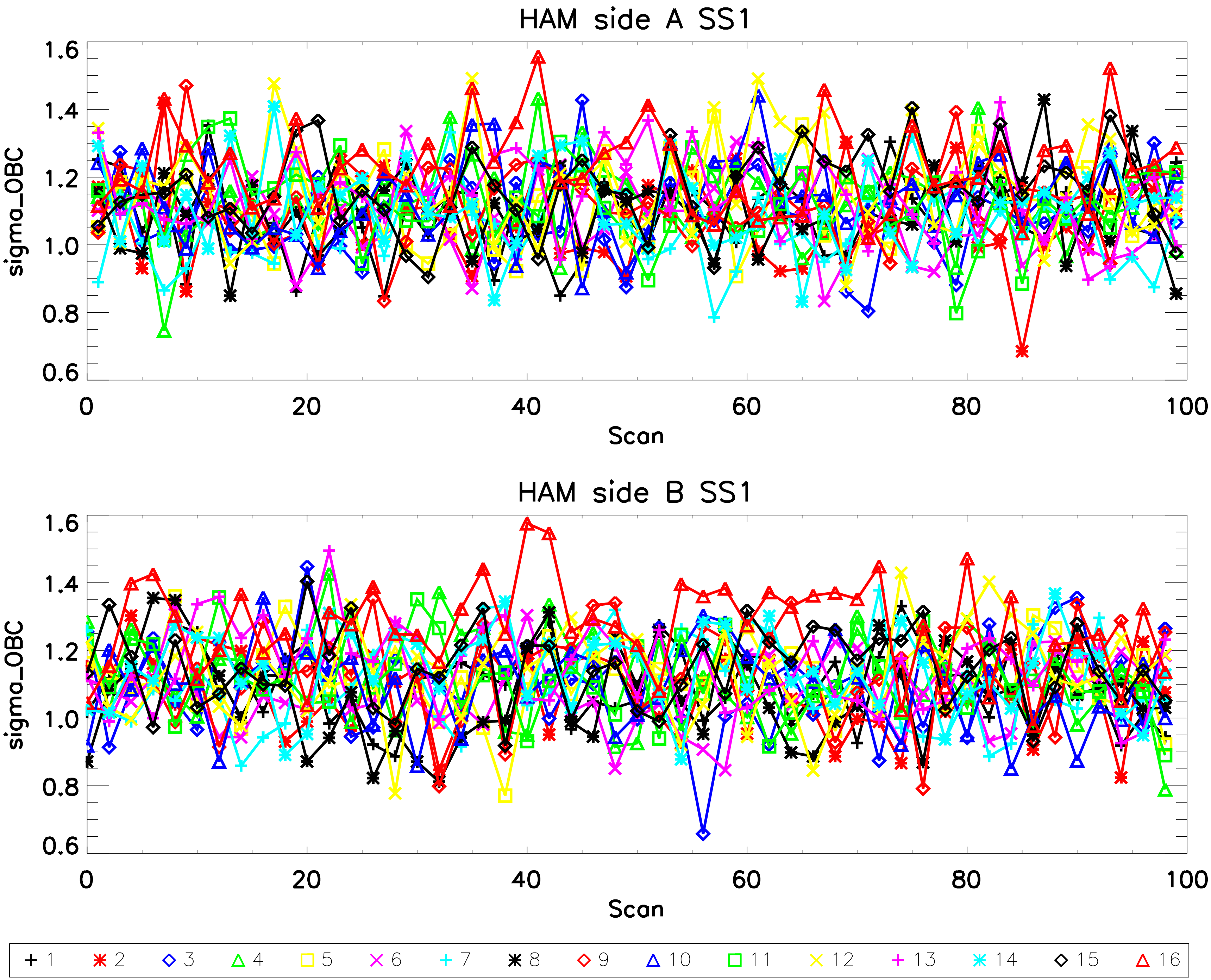
27
28
29
30
31
32

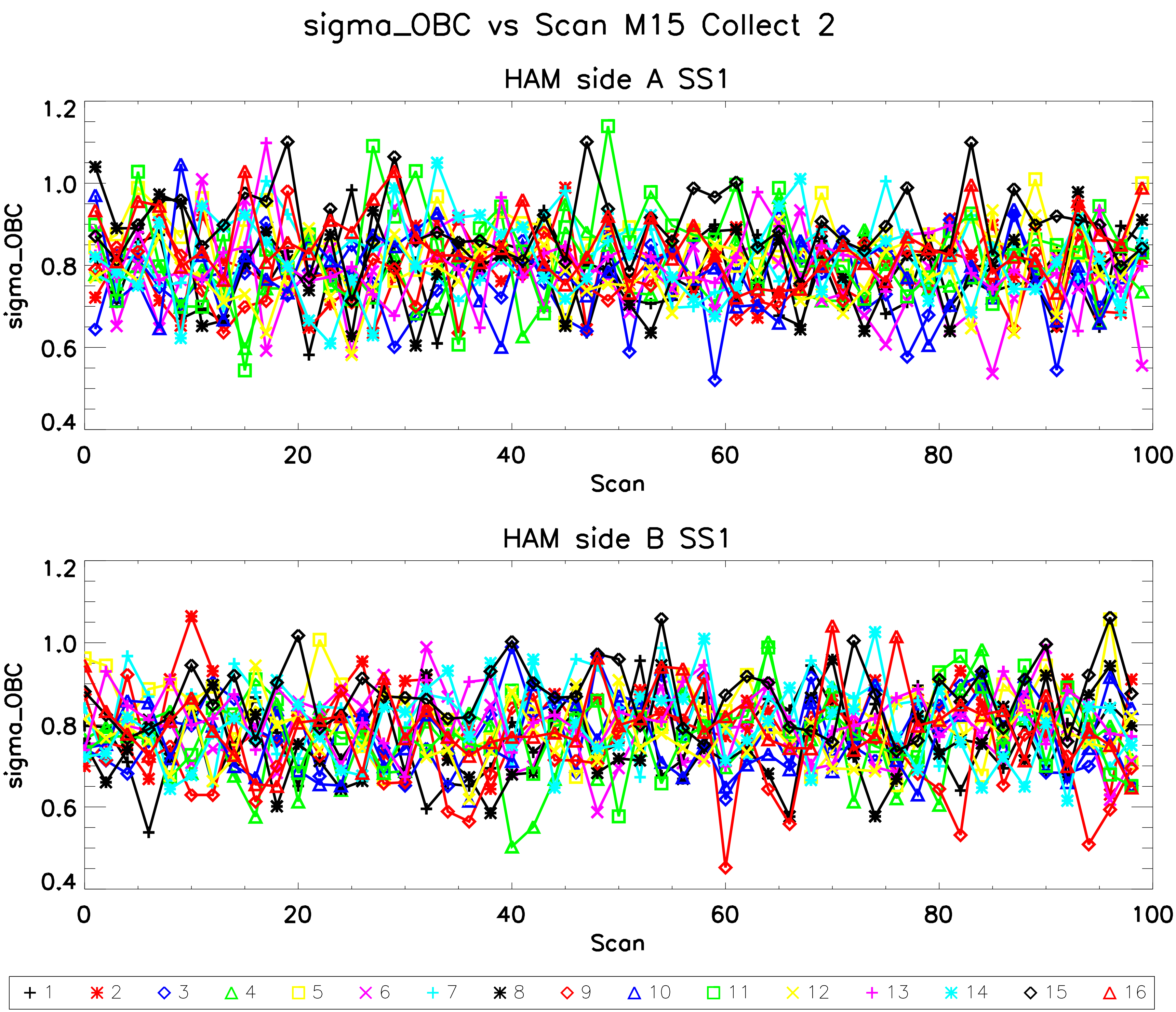

sigma_OBC vs Scan M12 Collect 2
HAM side A SS1
HAM side B SS1
sigma_OBC
Scan
0.6
0.8
1.0
1.2
1.4
1.6
0
20
40
60
80
100
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

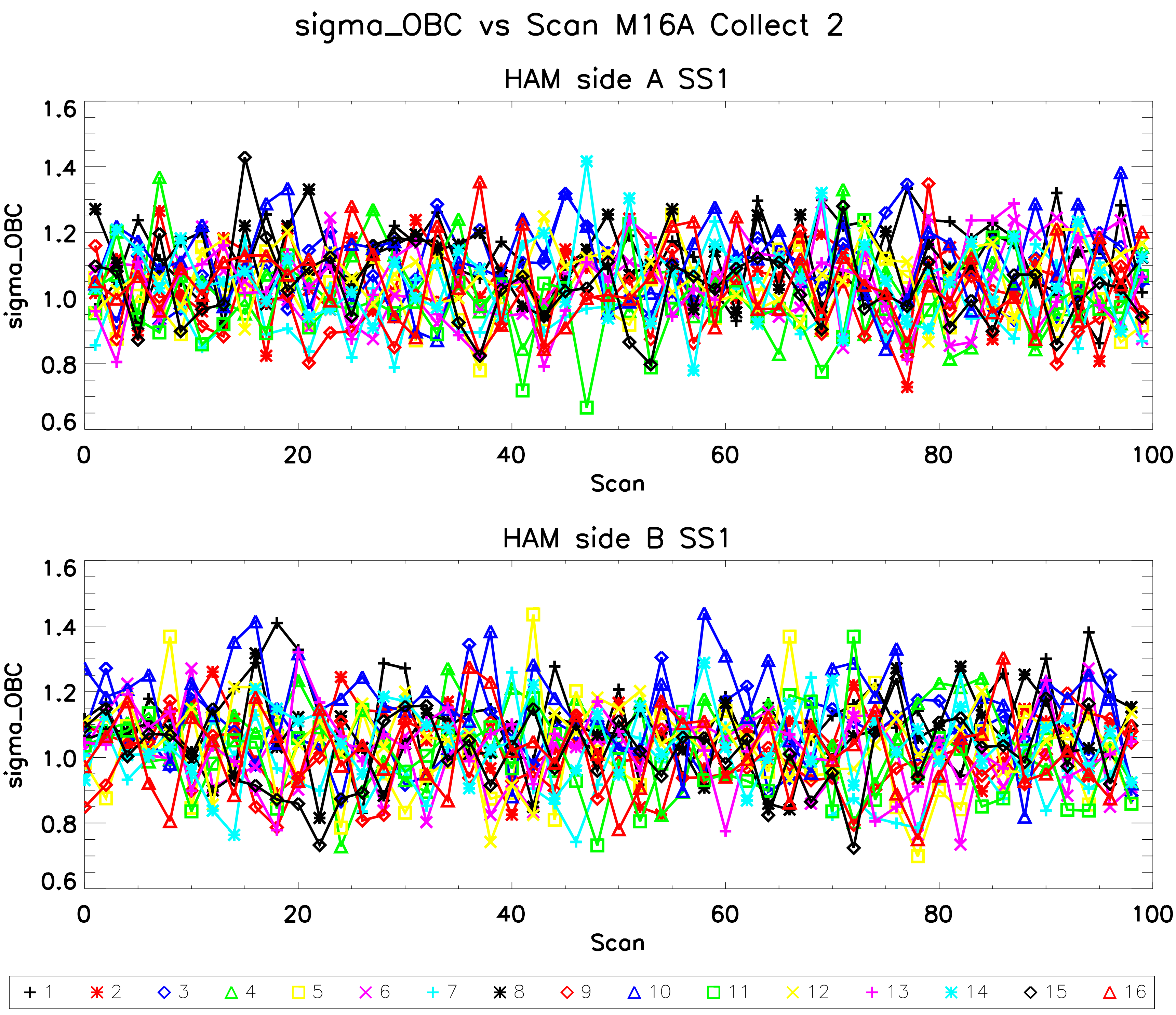
sigma_OBC vs Scan M13 Collect 2

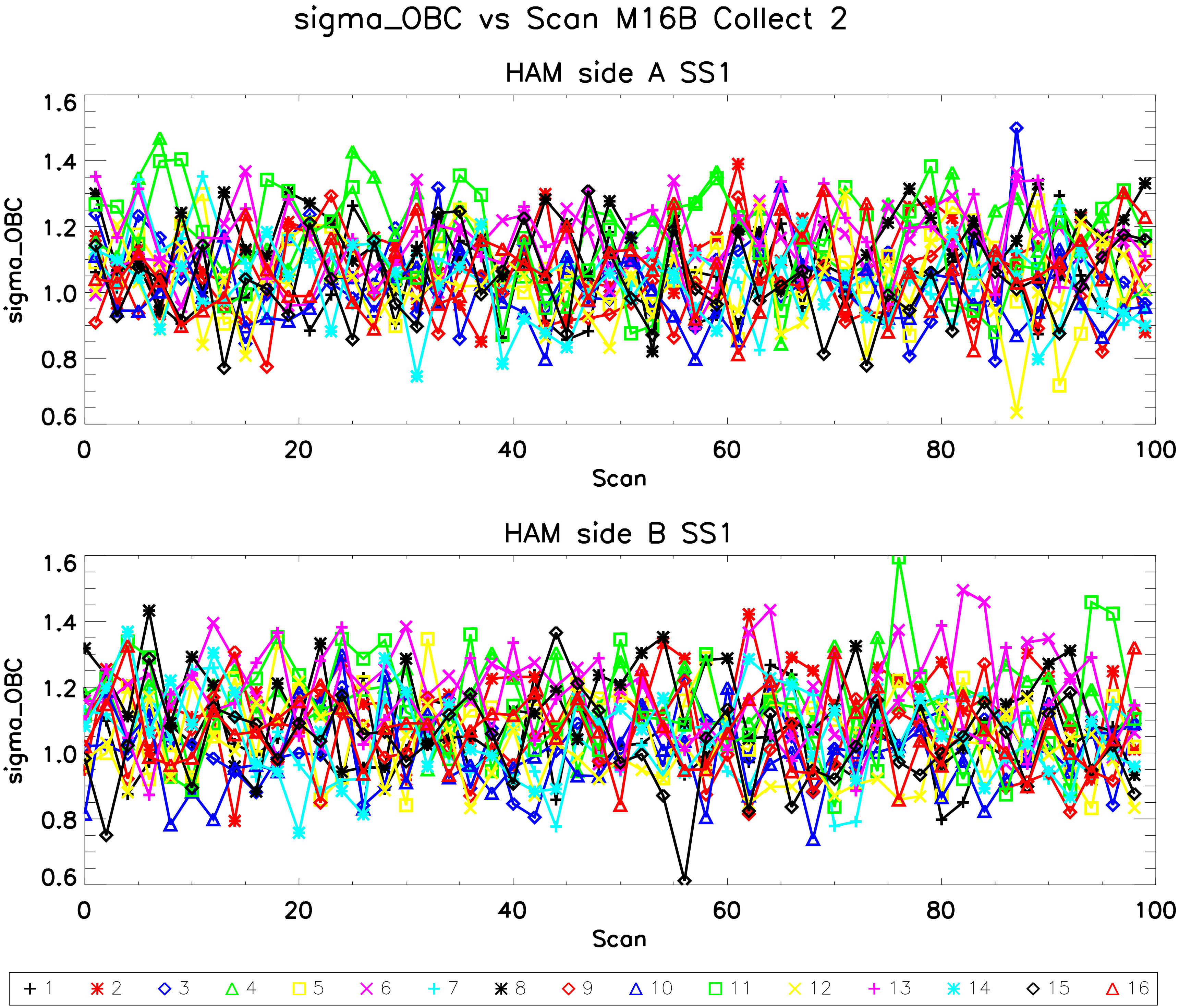


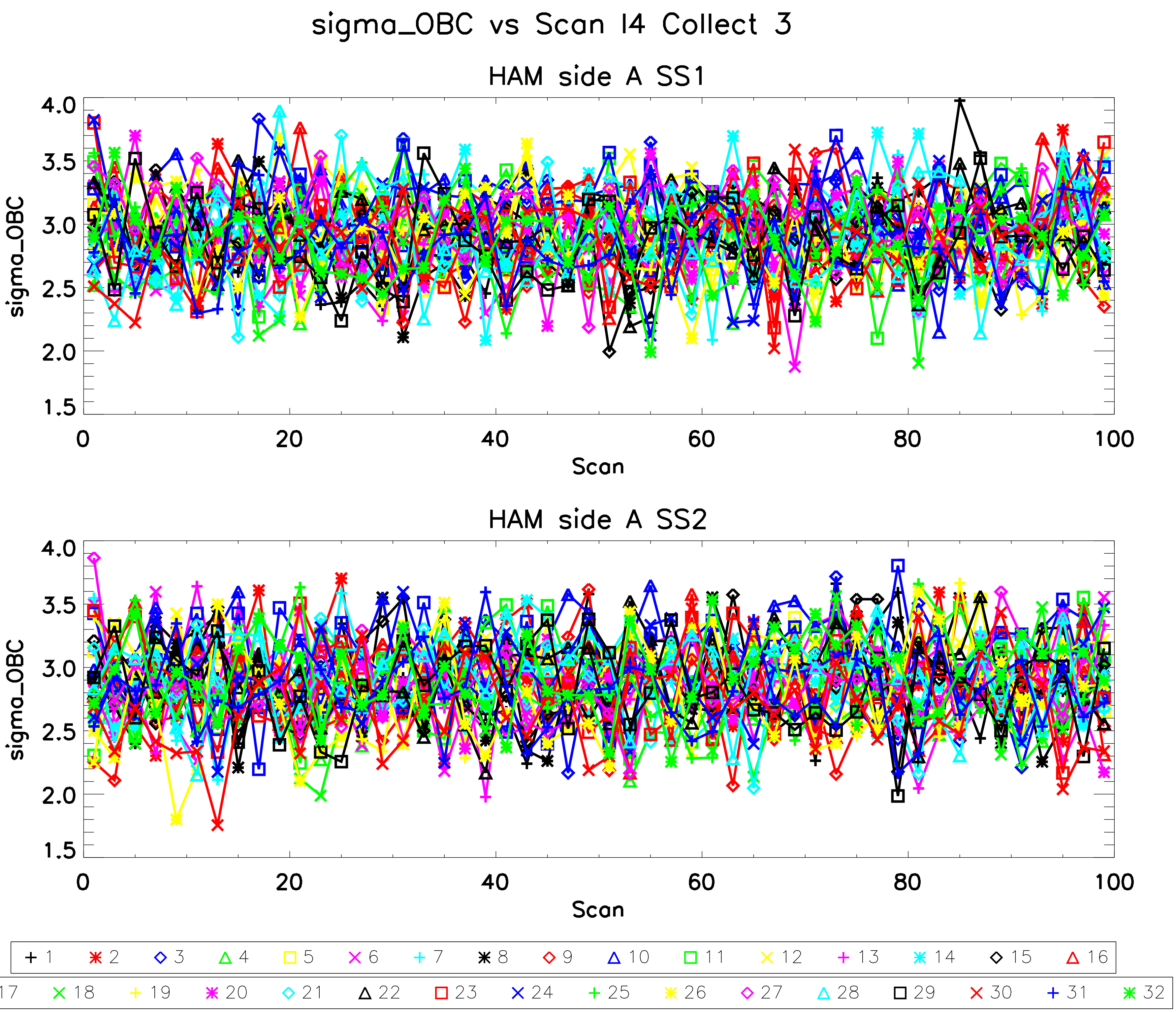
sigma_OBC vs Scan M14 Collect 2



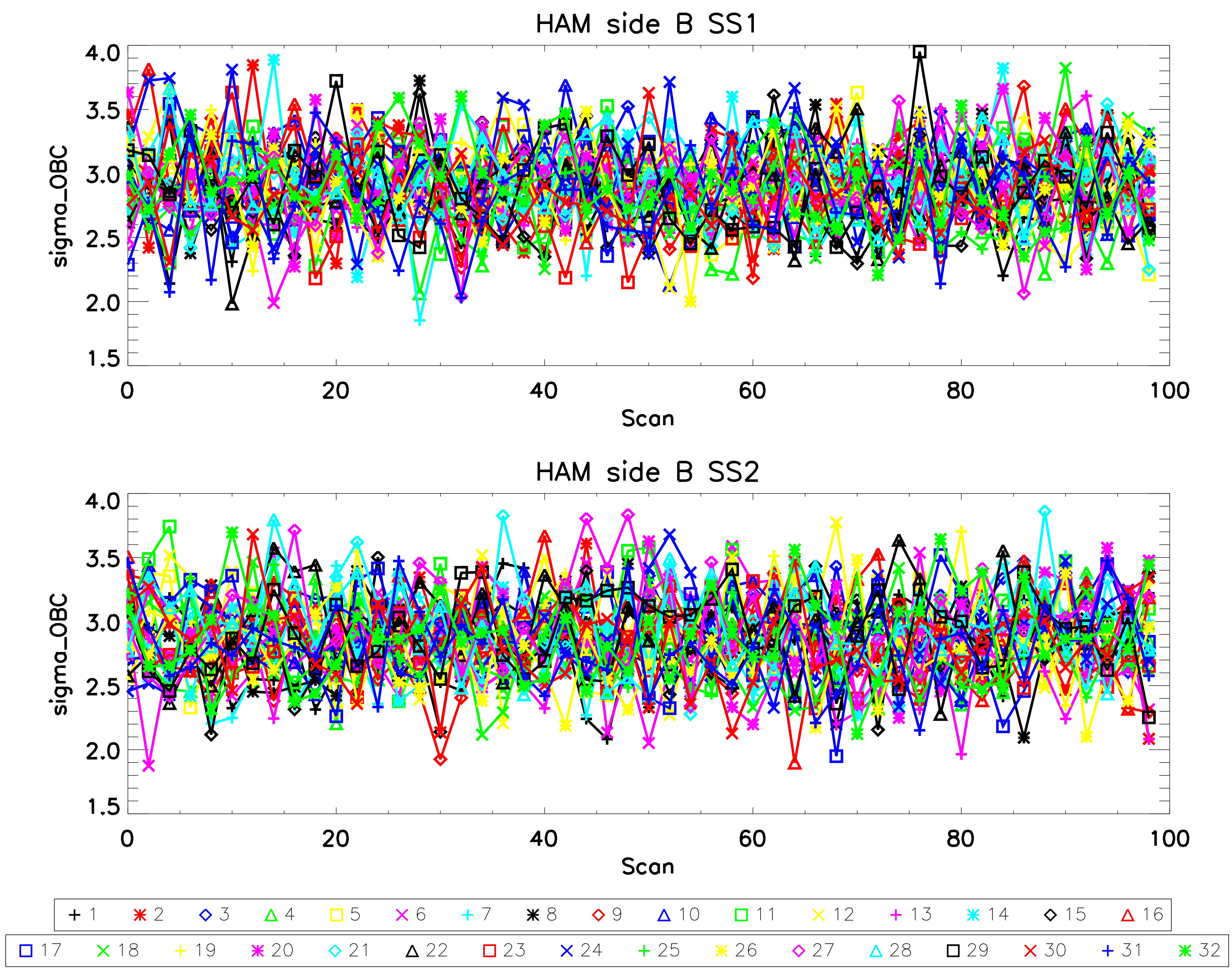

sigma_OBC vs Scan M15 Collect 2
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

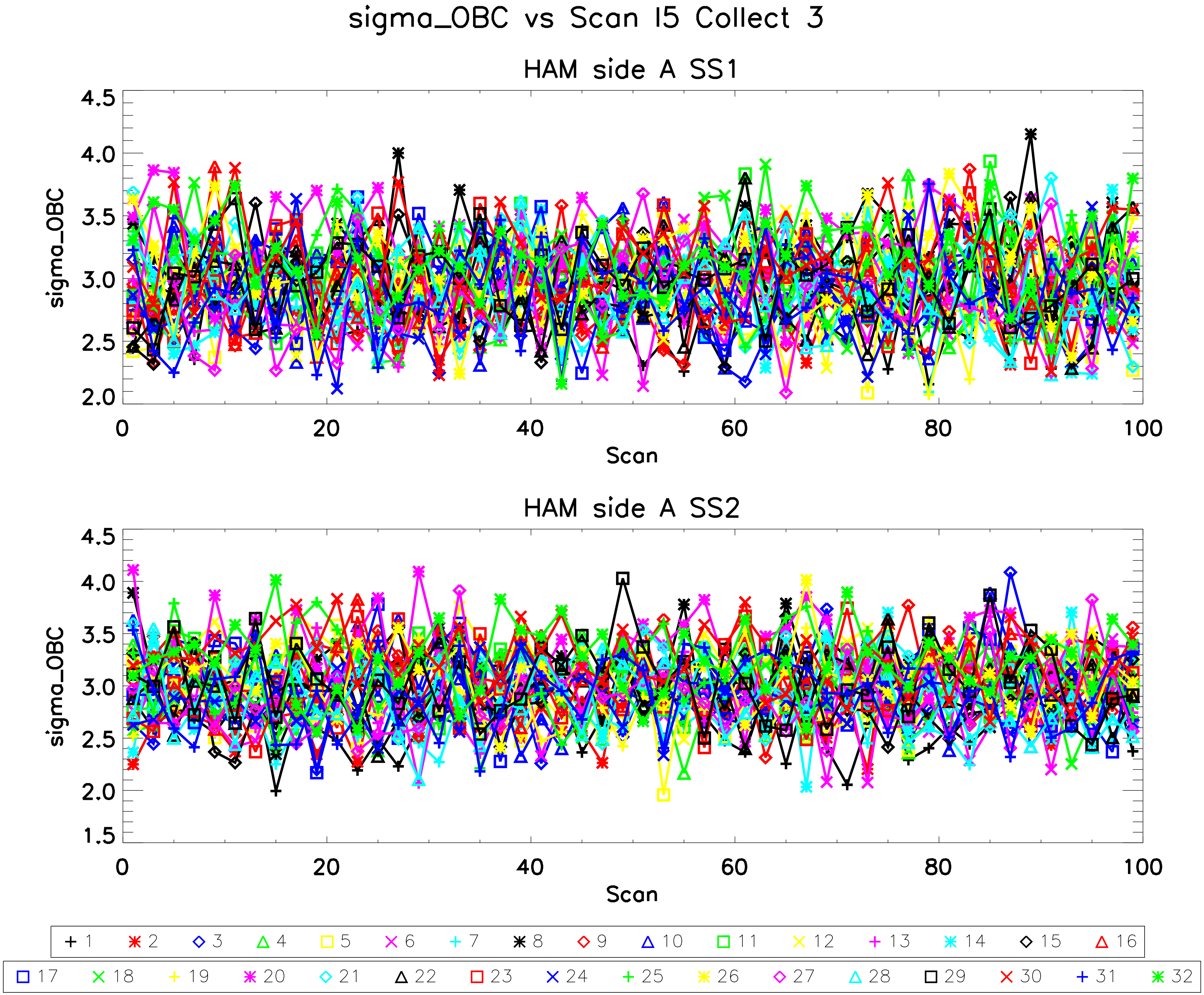

sigma_OBC vs Scan M16A Collect 2
HAM side A SS1
sigma_OBC
0.6
0.8
1.0
1.2
1.4
1.6
Scan
0
20
40
60
80
100
HAM side B SS1
sigma_OBC
0.6
0.8
1.0
1.2
1.4
1.6
Scan
0
20
40
60
80
100
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M16B Collect 2
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16


sigma_OBC vs Scan I4 Collect 3
HAM side A SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

sigma_OBC vs Scan I4 Collect 3




sigma_OBC vs Scan I5 Collect 3
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
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17
18
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20
21
22
23
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25
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29
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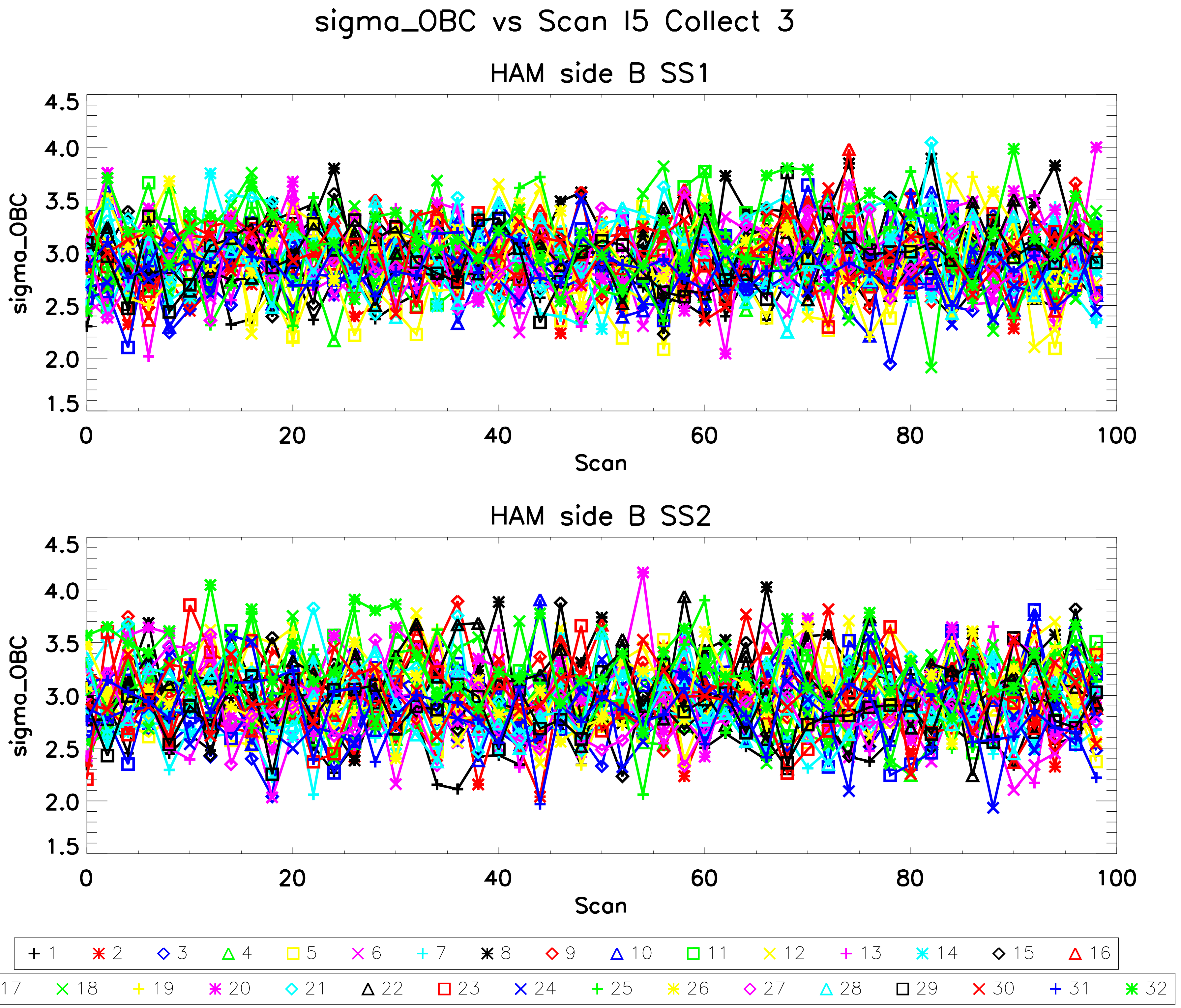
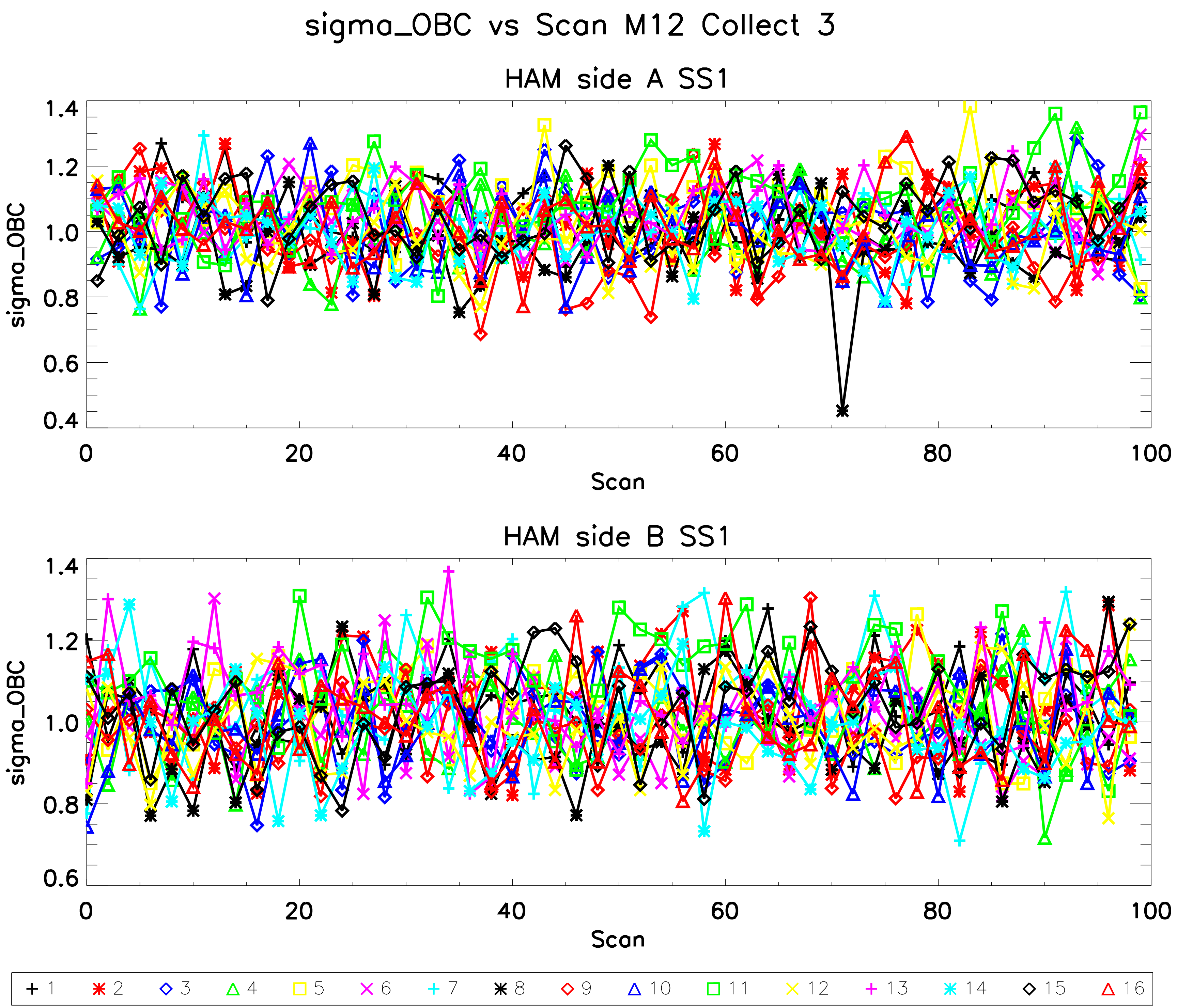
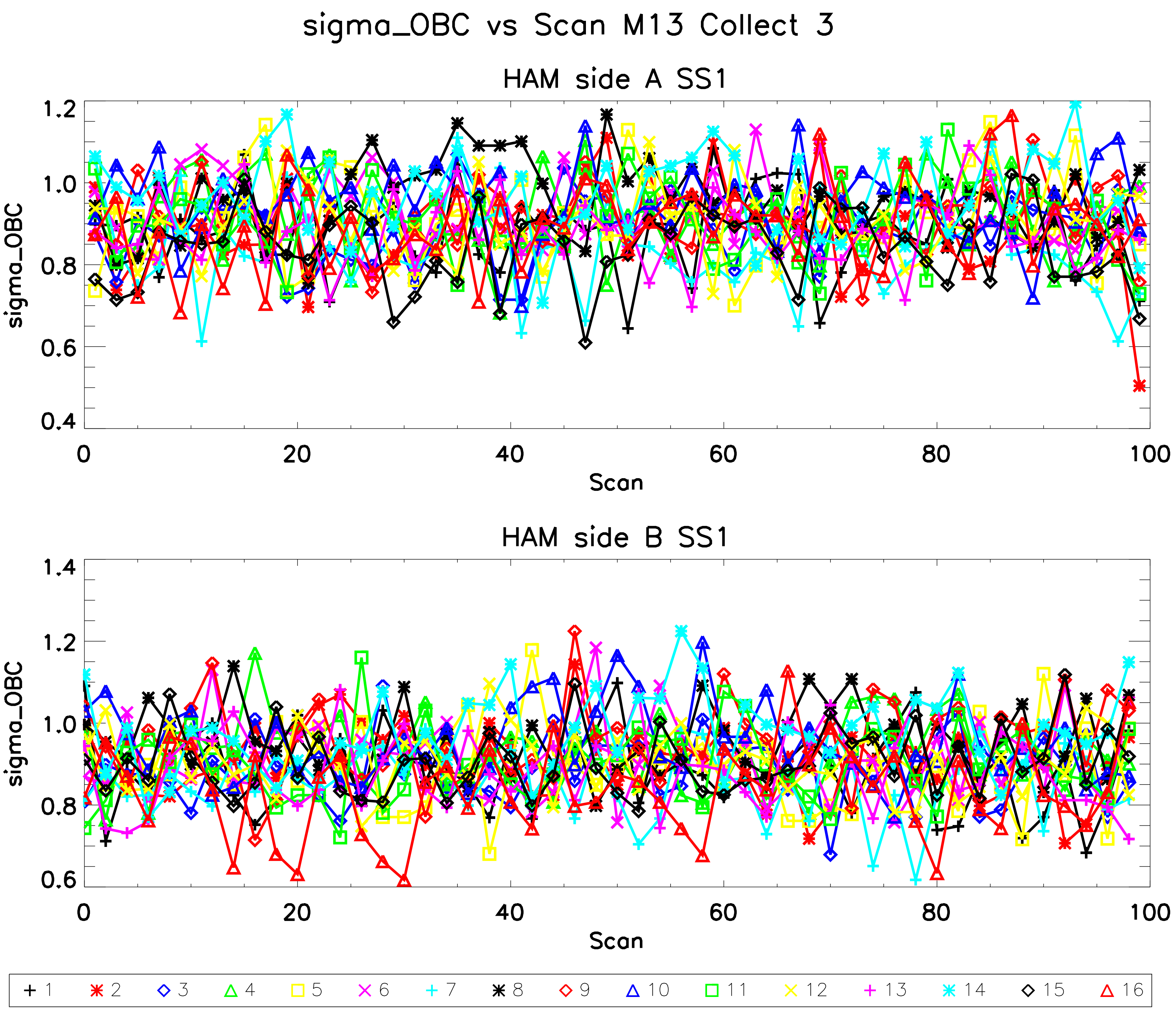
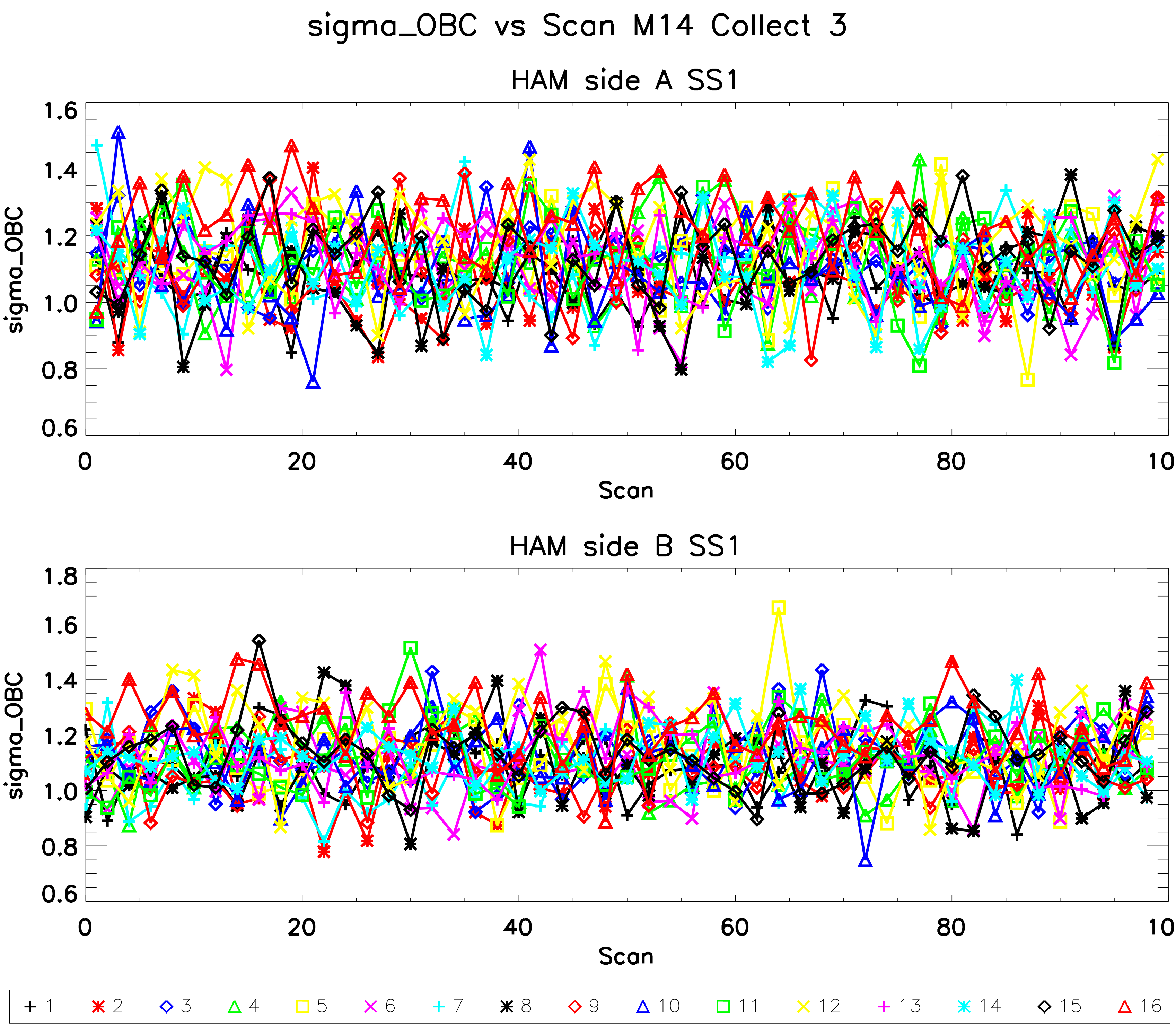
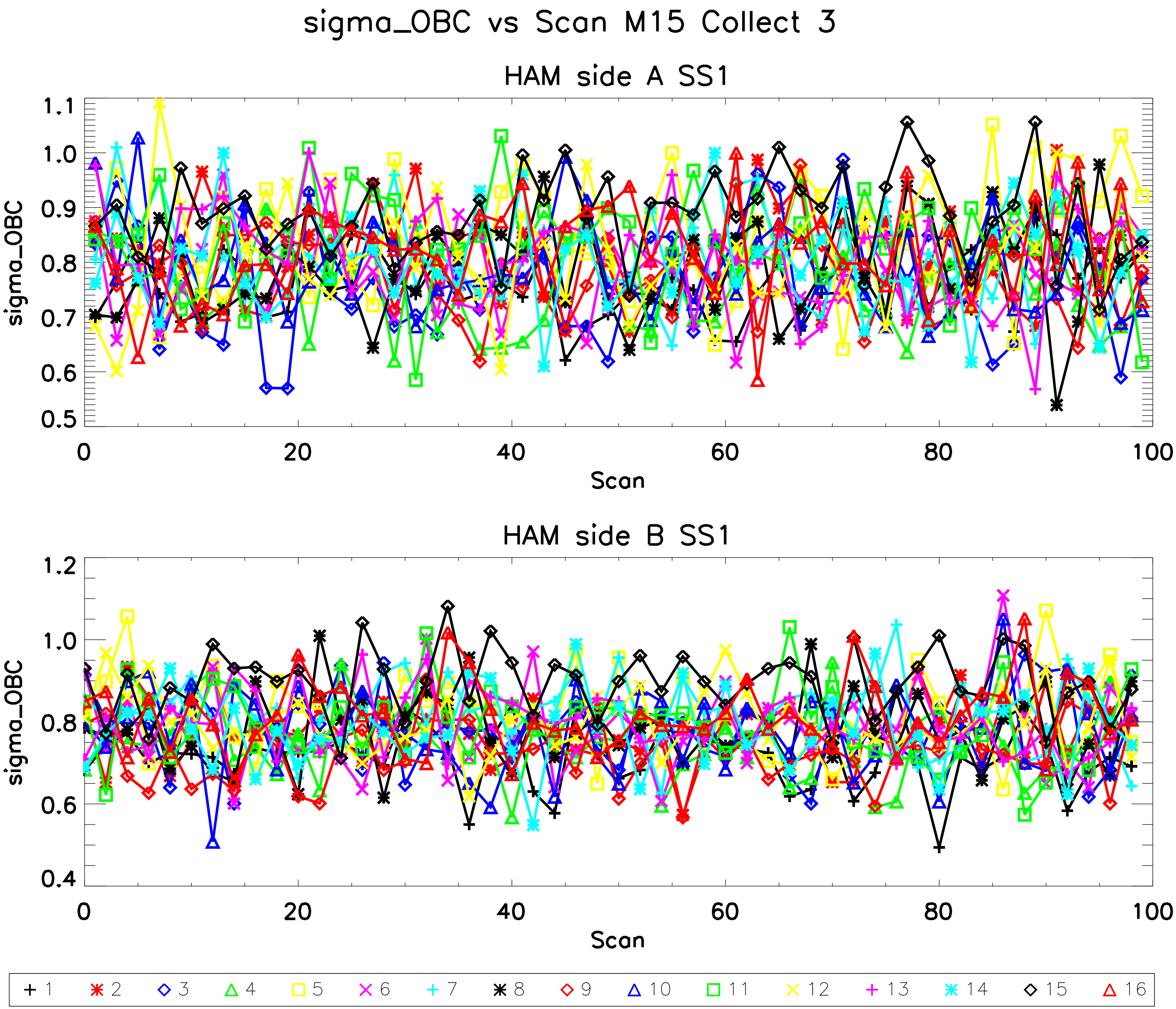
31
32


sigma_OBC vs Scan I5 Collect 3
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✳ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✳ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✳ 32

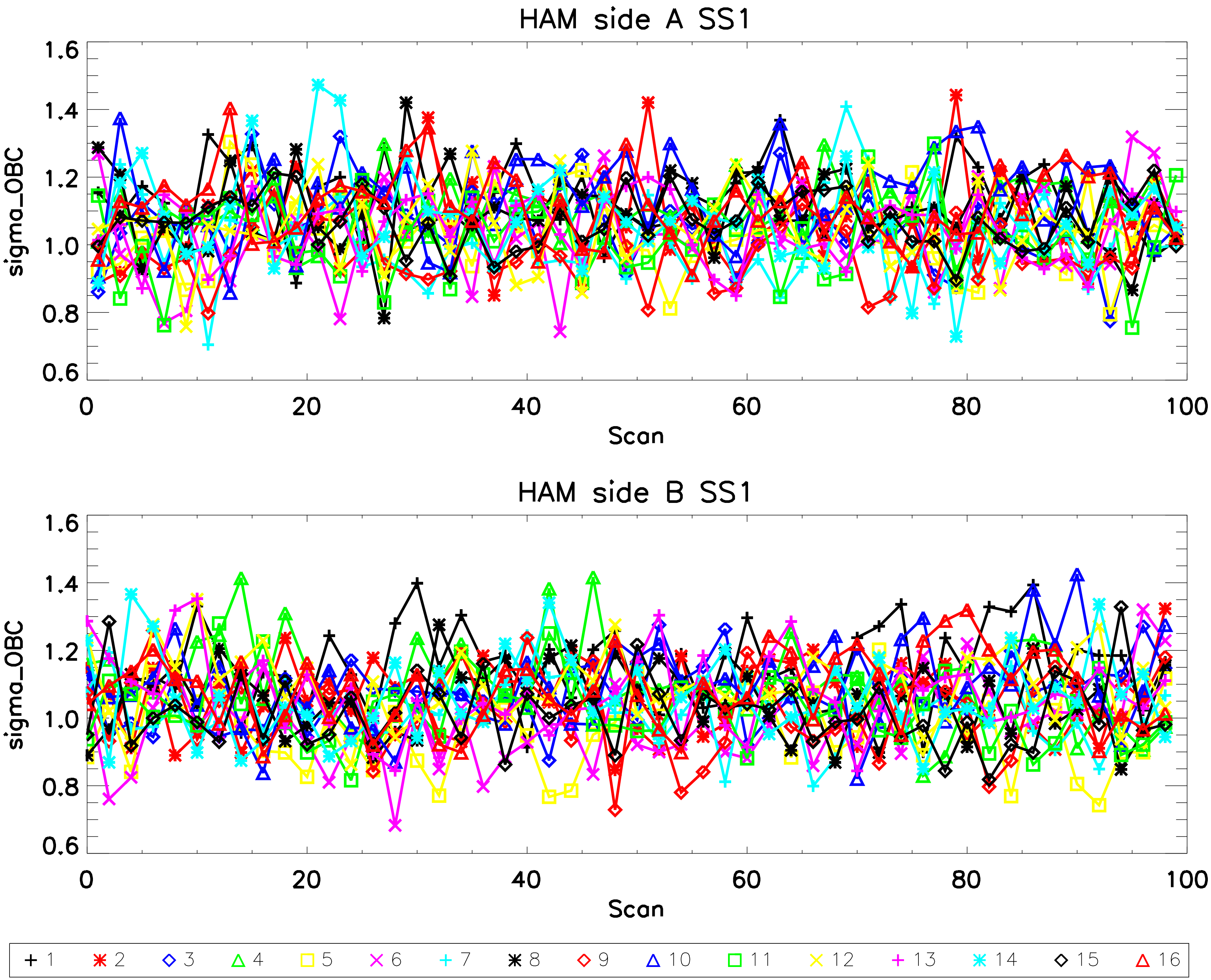

sigma_OBC vs Scan M12 Collect 3
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16


sigma_OBC vs Scan M13 Collect 3
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

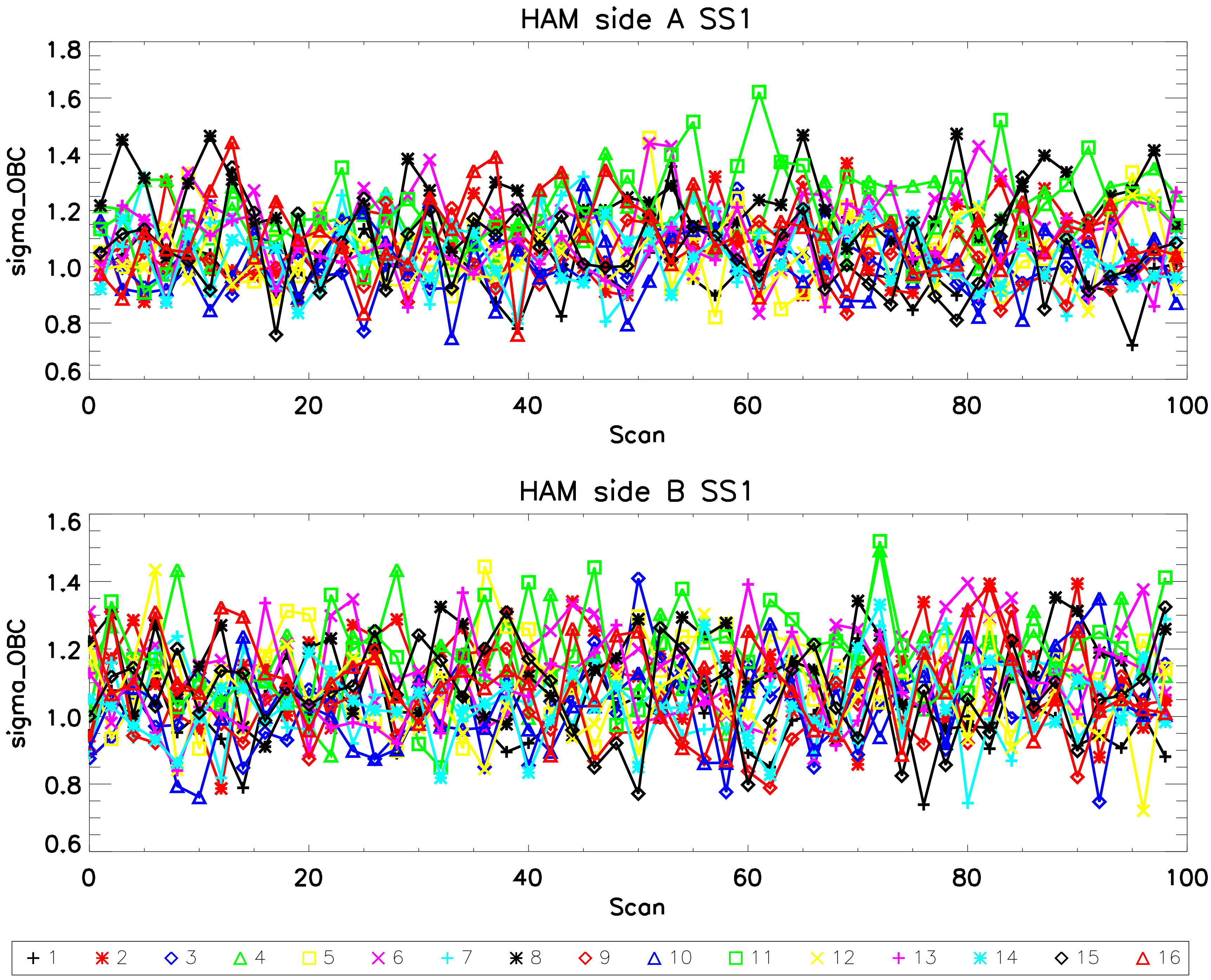

sigma_OBC vs Scan M14 Collect 3
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

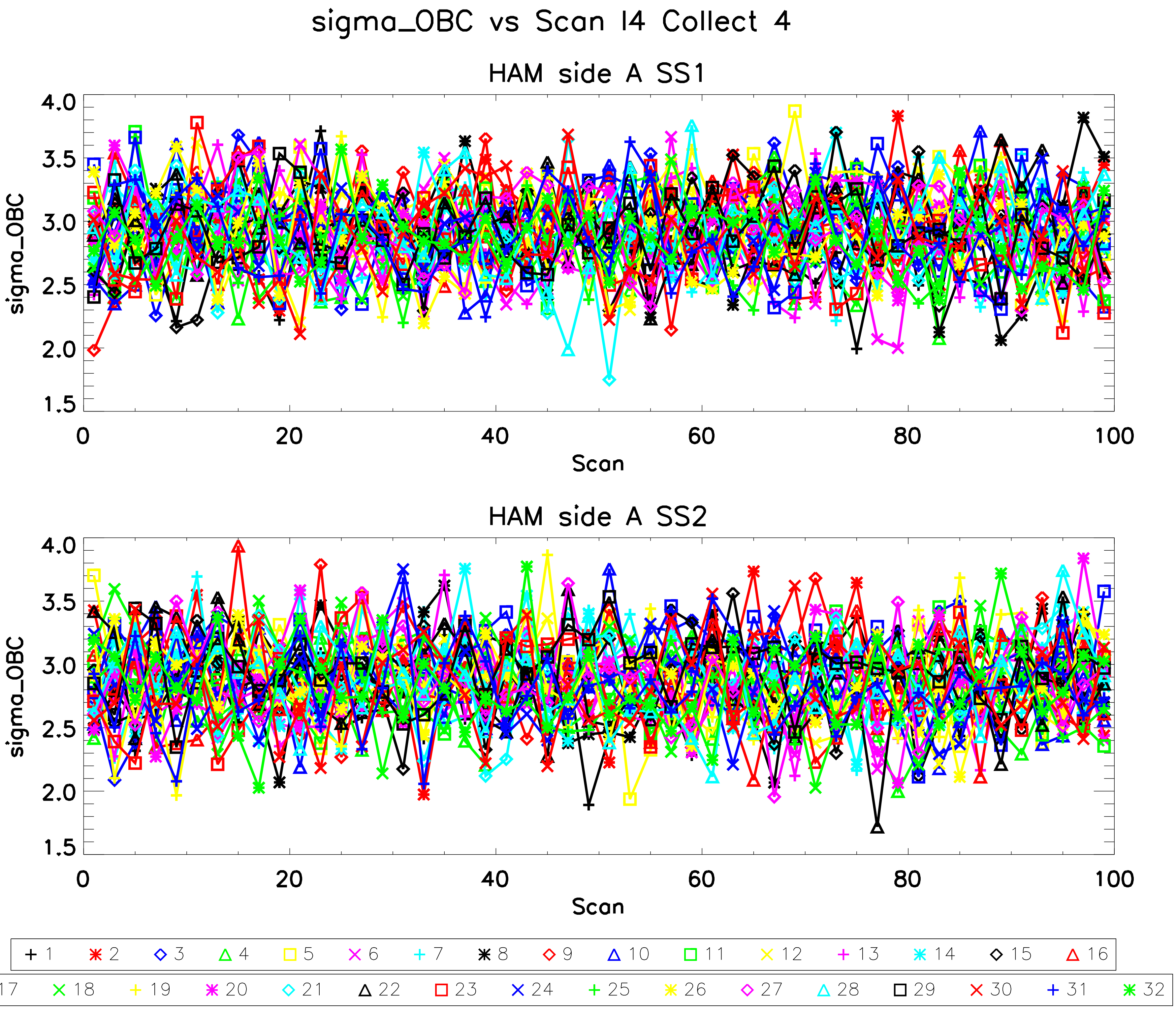

sigma_OBC vs Scan M15 Collect 3
HAM side A SS1
sigma_OBC
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

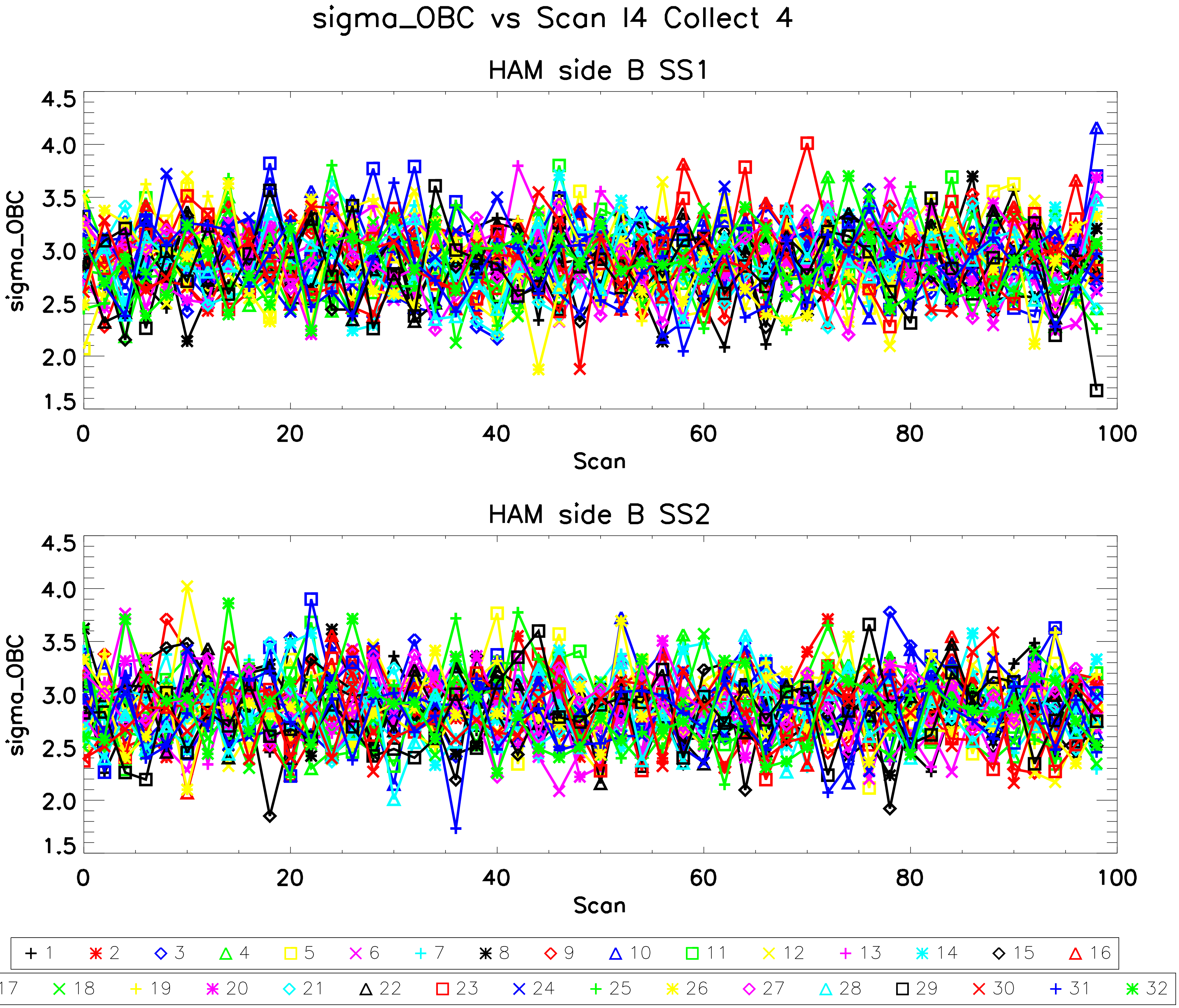
sigma_OBC vs Scan M16A Collect 3



sigma_OBC vs Scan M16B Collect 3




sigma_OBC vs Scan I4 Collect 4
HAM side A SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32


sigma_OBC vs Scan I4 Collect 4
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
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□ 23
× 24
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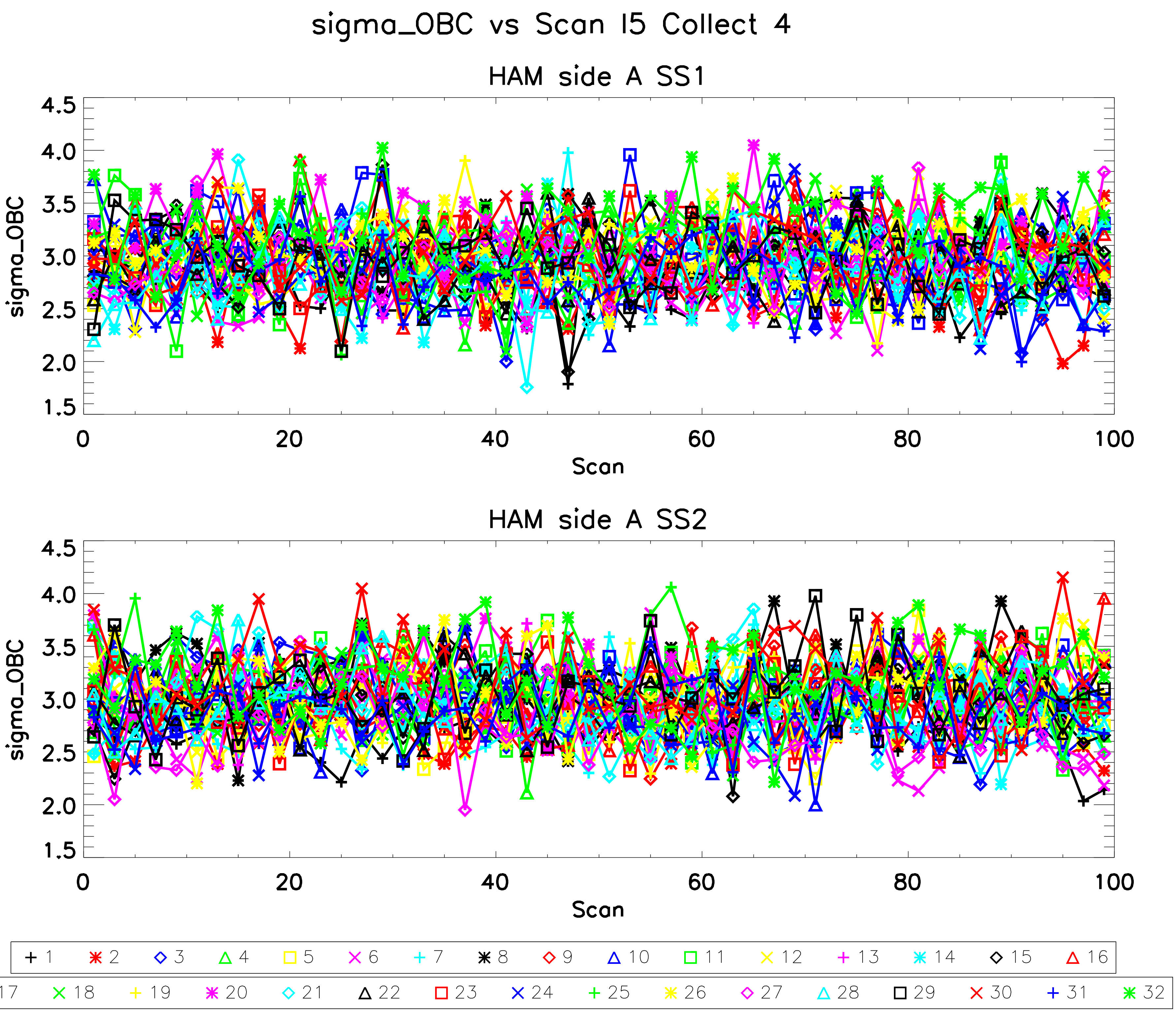
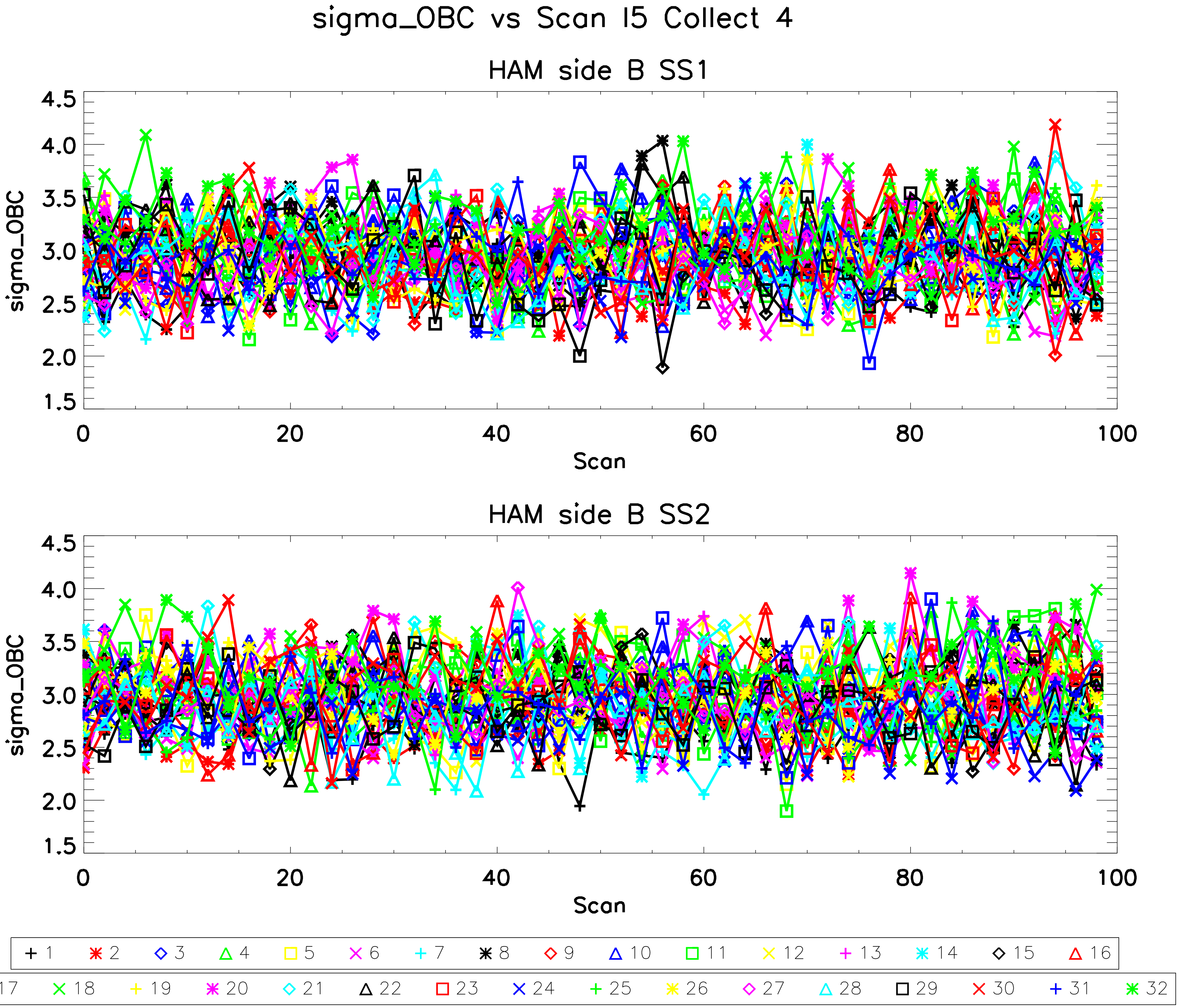
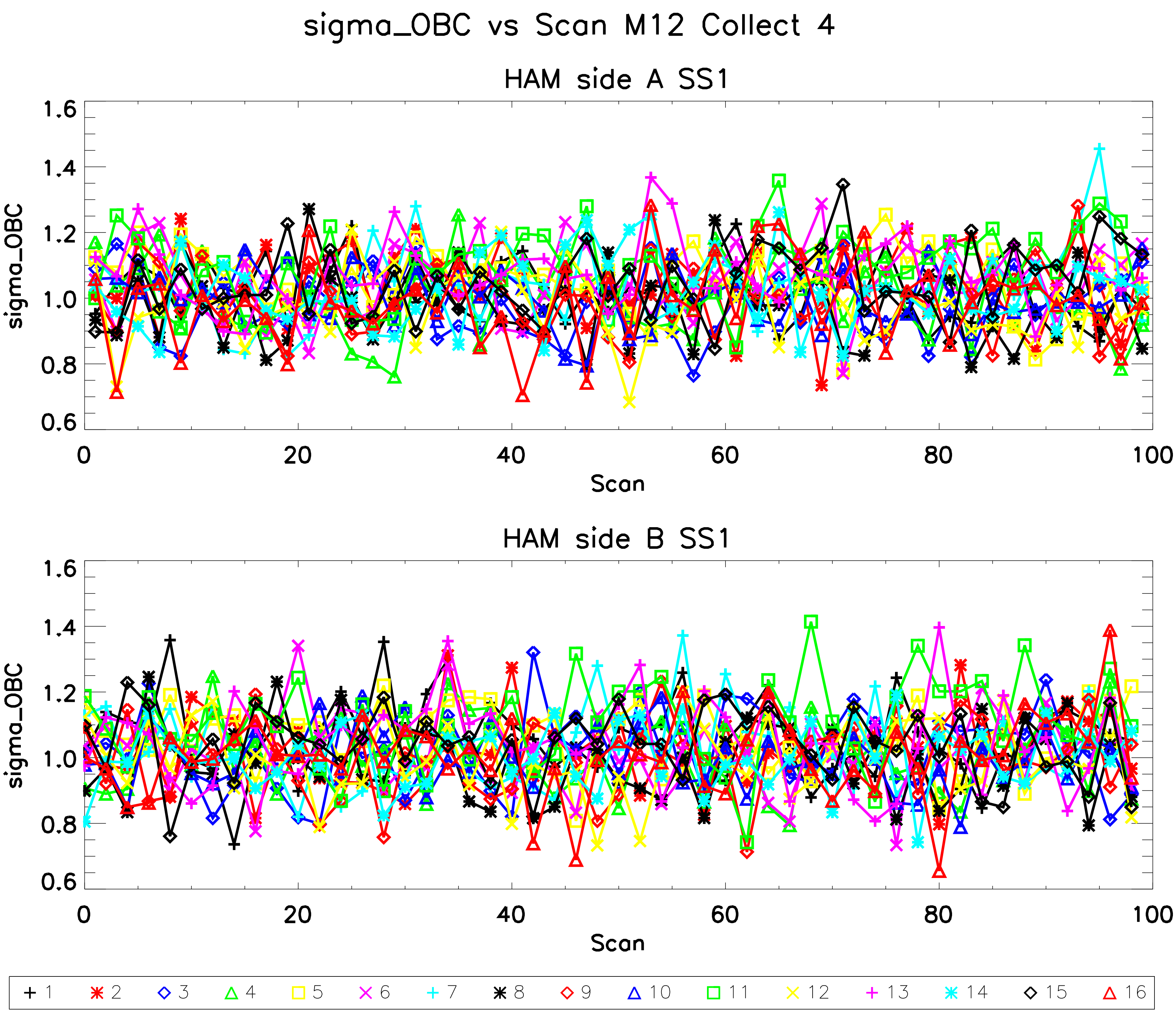
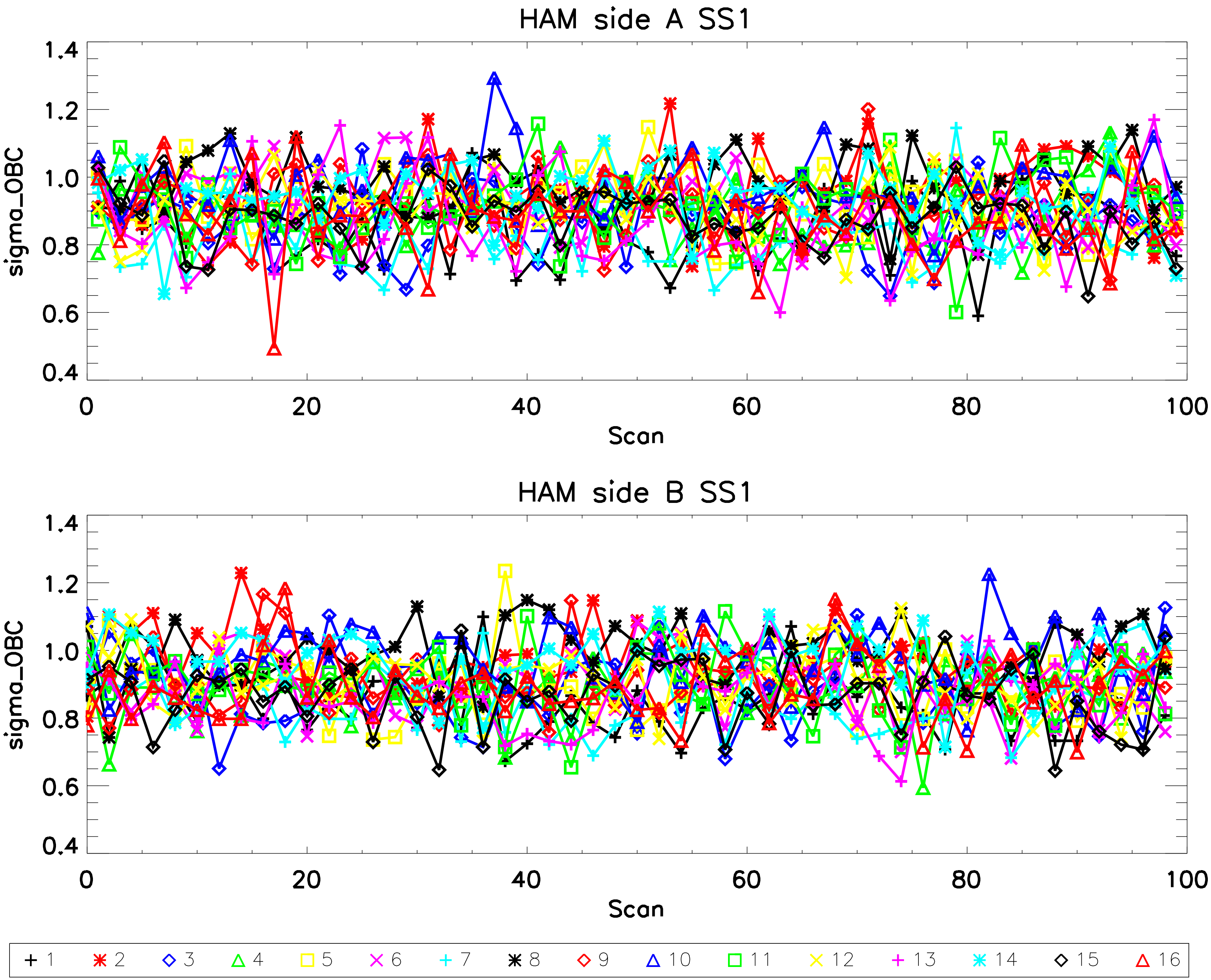
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32


sigma_OBC vs Scan I5 Collect 4
HAM side A SS1
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

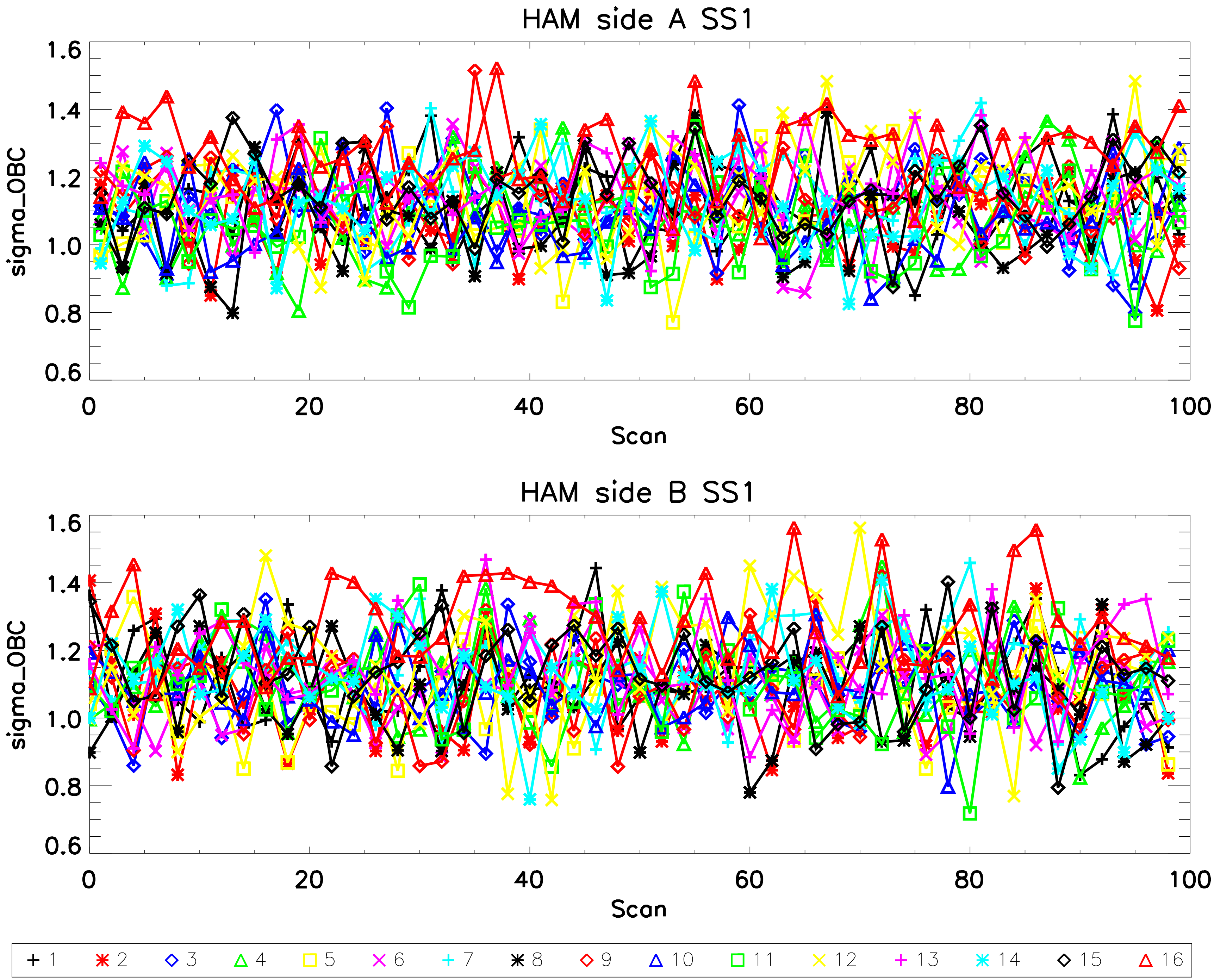

sigma_OBC vs Scan I5 Collect 4
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

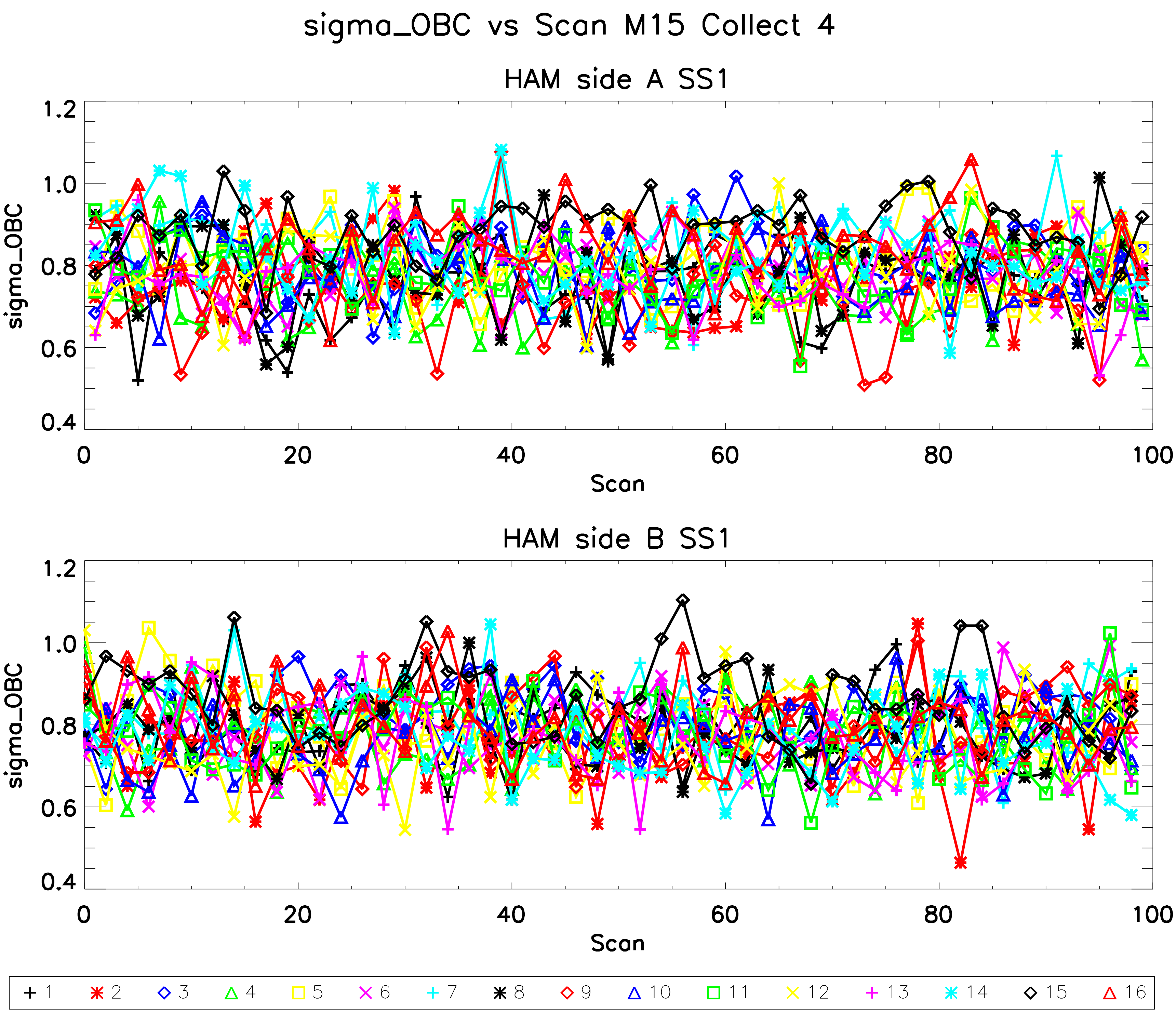

sigma_OBC vs Scan M12 Collect 4
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

sigma_OBC vs Scan M13 Collect 4

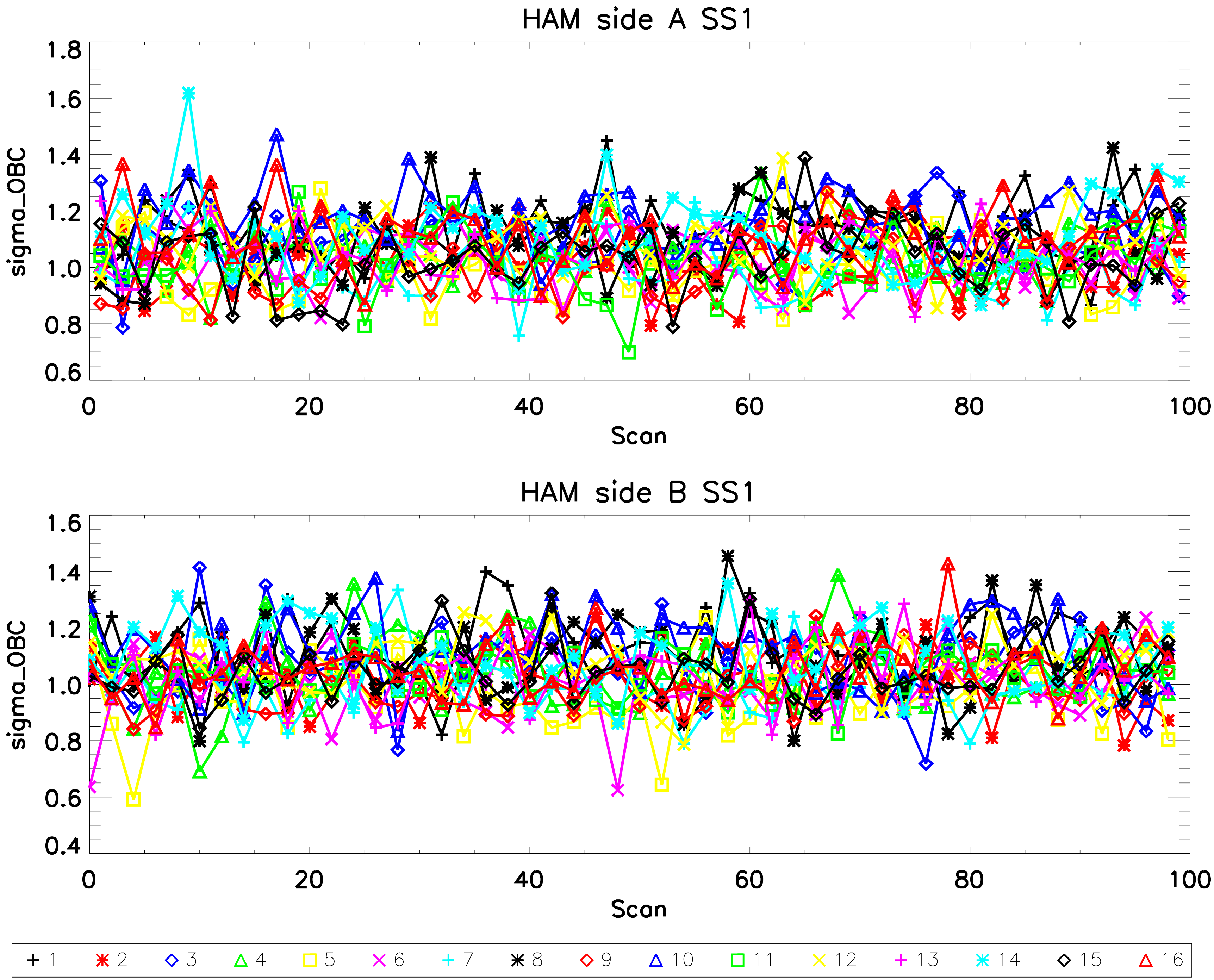


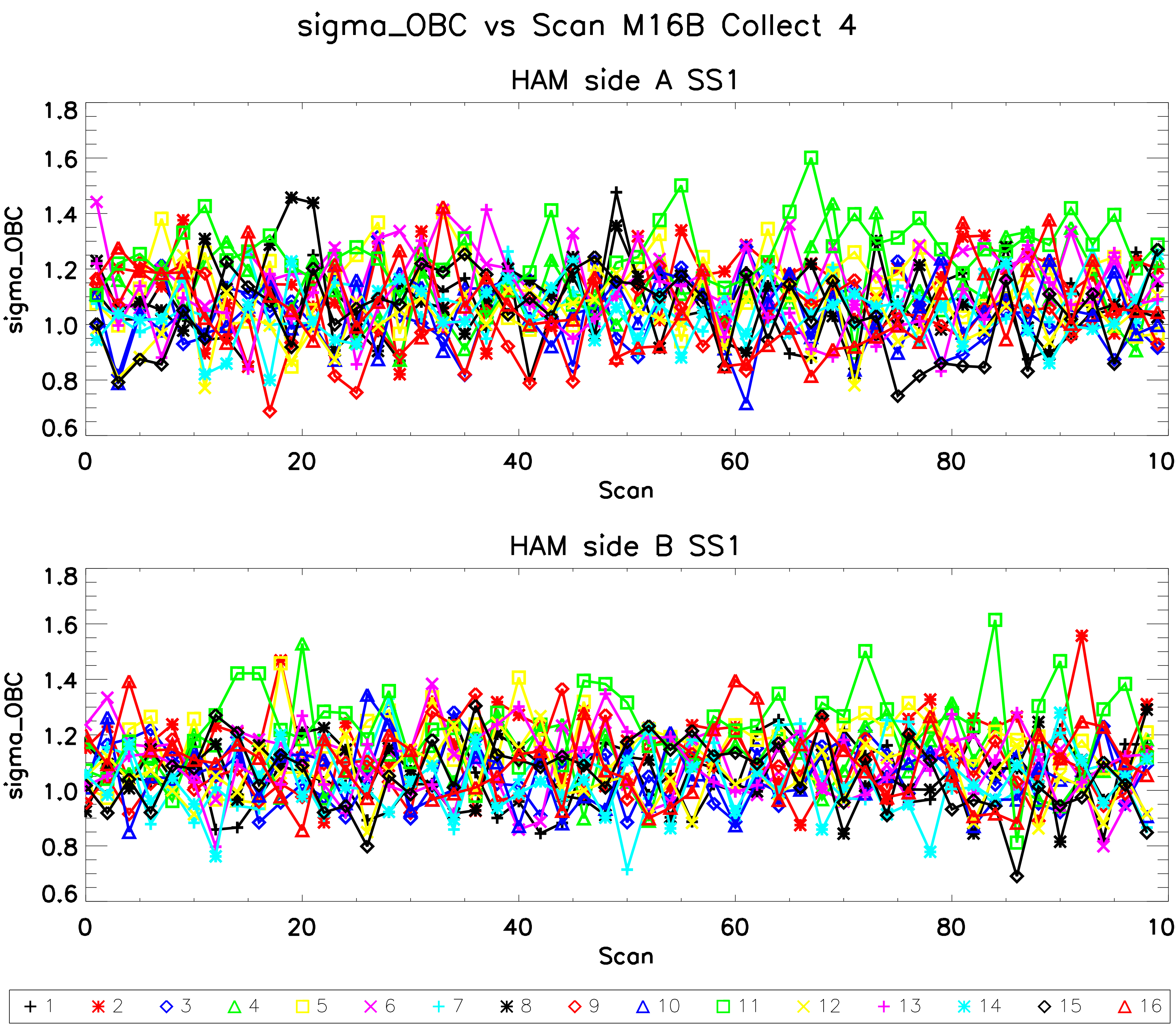
sigma_OBC vs Scan M14 Collect 4



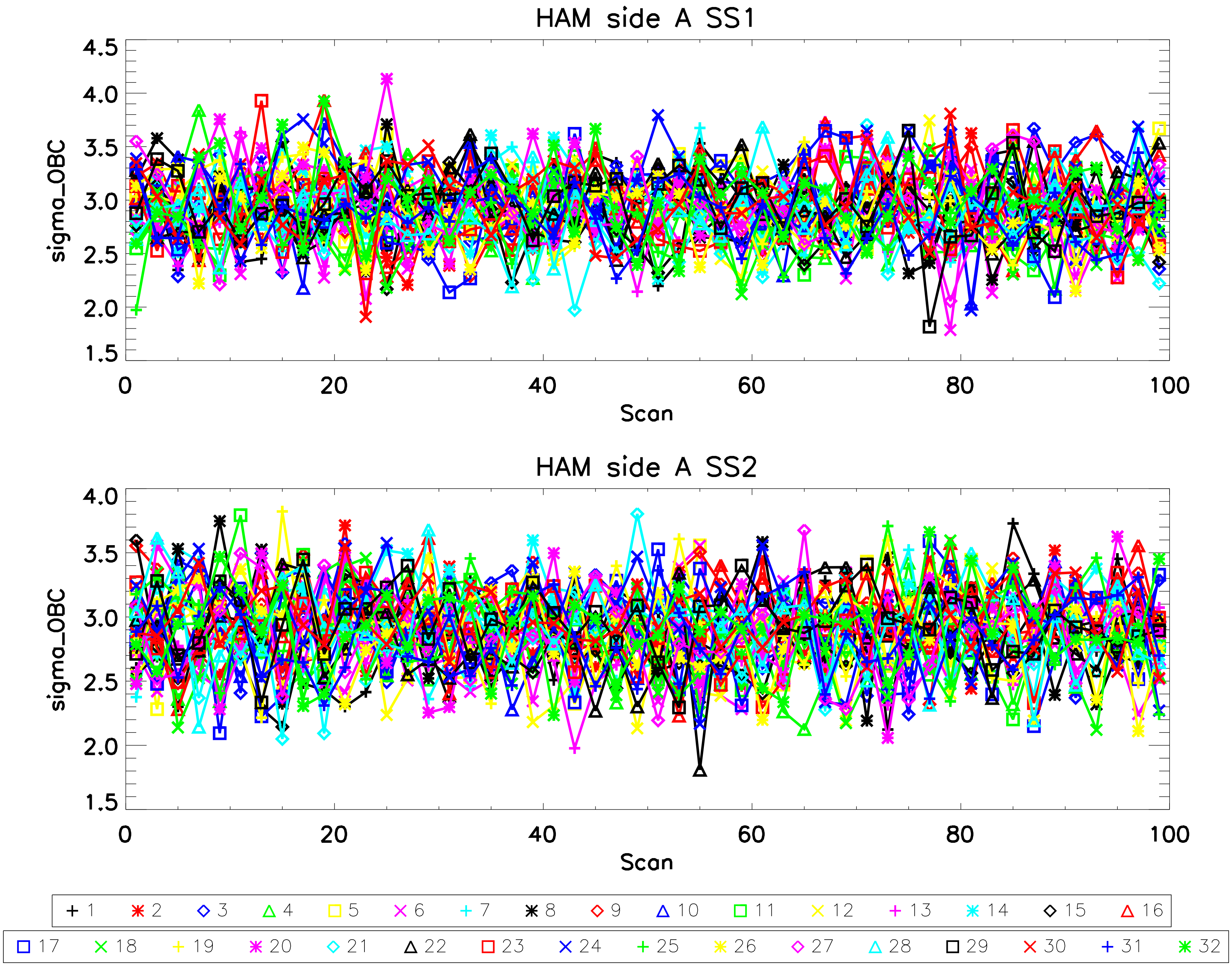

sigma_OBC vs Scan M15 Collect 4
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

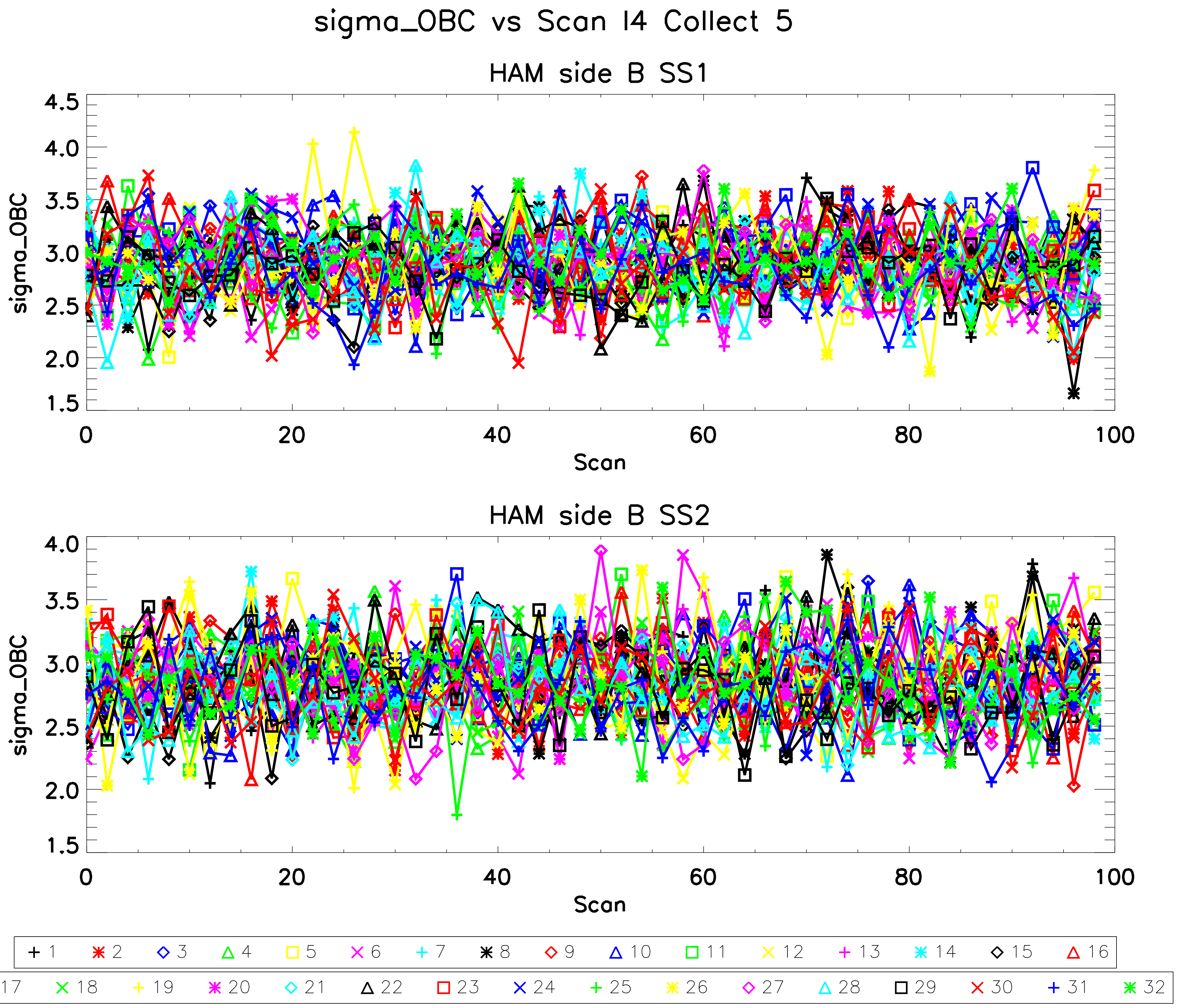
sigma_OBC vs Scan M16A Collect 4

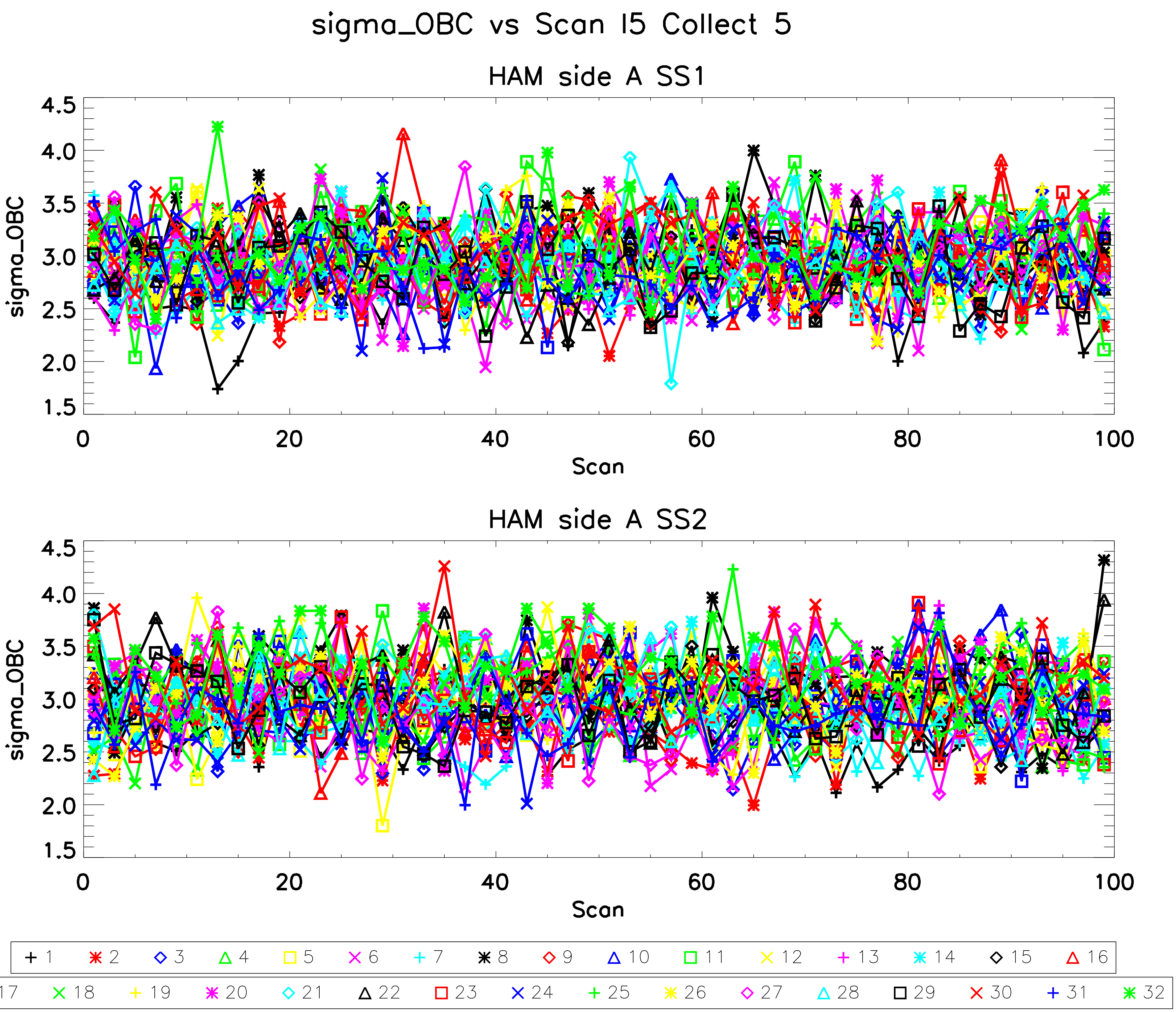


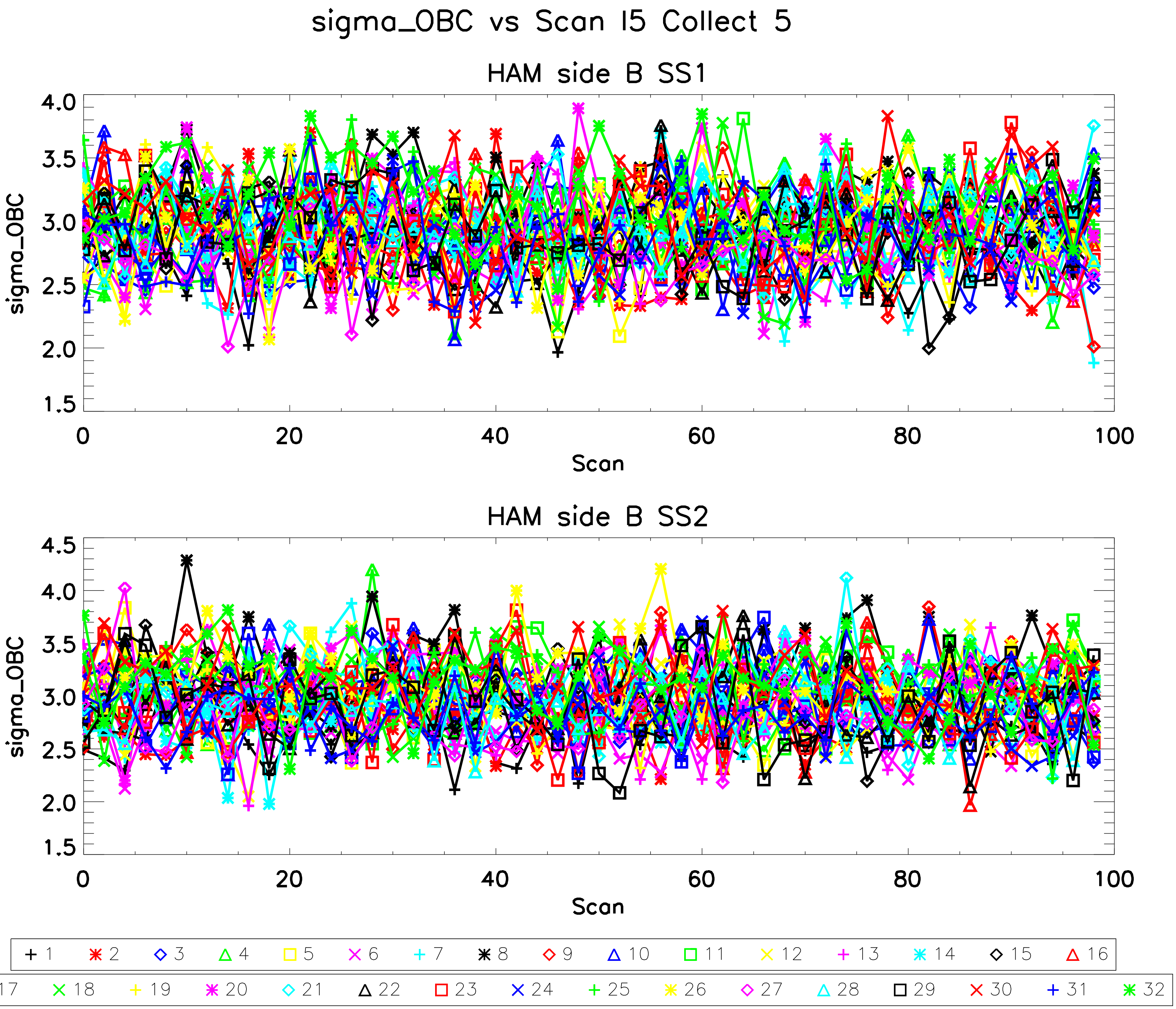

sigma_OBC vs Scan M16B Collect 4
HAM side A SS1
sigma_OBC
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

sigma_OBC vs Scan I4 Collect 5

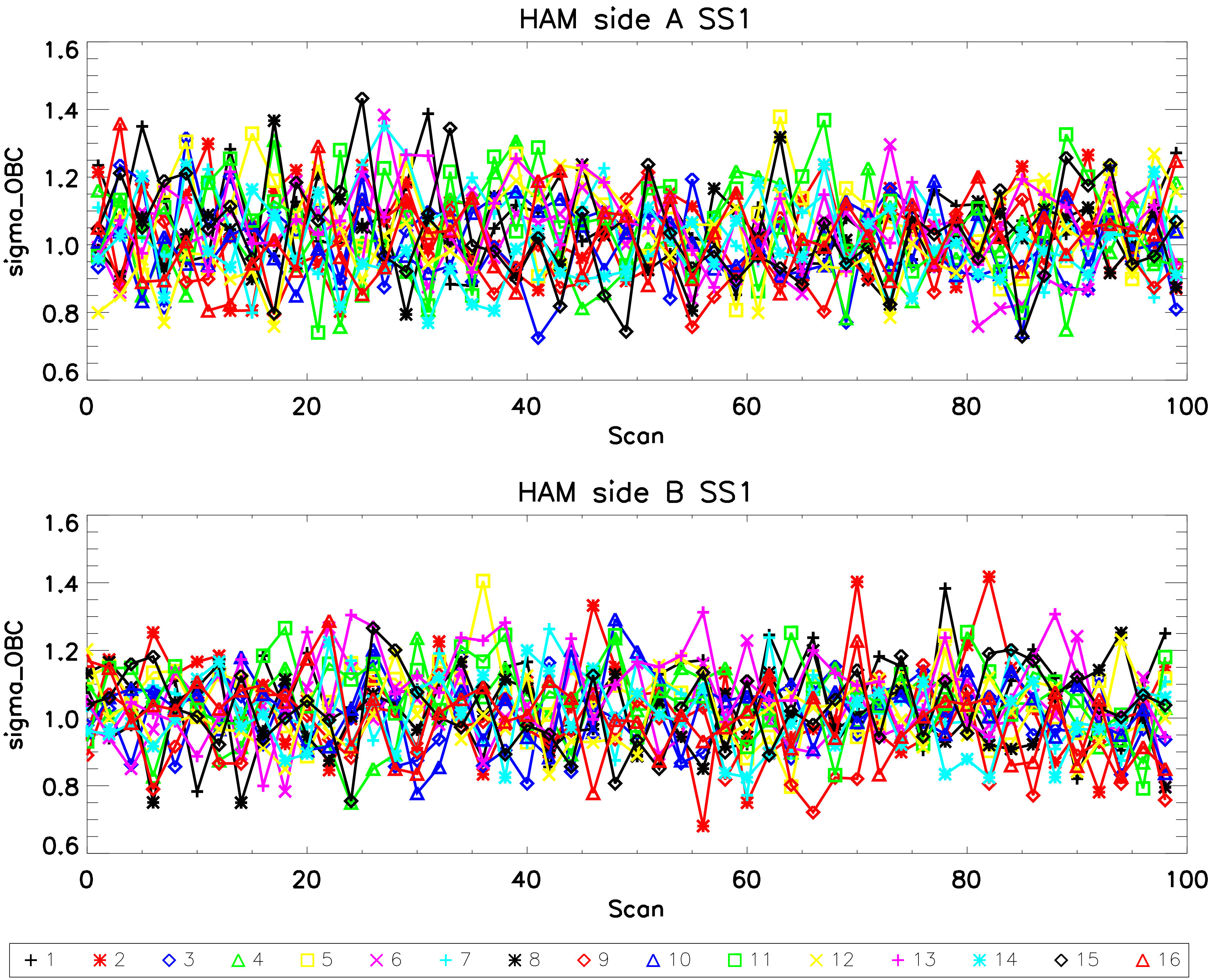


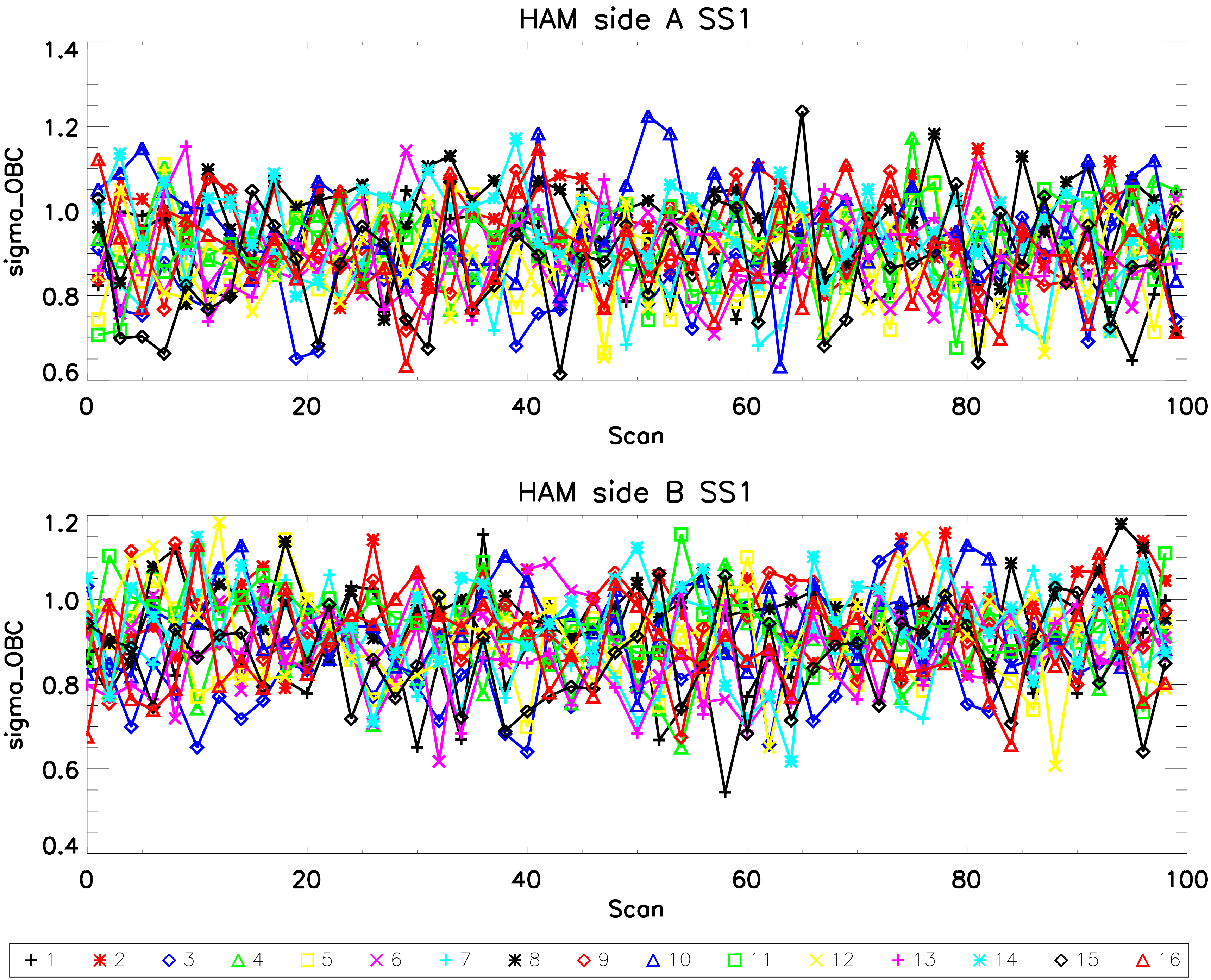

sigma_OBC vs Scan I4 Collect 5
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

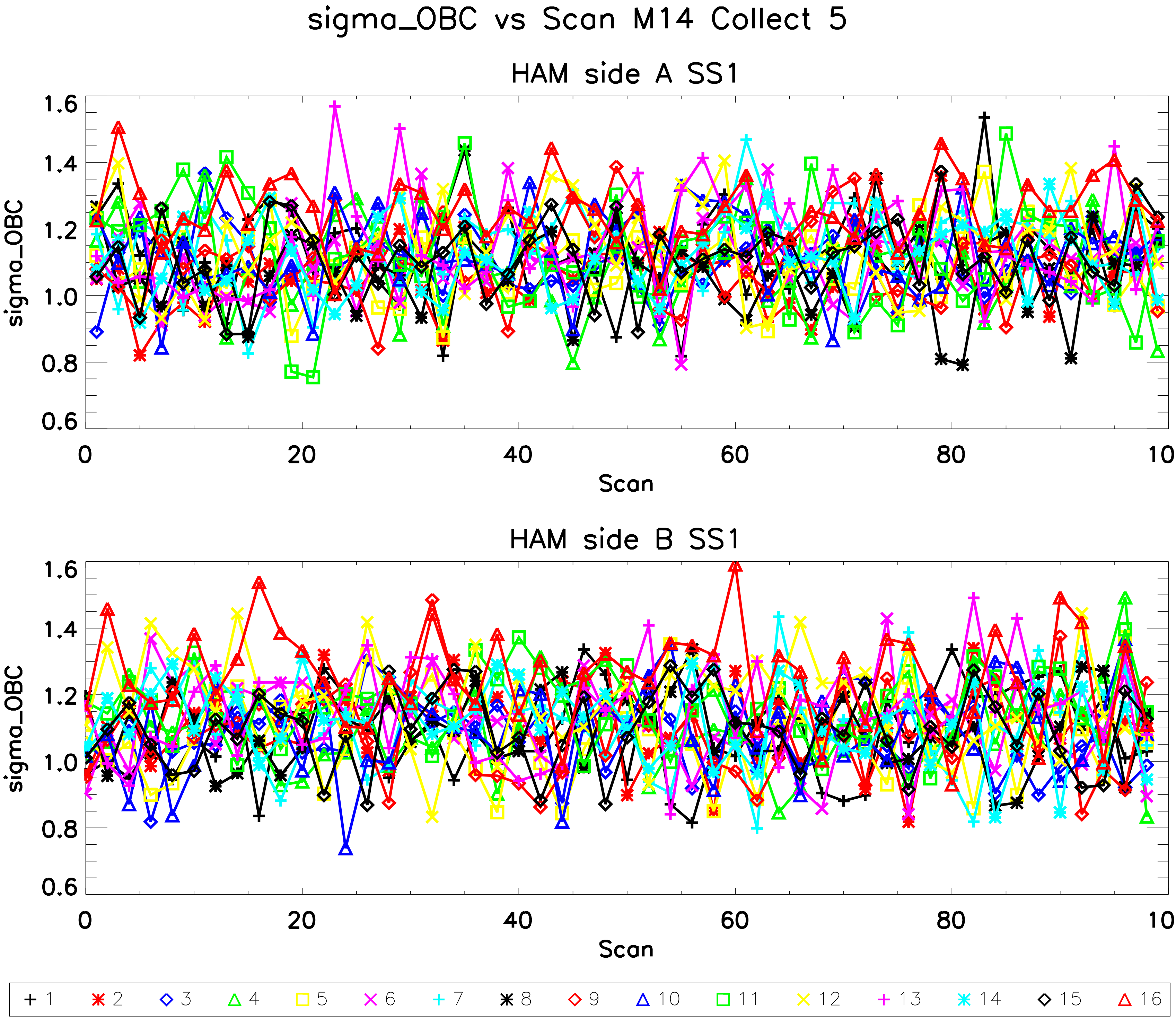

sigma_OBC vs Scan I5 Collect 5
HAM side A SS1
HAM side A SS2
sigma_OBC
1.5
2.0
2.5
3.0
3.5
4.0
4.5
Scan
0
20
40
60
80
100
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

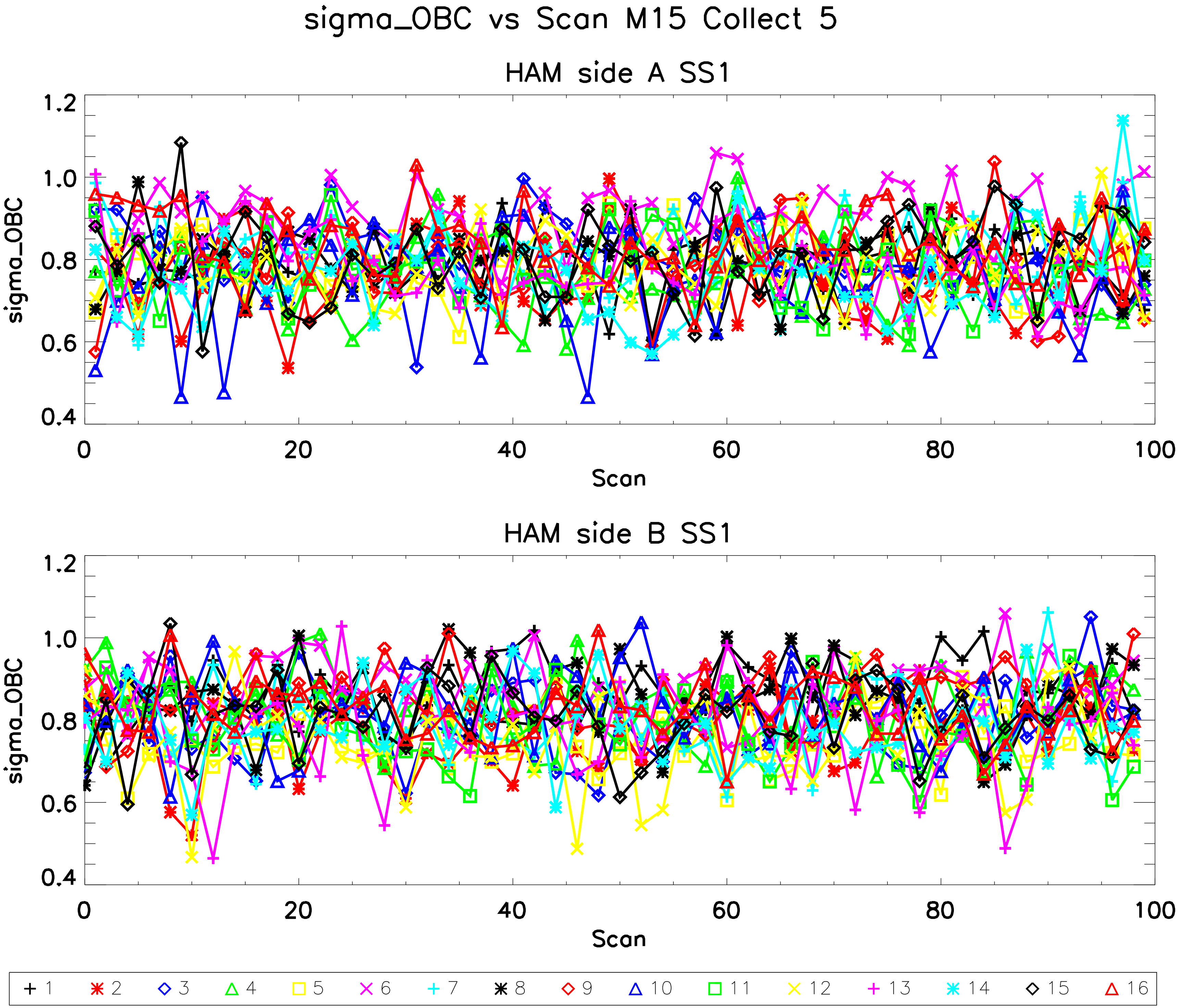

sigma_OBC vs Scan I5 Collect 5
HAM side B SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

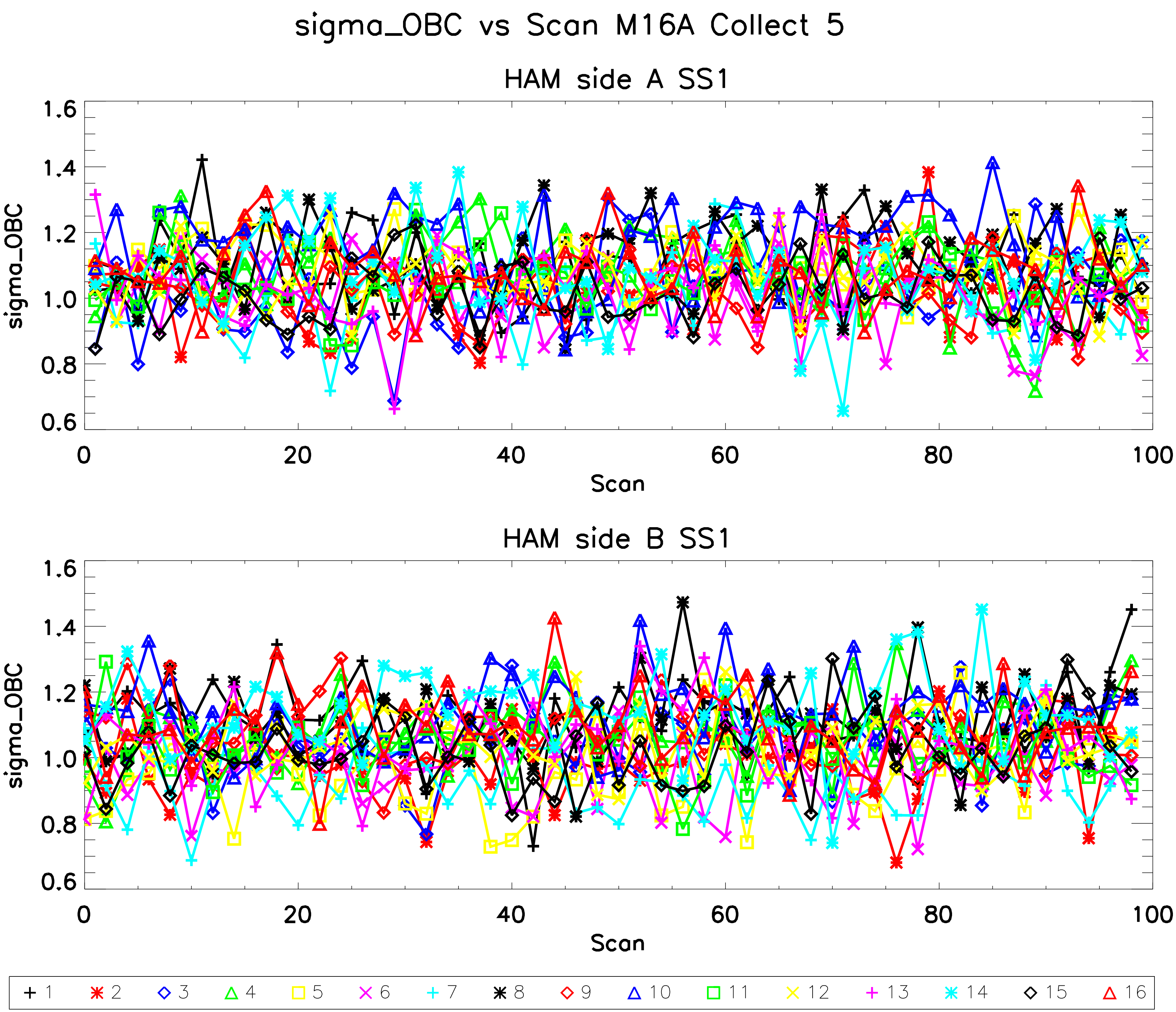
sigma_OBC vs Scan M12 Collect 5

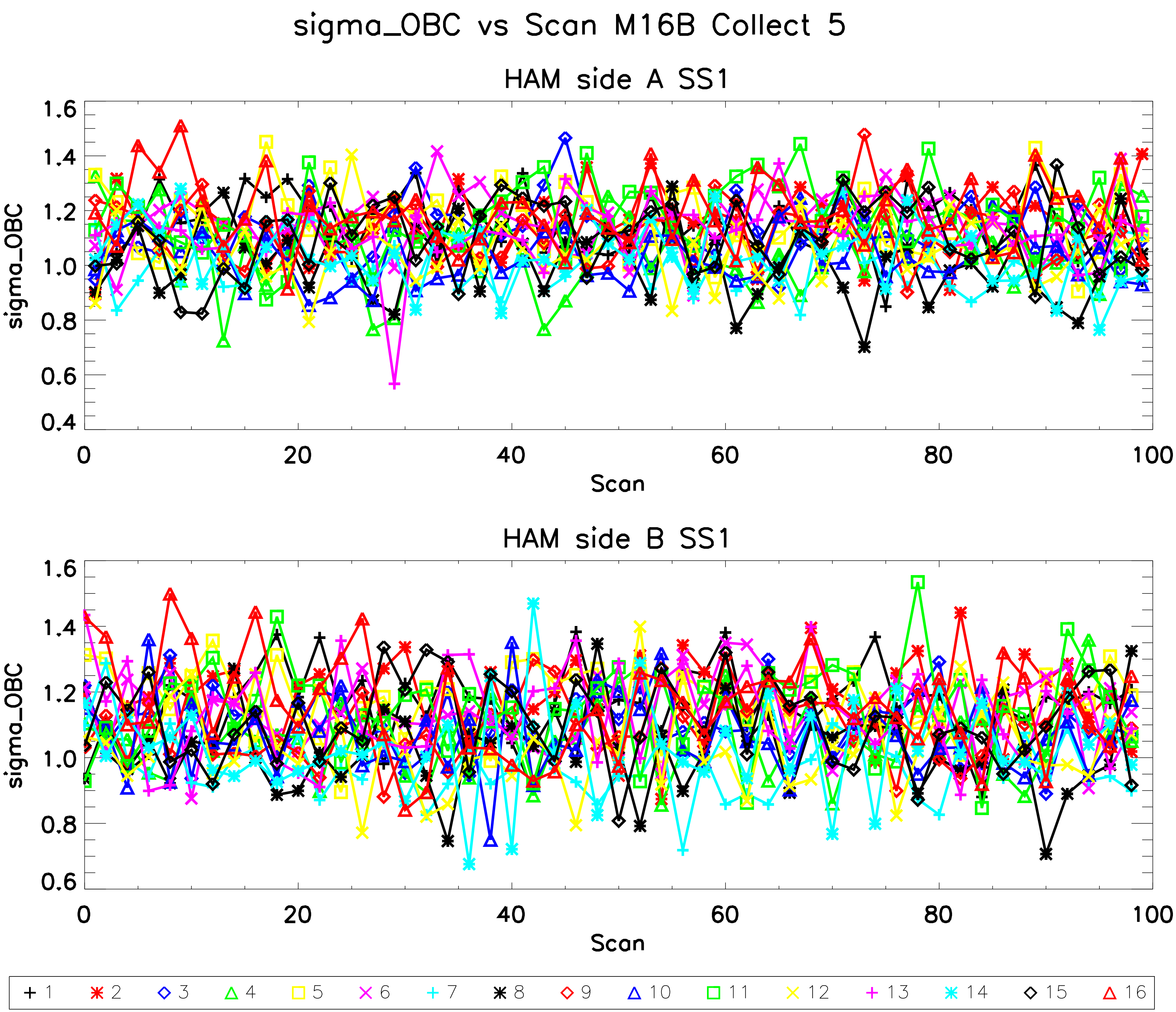



sigma_OBC vs Scan M13 Collect 5

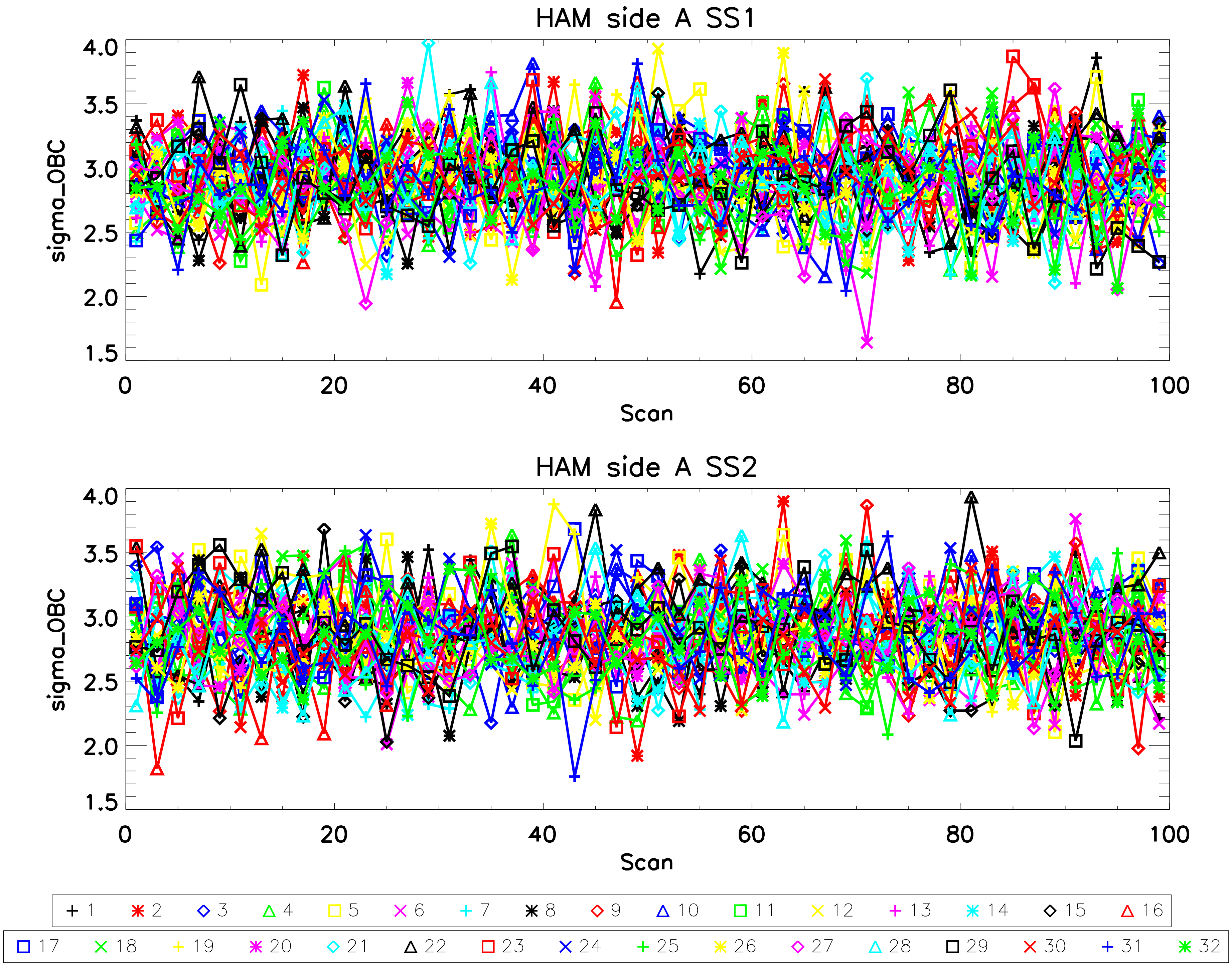

sigma_OBC vs Scan M14 Collect 5
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

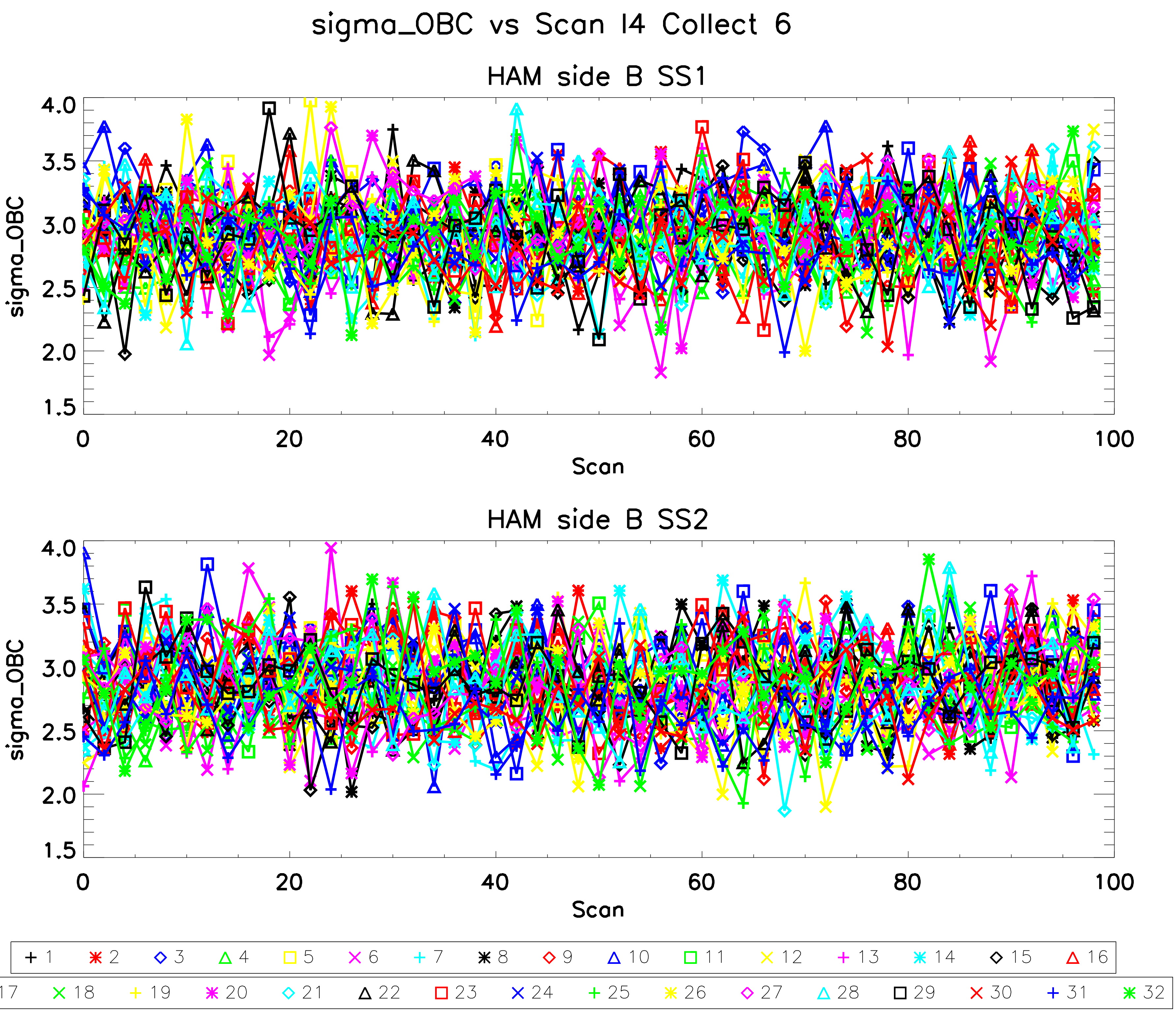

sigma_OBC vs Scan M15 Collect 5
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

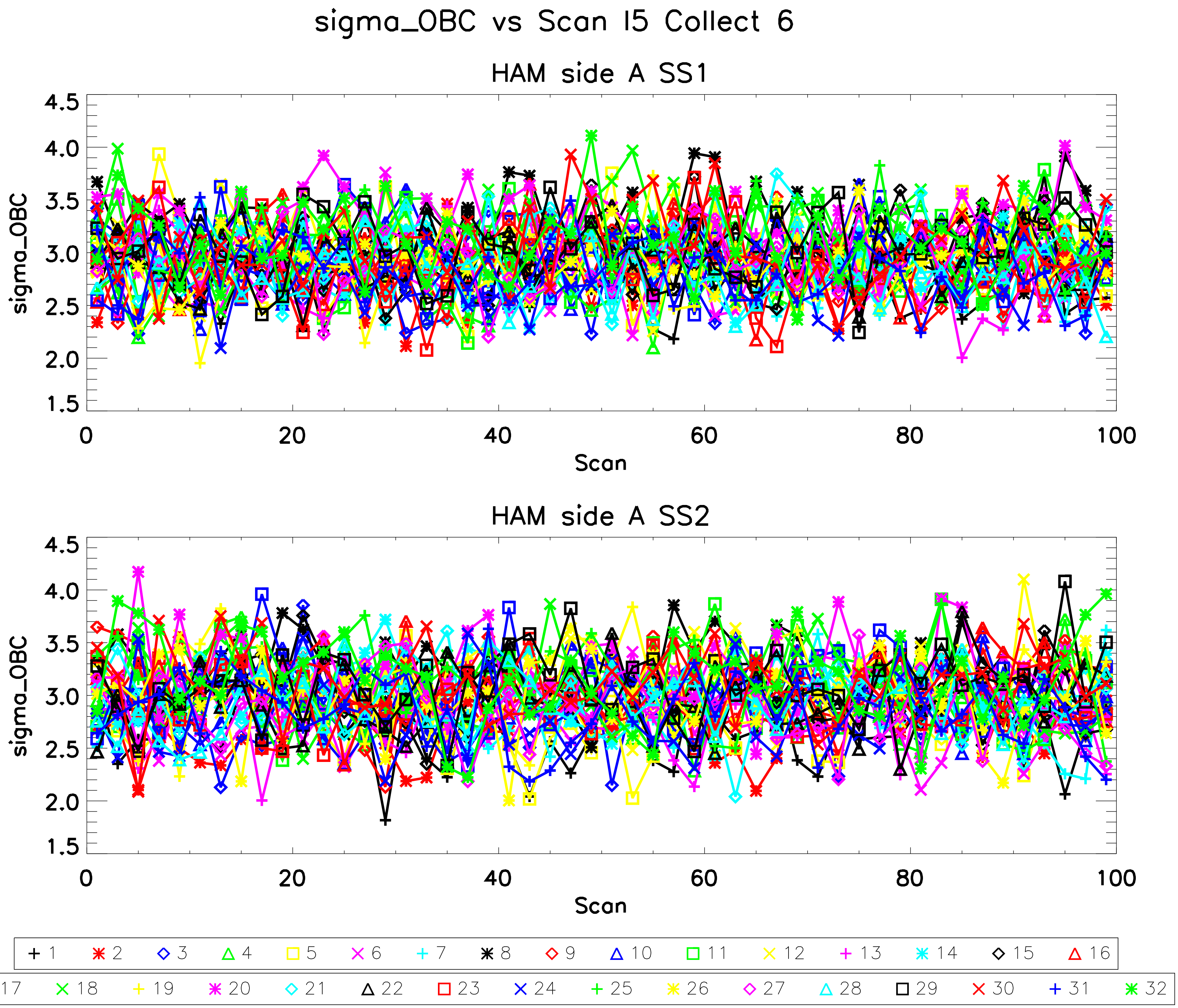

sigma_OBC vs Scan M16A Collect 5
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

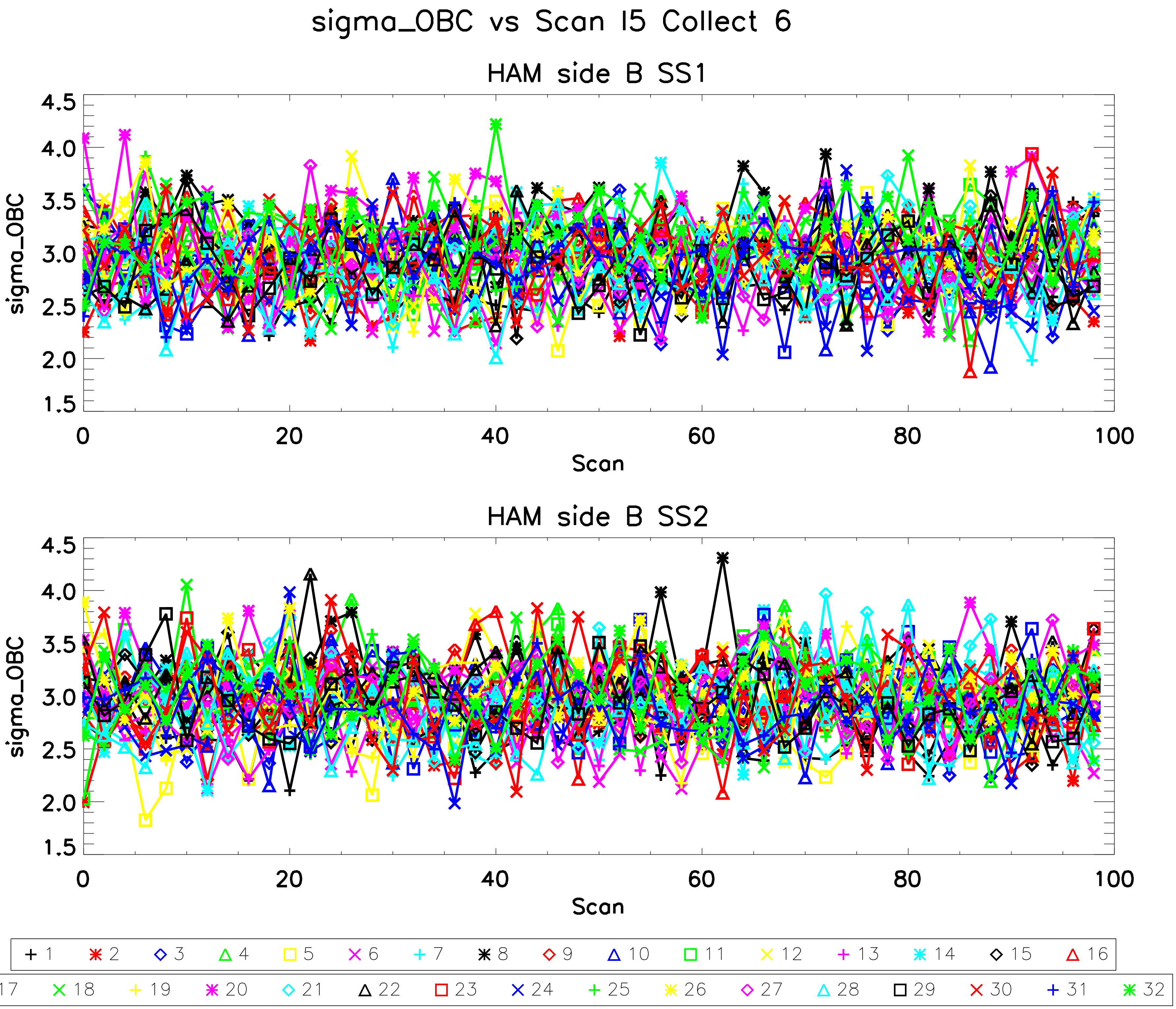

sigma_OBC vs Scan M16B Collect 5
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

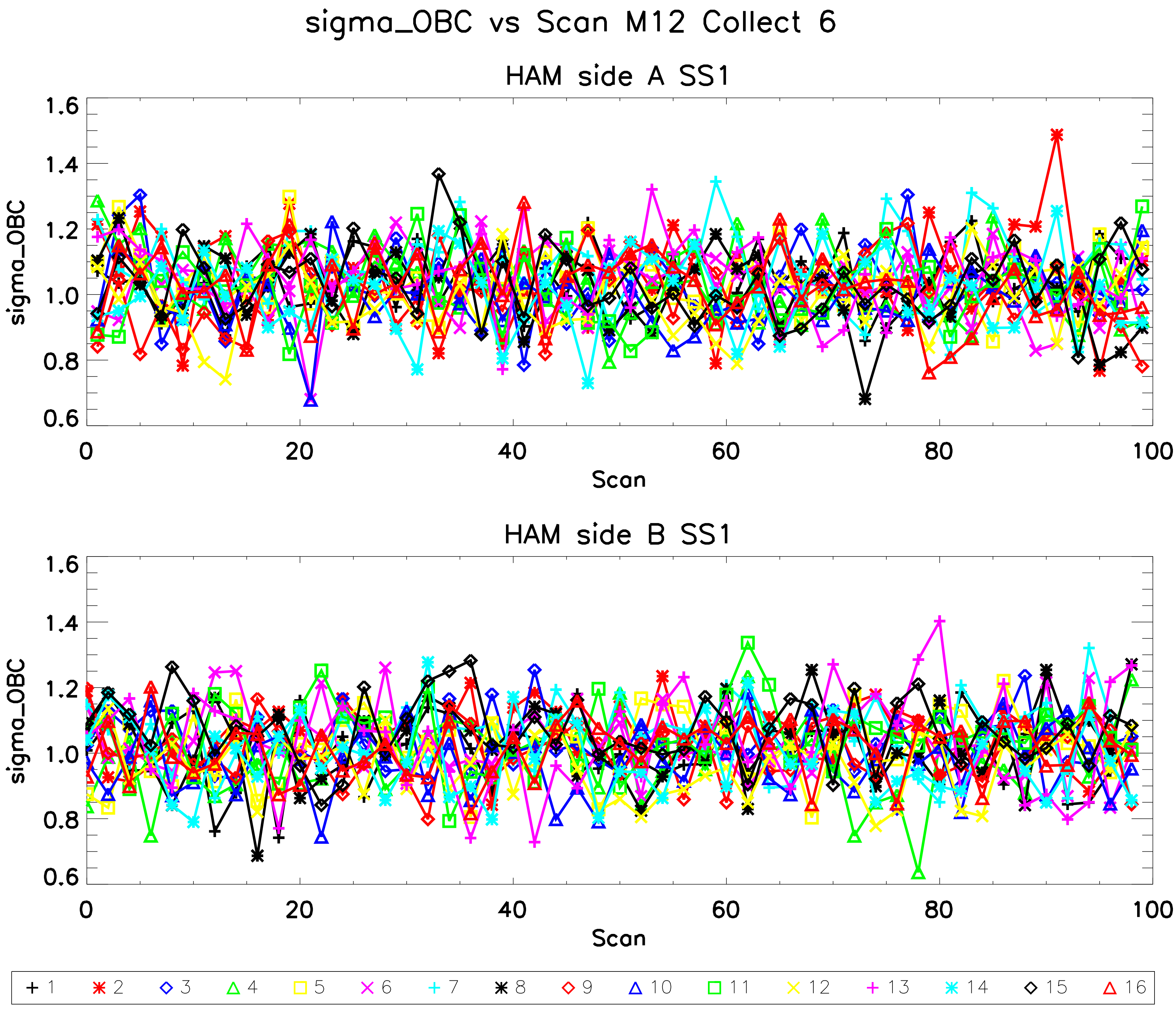
sigma_OBC vs Scan I4 Collect 6

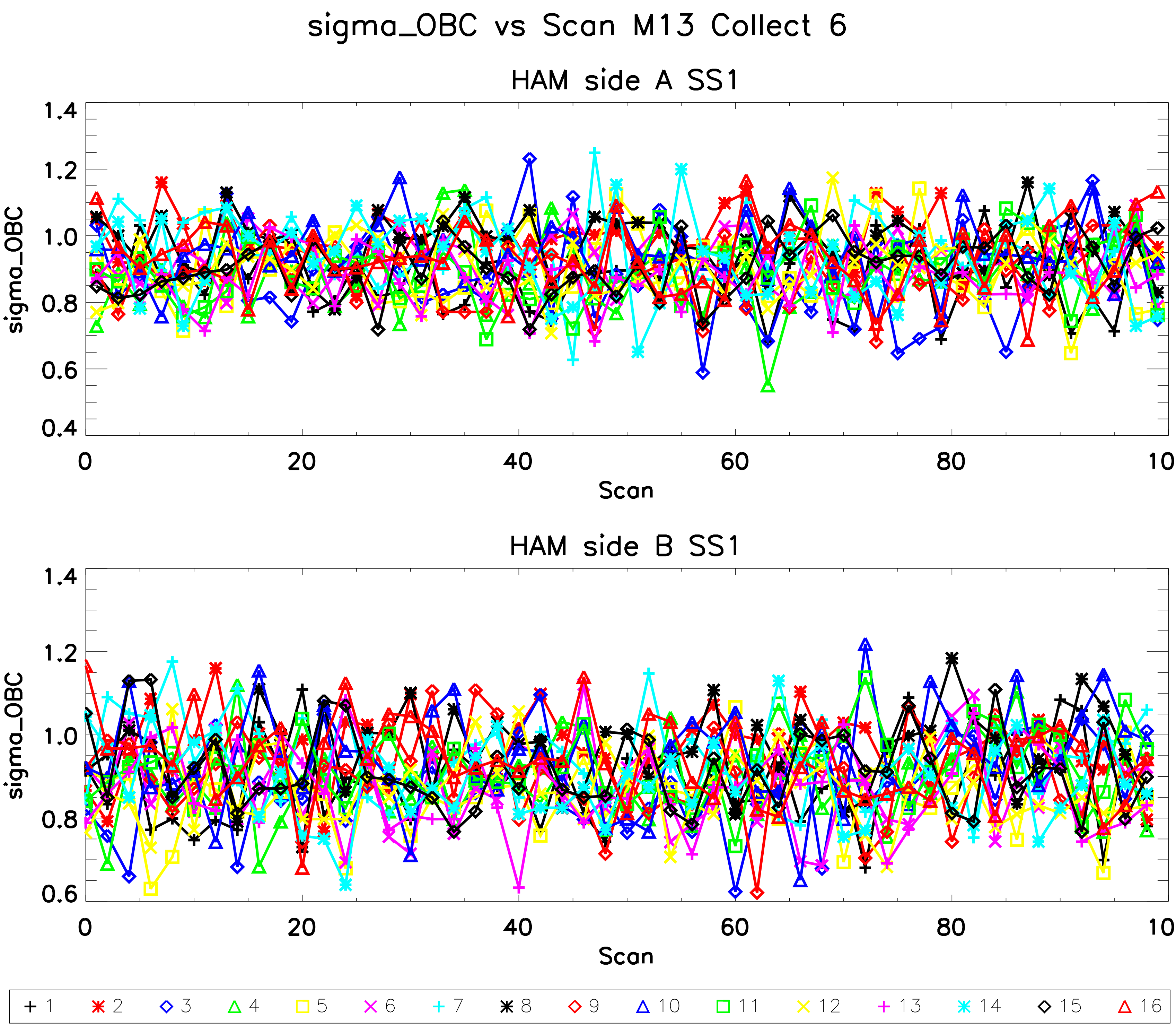


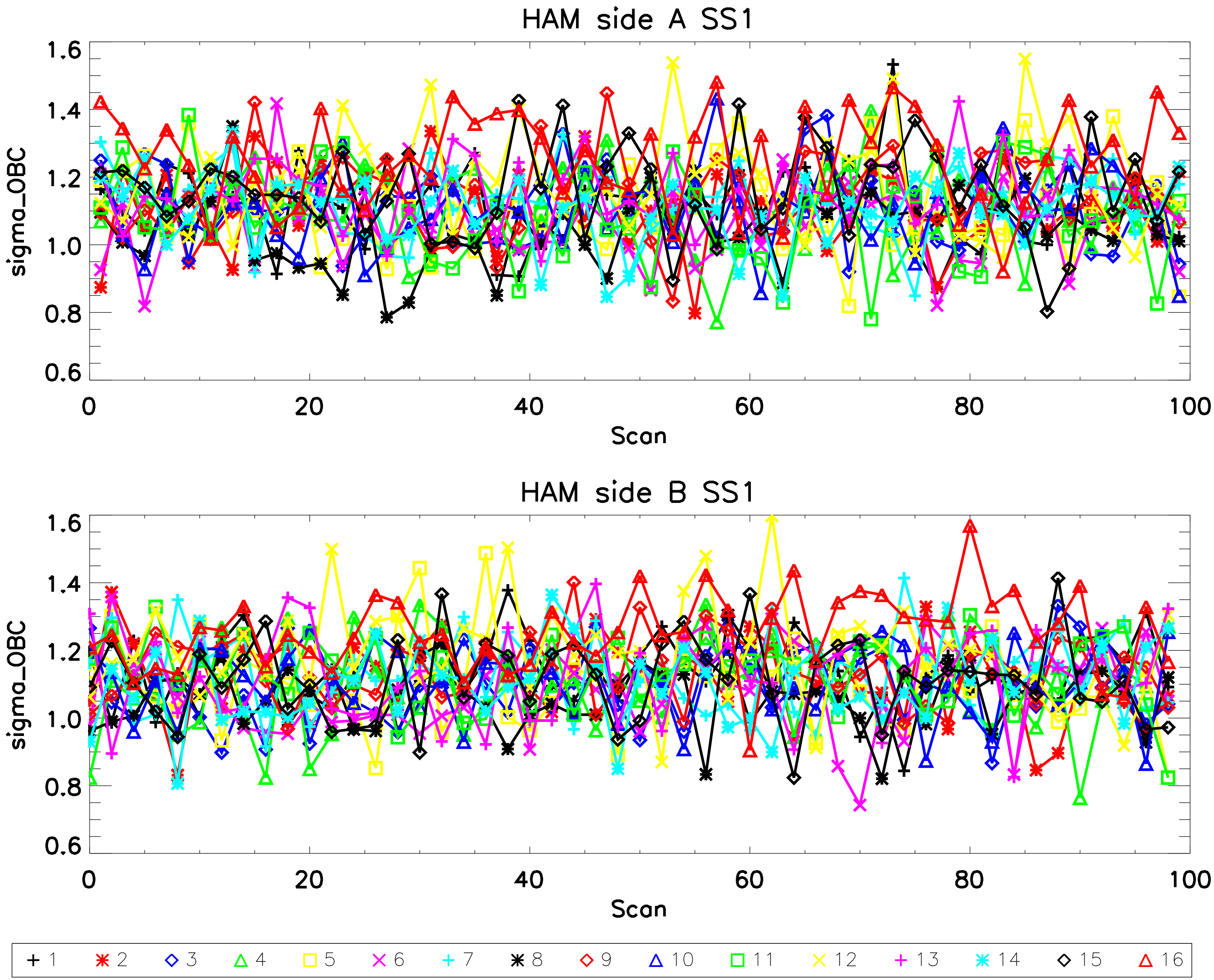

sigma_OBC vs Scan I4 Collect 6
HAM side B SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32


sigma_OBC vs Scan I5 Collect 6
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

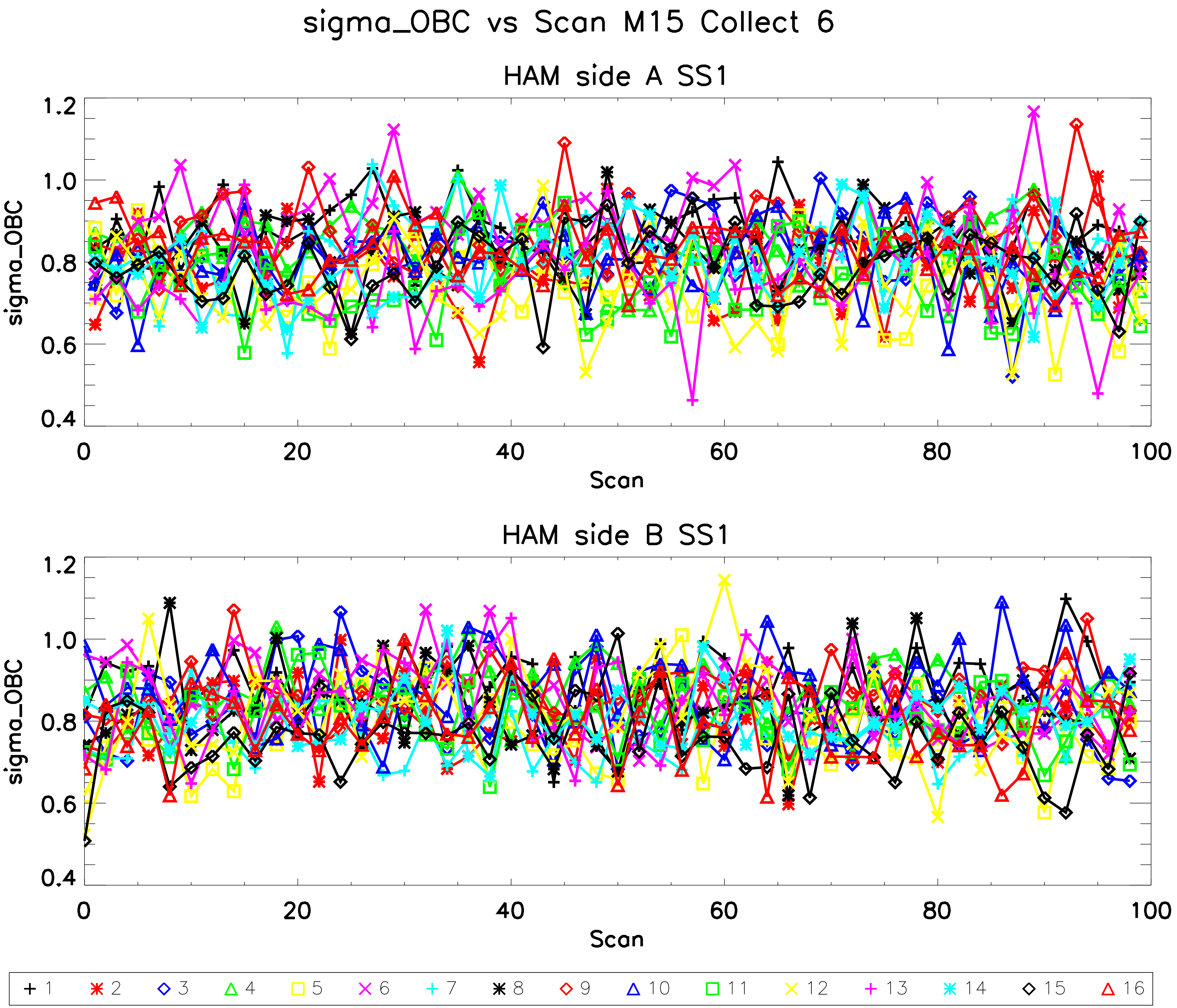

sigma_OBC vs Scan I5 Collect 6
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

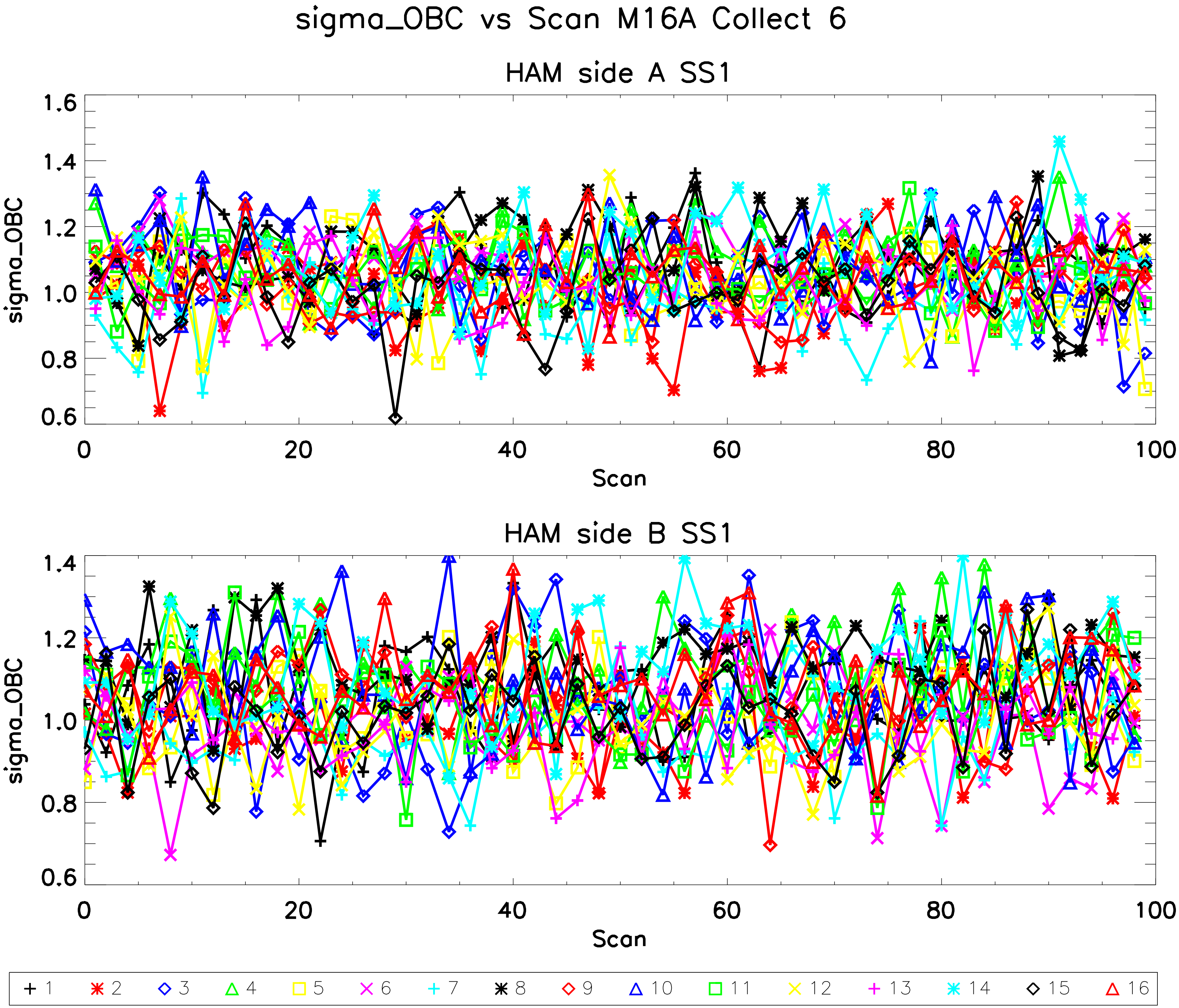

sigma_OBC vs Scan M12 Collect 6
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

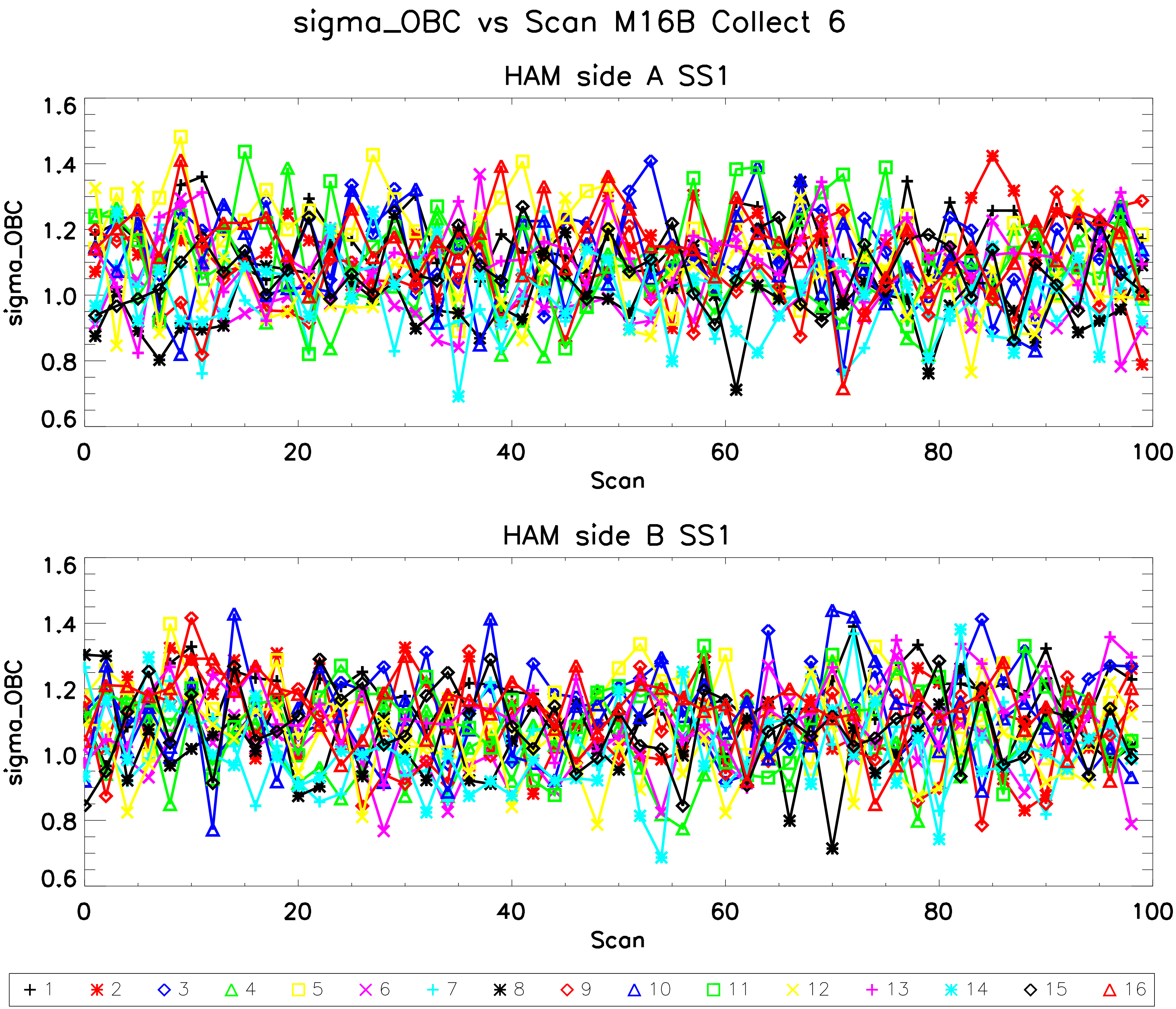

sigma_OBC vs Scan M13 Collect 6
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

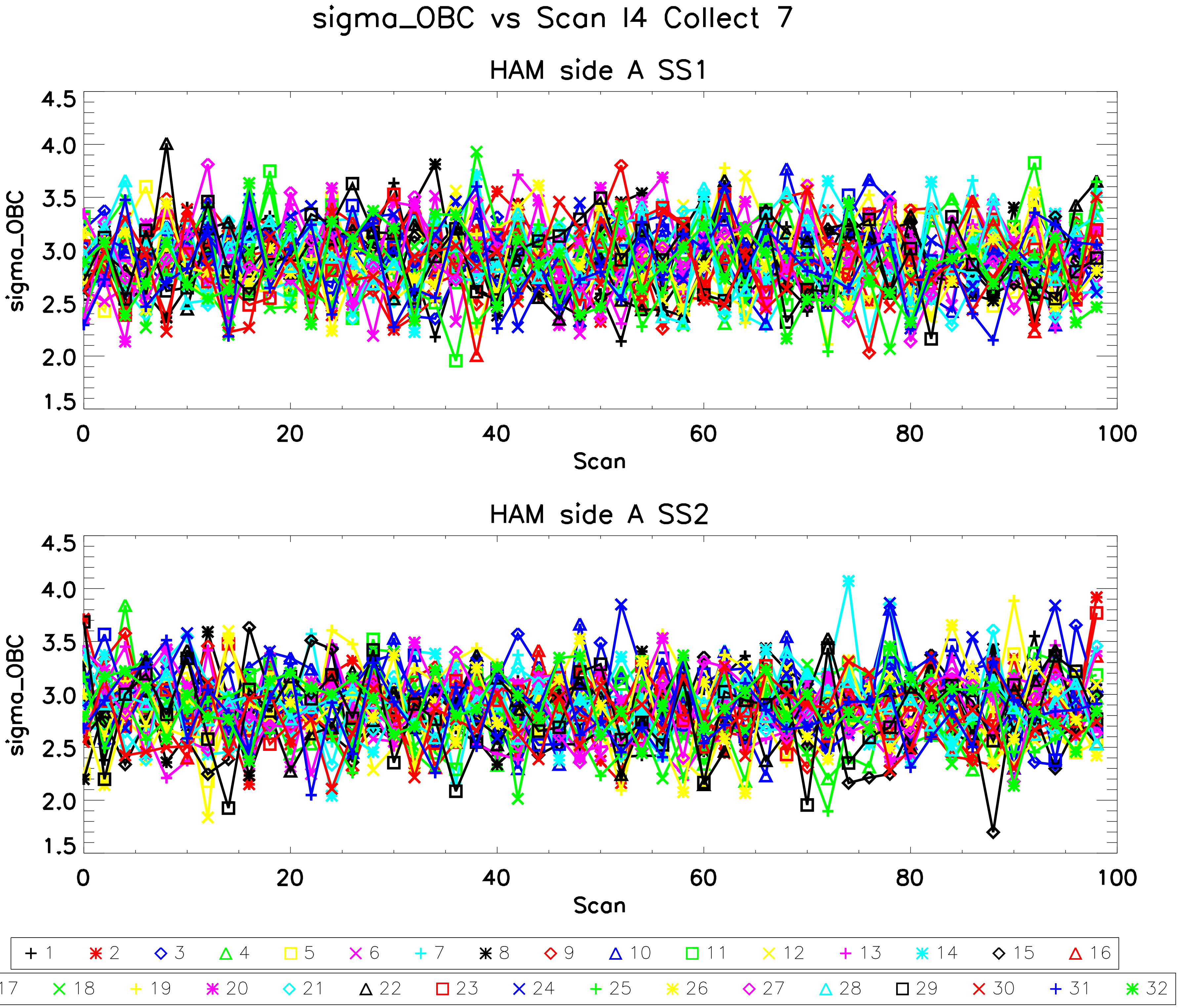


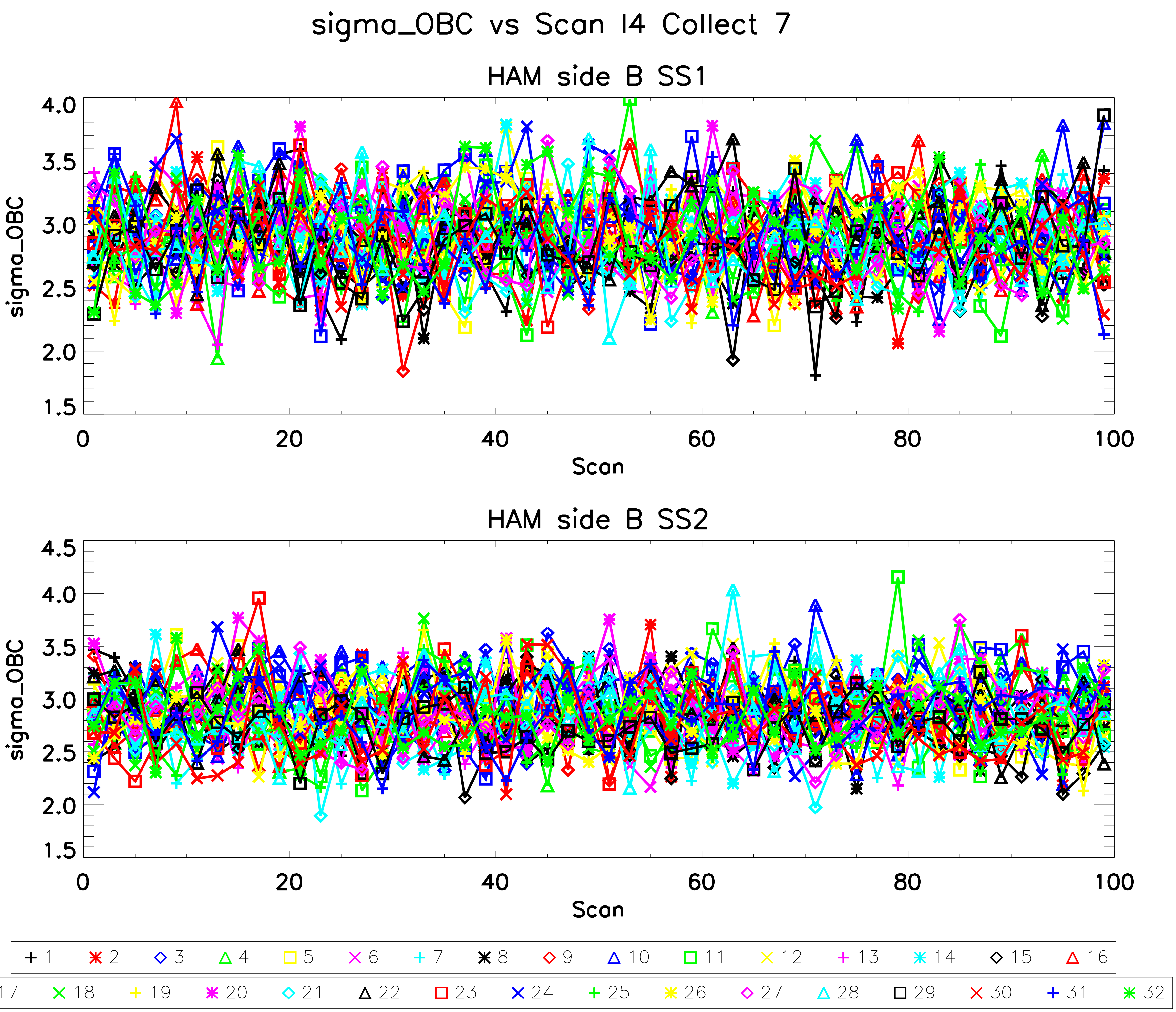
sigma_OBC vs Scan M14 Collect 6


sigma_OBC vs Scan M15 Collect 6
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M16A Collect 6
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M16B Collect 6
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


sigma_OBC vs Scan I4 Collect 7
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32


sigma_OBC vs Scan I4 Collect 7
HAM side B SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
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13
14
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16
17
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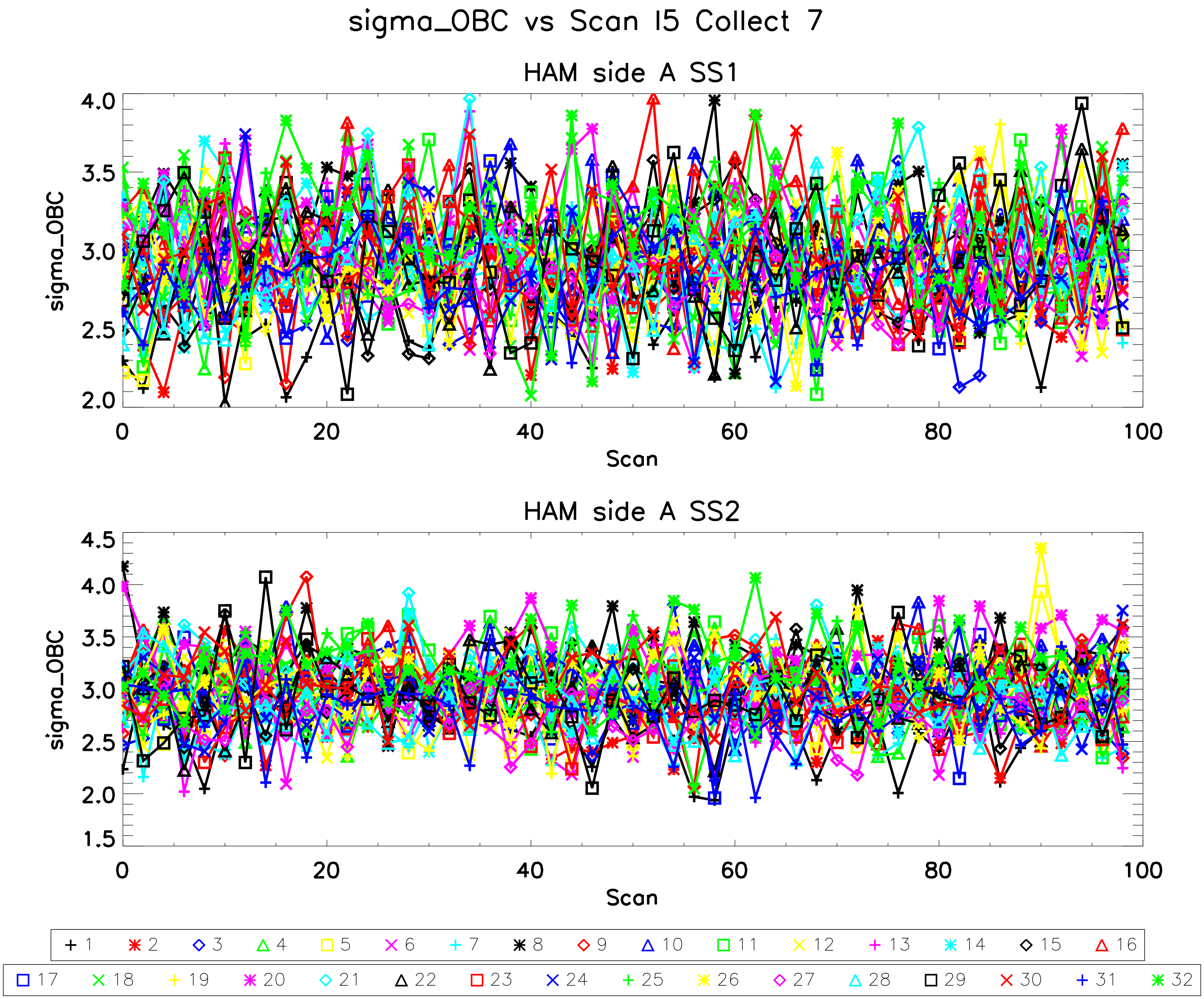
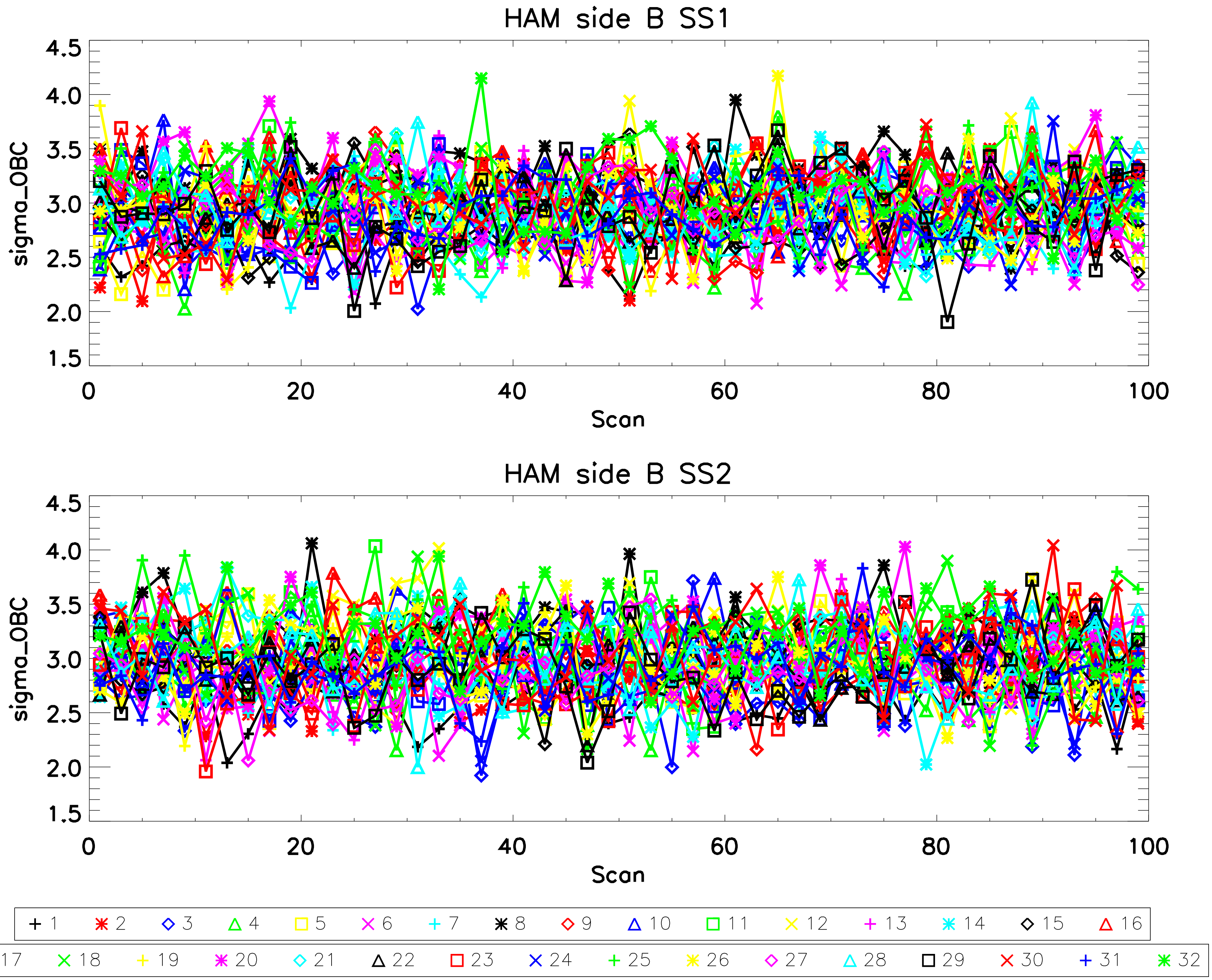
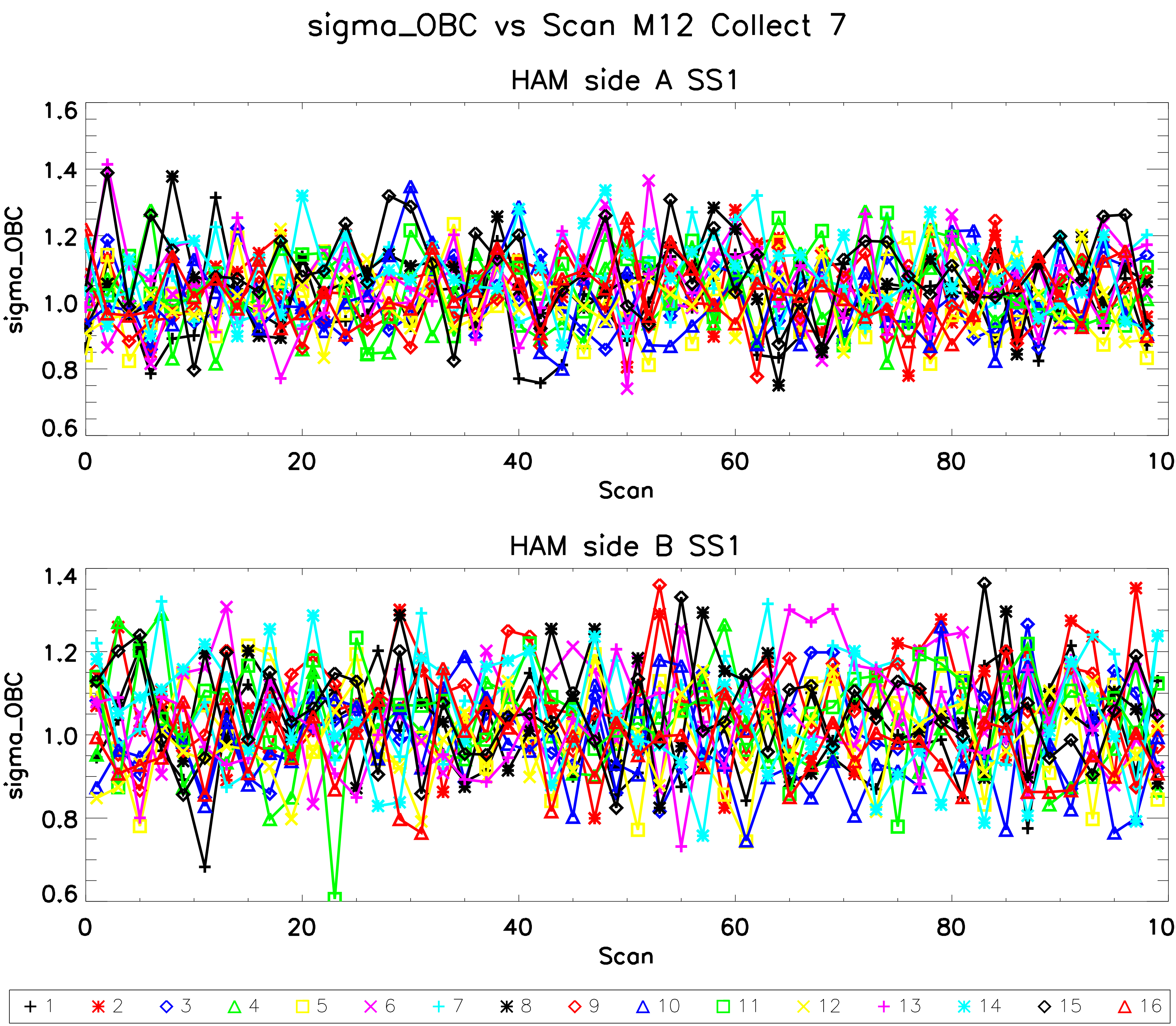
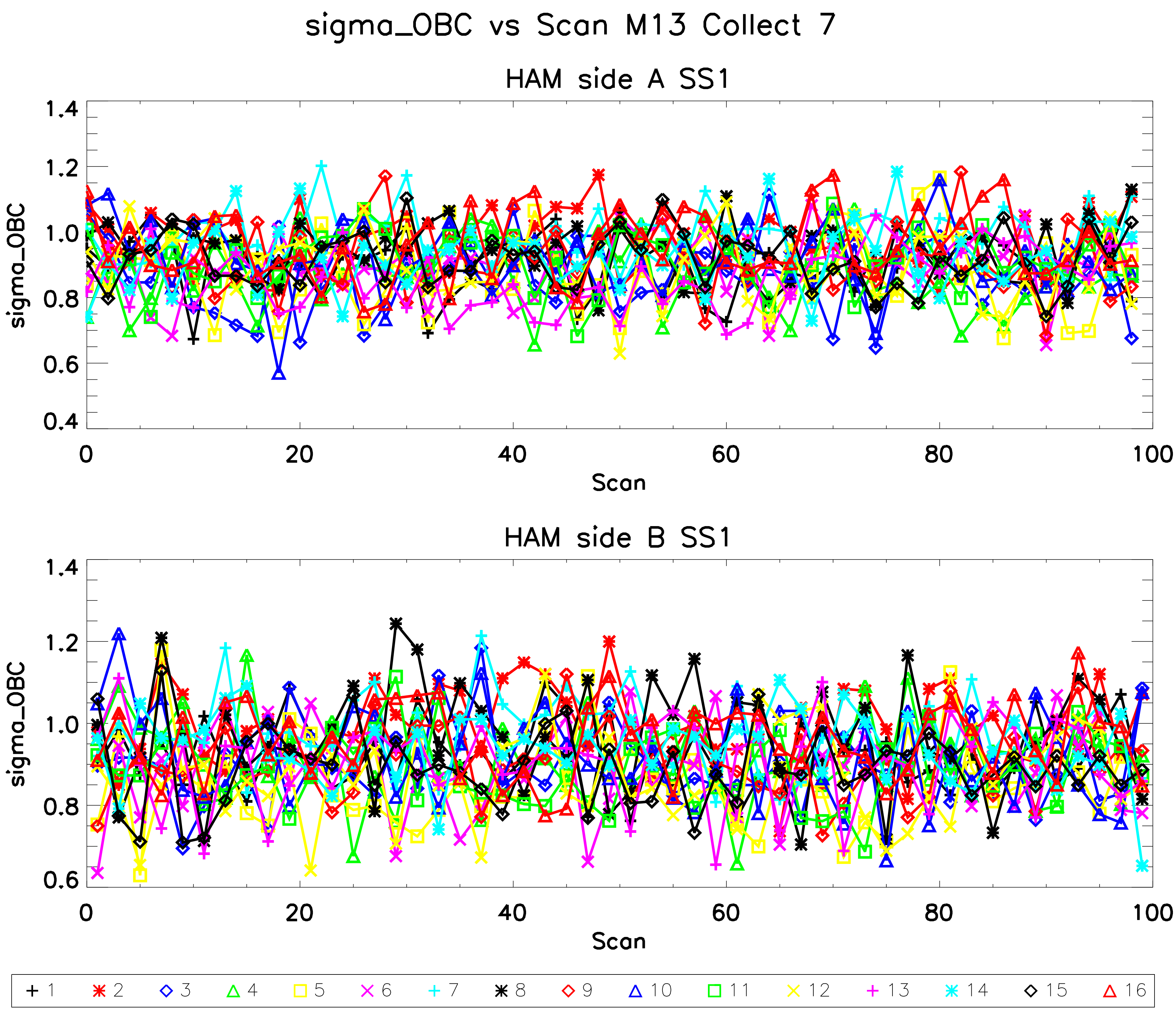
31
32

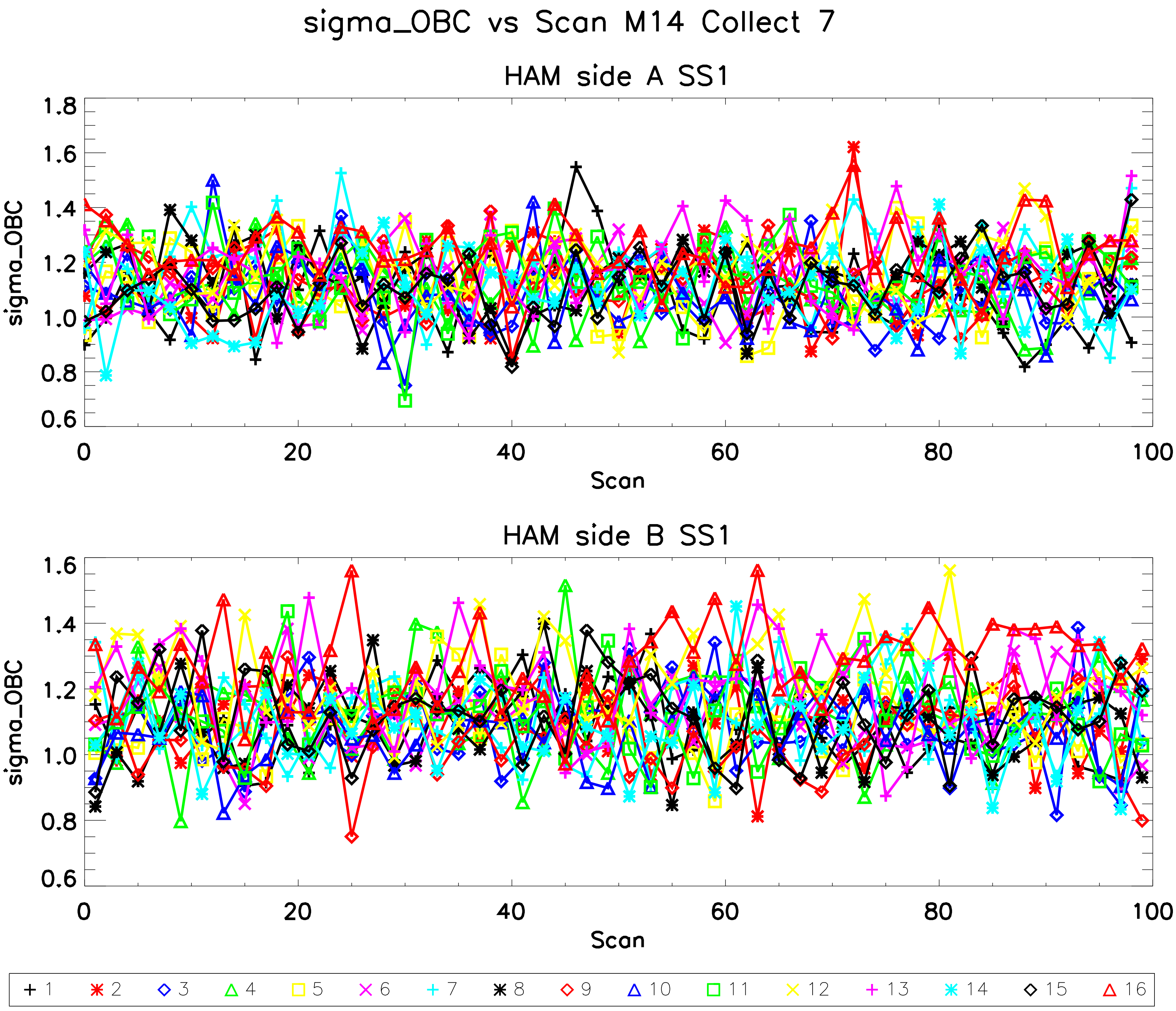

sigma_OBC vs Scan I5 Collect 7
HAM side A SS1
sigma_OBC
2.0
2.5
3.0
3.5
4.0
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
1.5
2.0
2.5
3.0
3.5
4.0
4.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✳ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✳ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✳ 32]

sigma_OBC vs Scan I5 Collect 7




sigma_OBC vs Scan M12 Collect 7
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

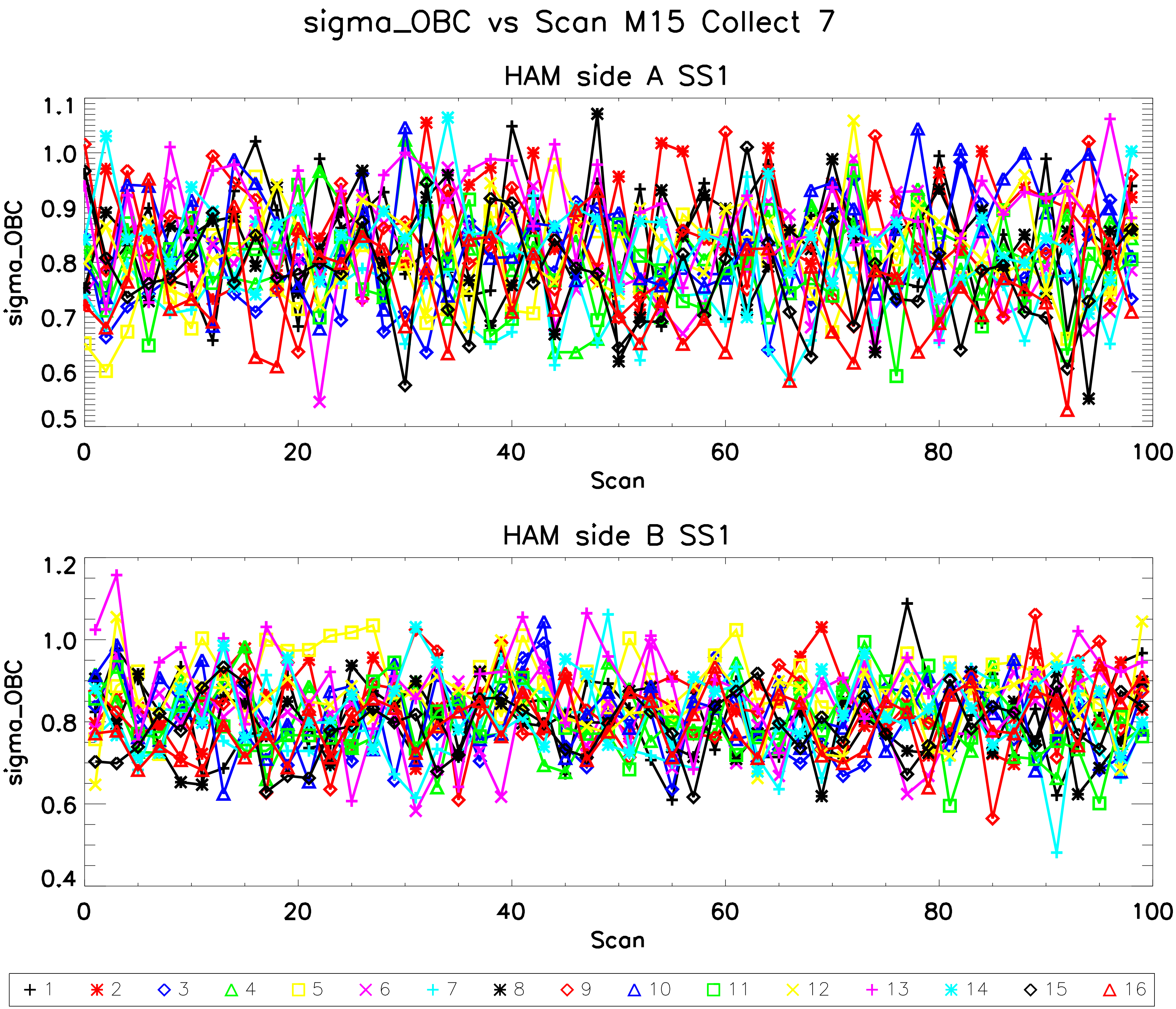

sigma_OBC vs Scan M13 Collect 7
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

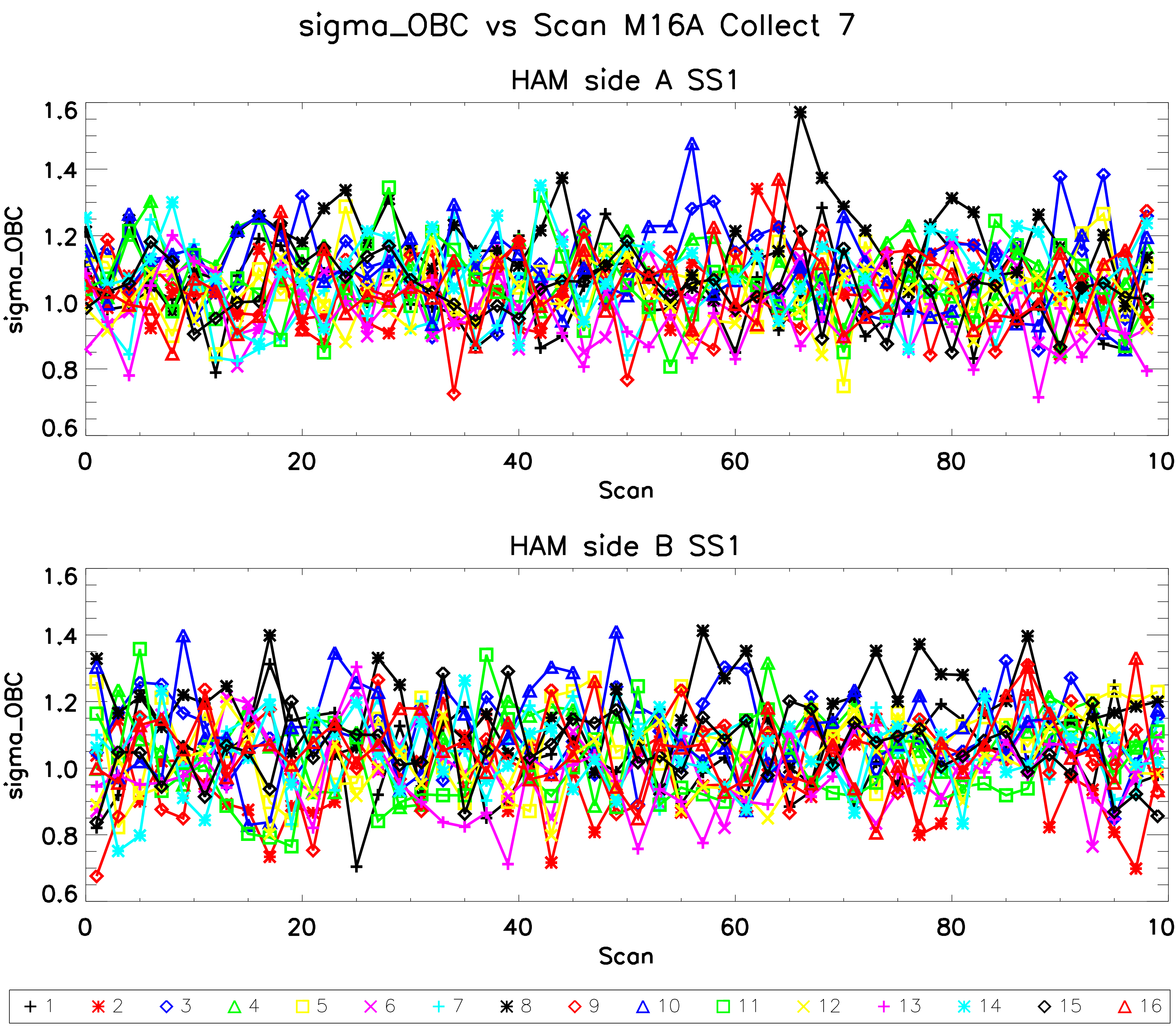


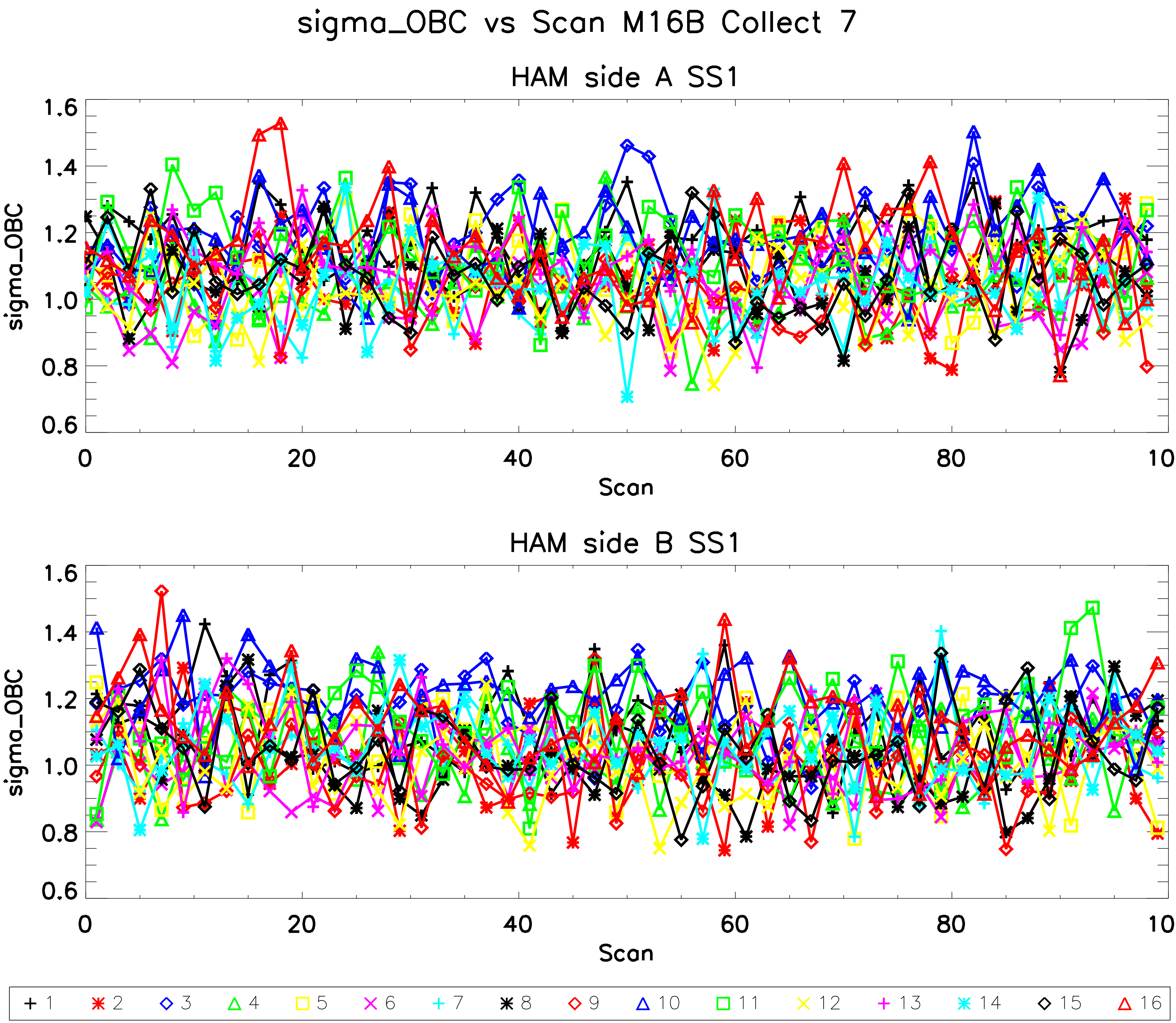
sigma_OBC vs Scan M14 Collect 7

HAM side A SS1

HAM side B SS1

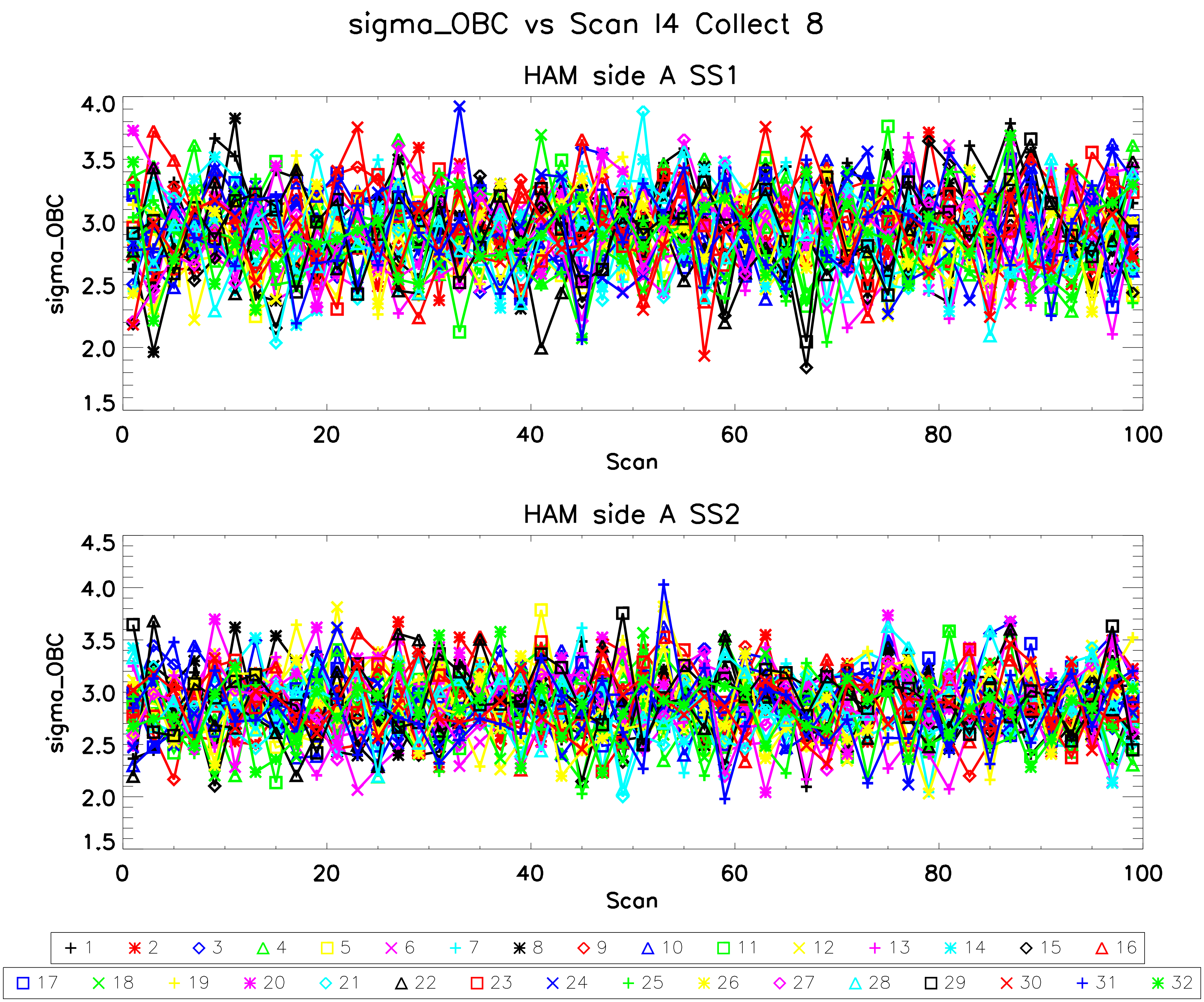

sigma_OBC vs Scan M15 Collect 7
HAM side A SS1
sigma_OBC
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

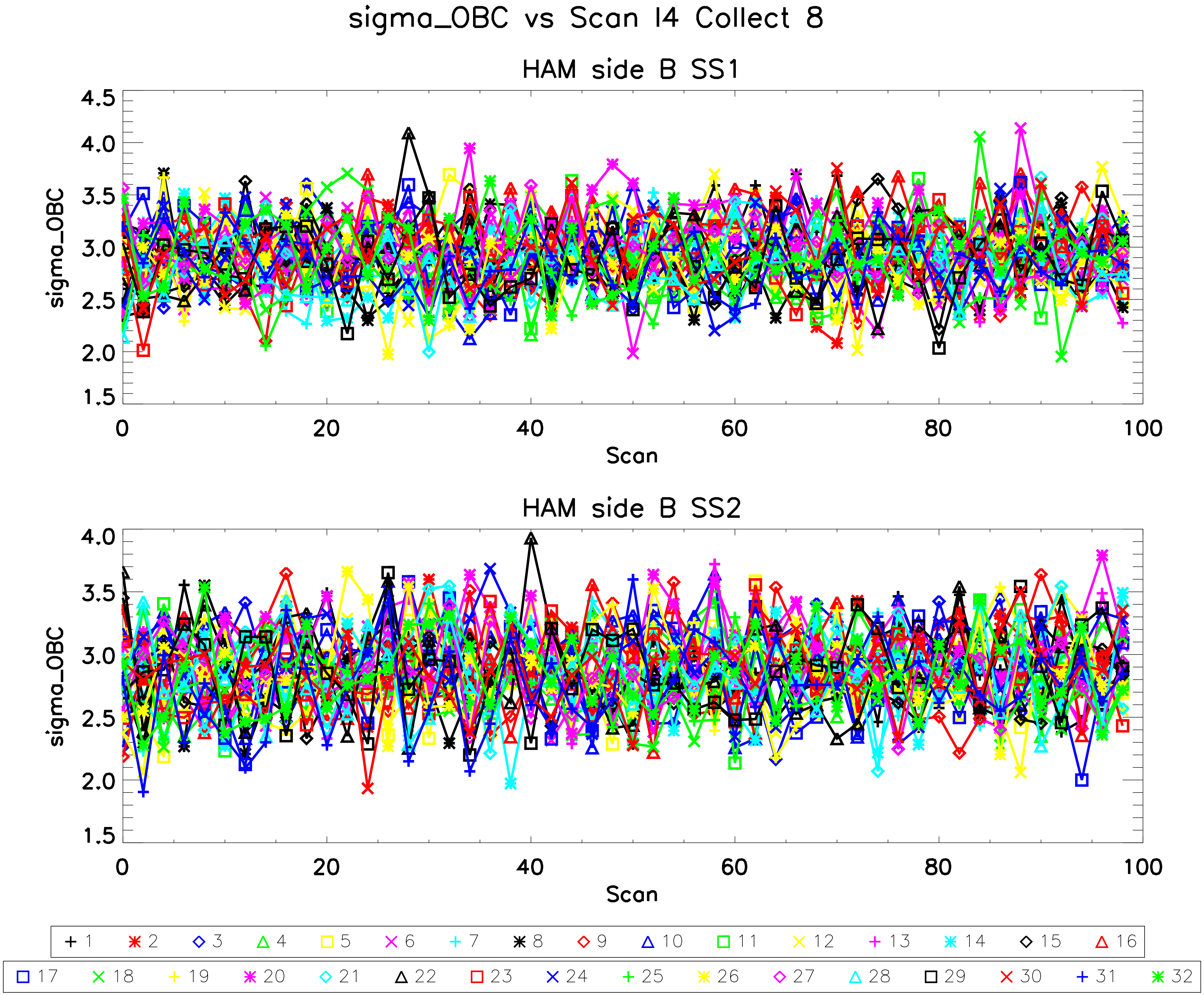

sigma_OBC vs Scan M16A Collect 7
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

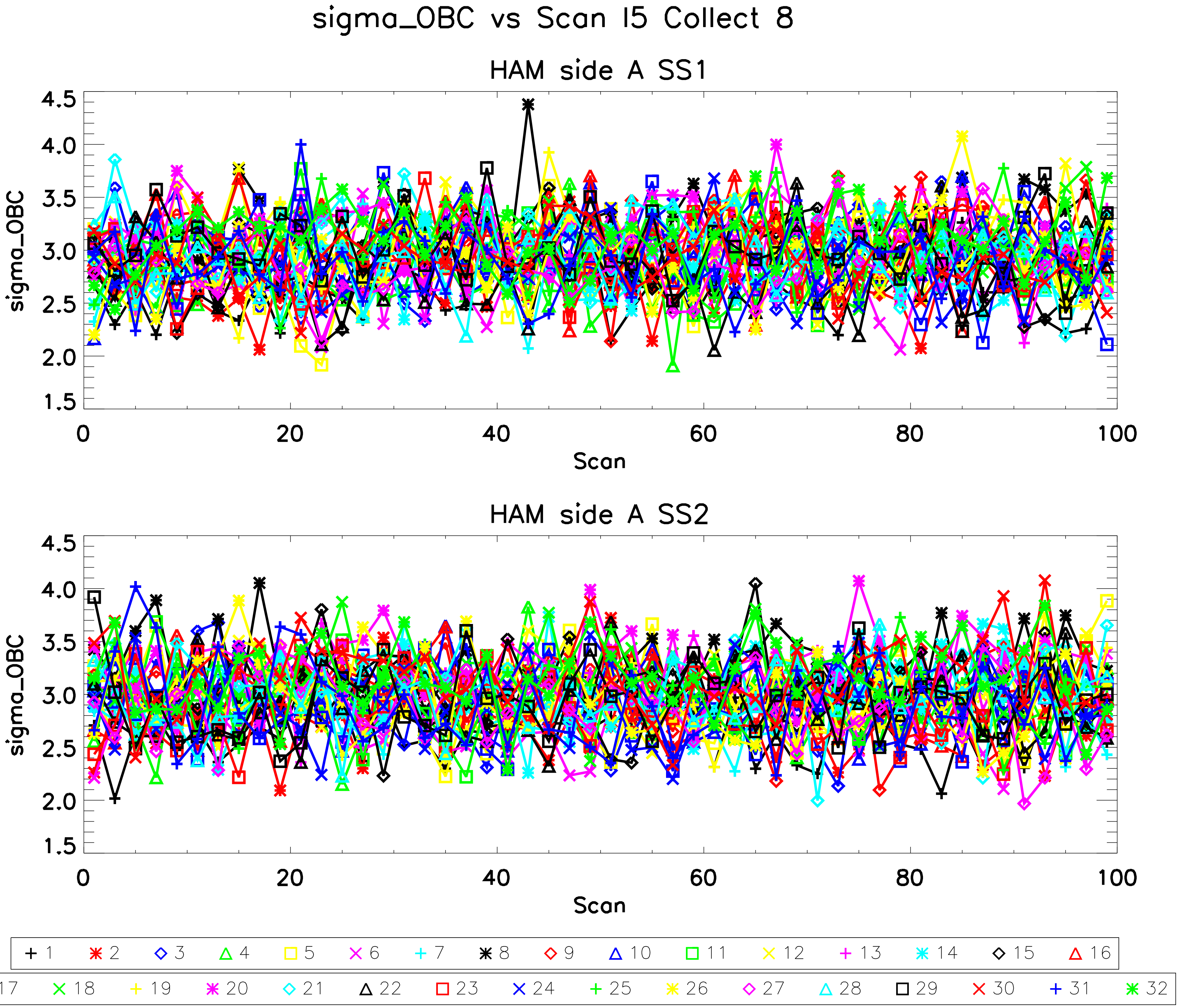

sigma_OBC vs Scan M16B Collect 7

HAM side A SS1

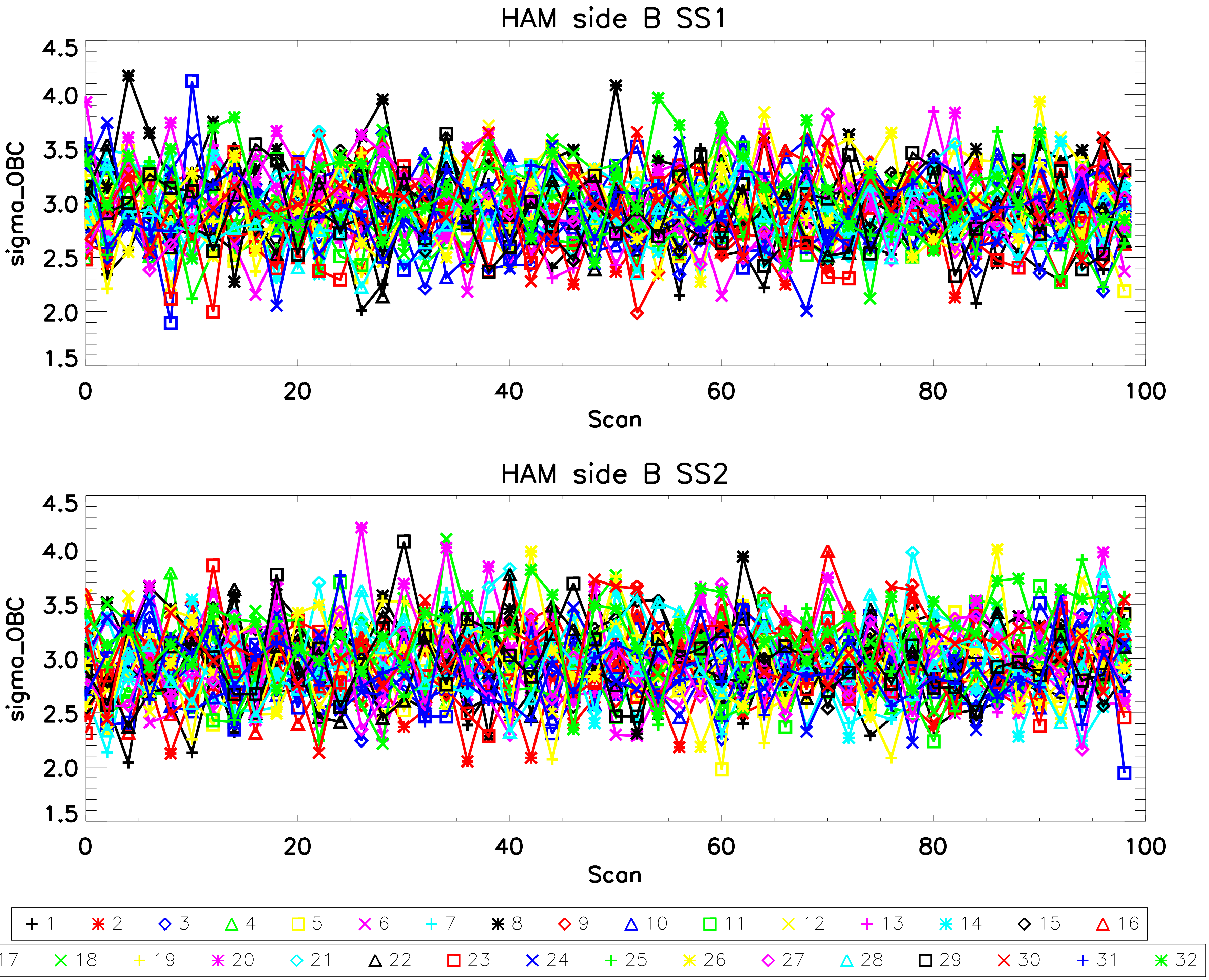
HAM side B SS1


sigma_OBC vs Scan I4 Collect 8
HAM side A SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

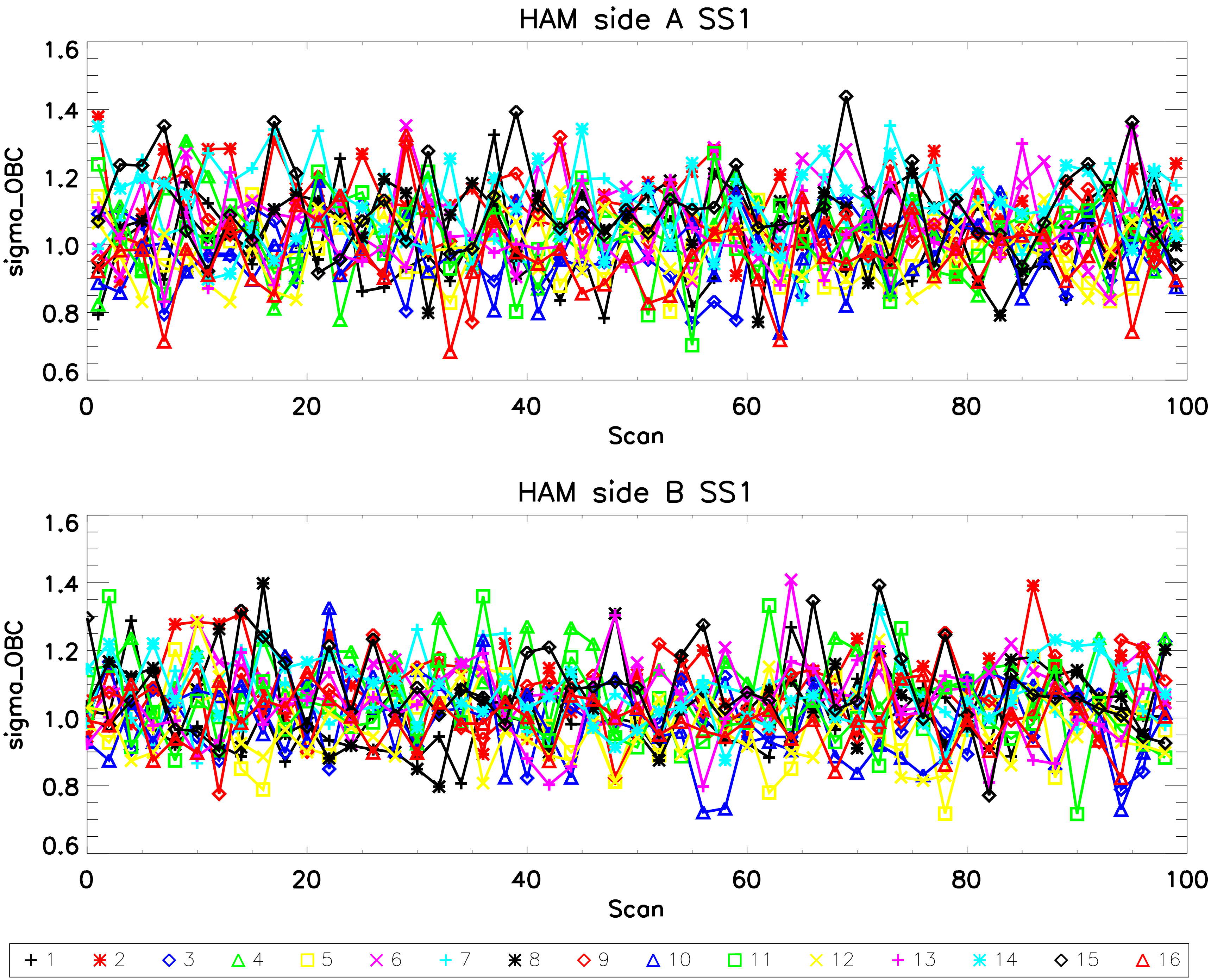

sigma_OBC vs Scan I4 Collect 8
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

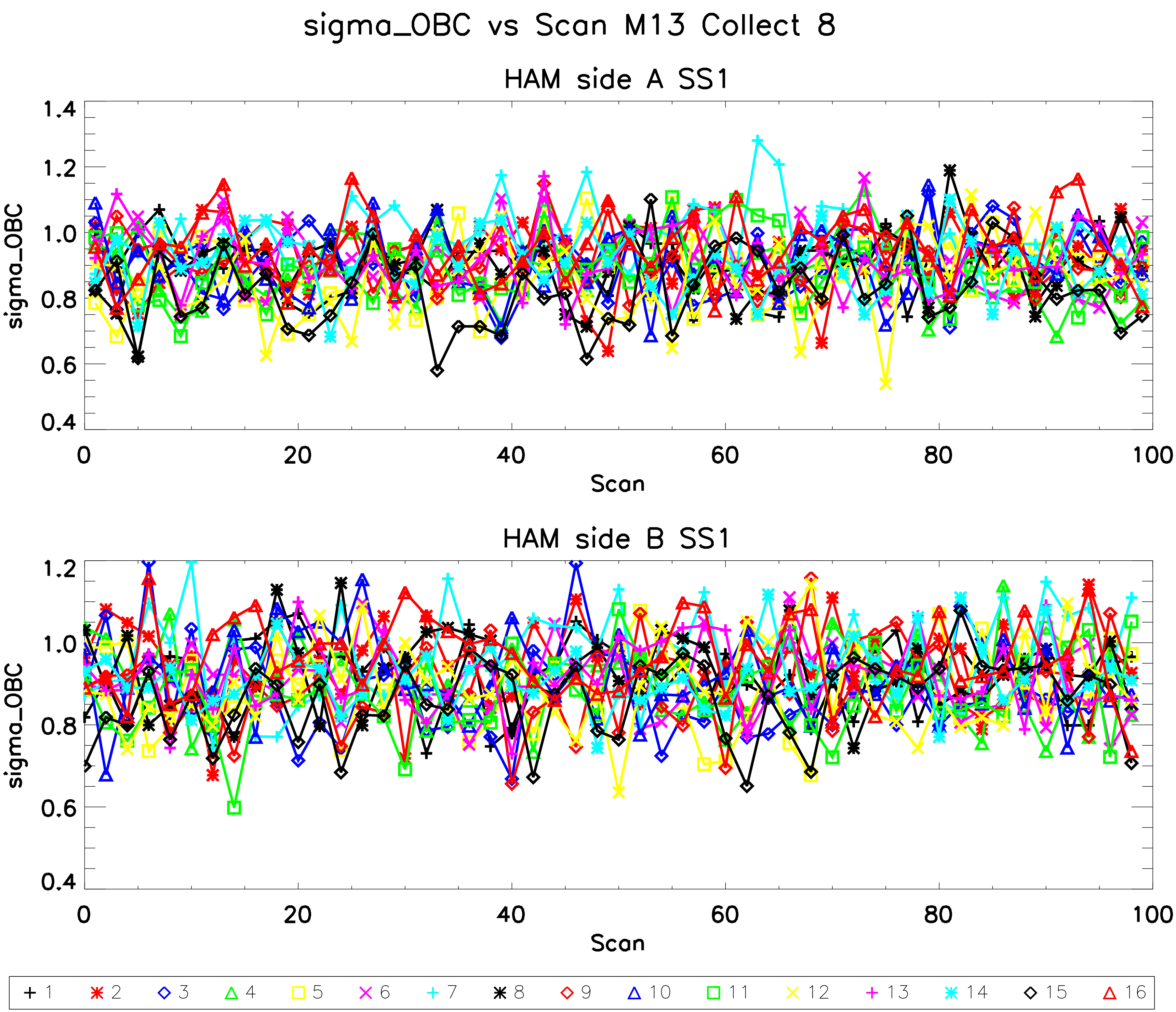

sigma_OBC vs Scan I5 Collect 8
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

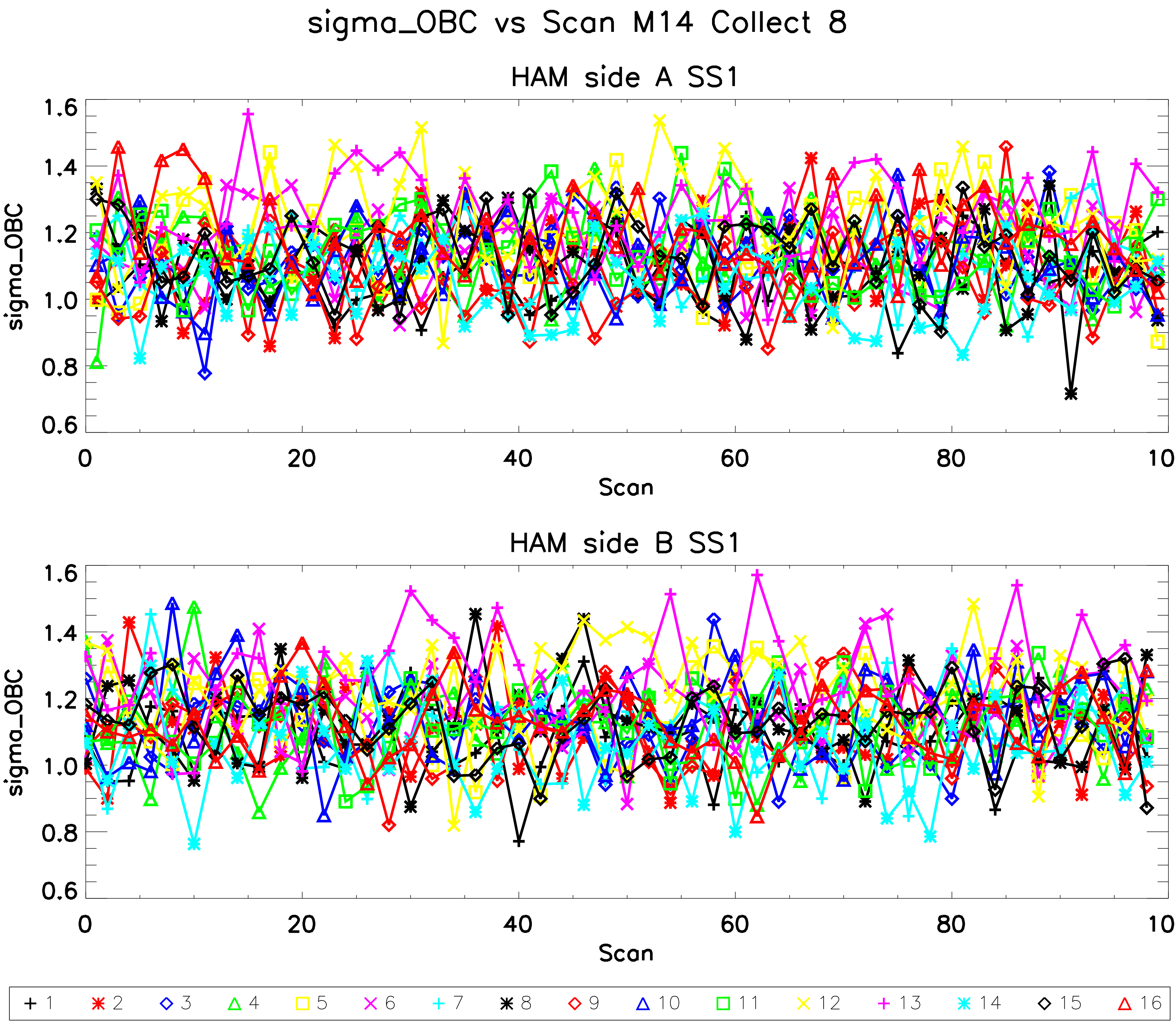
sigma_OBC vs Scan I5 Collect 8

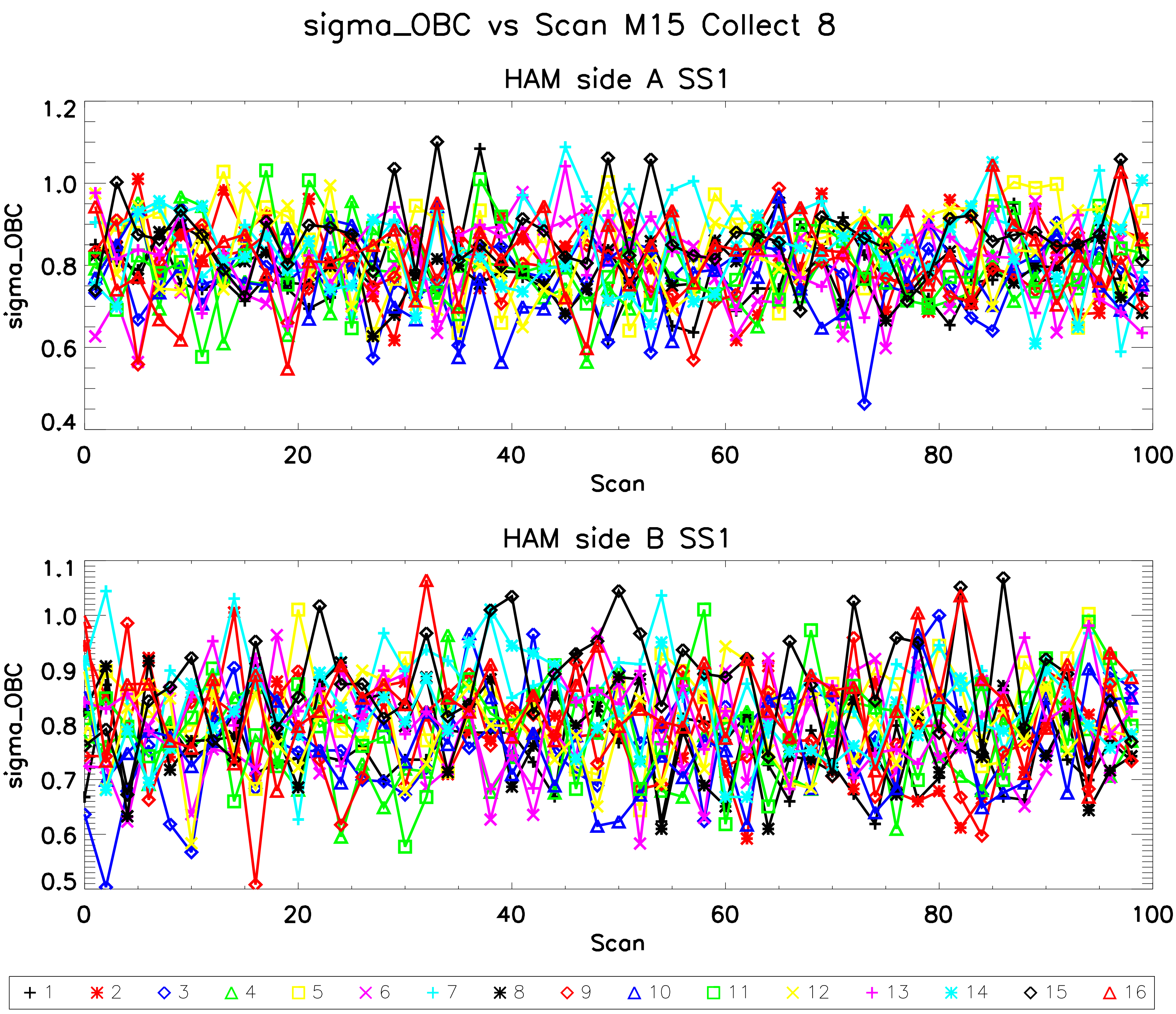


sigma_OBC vs Scan M12 Collect 8

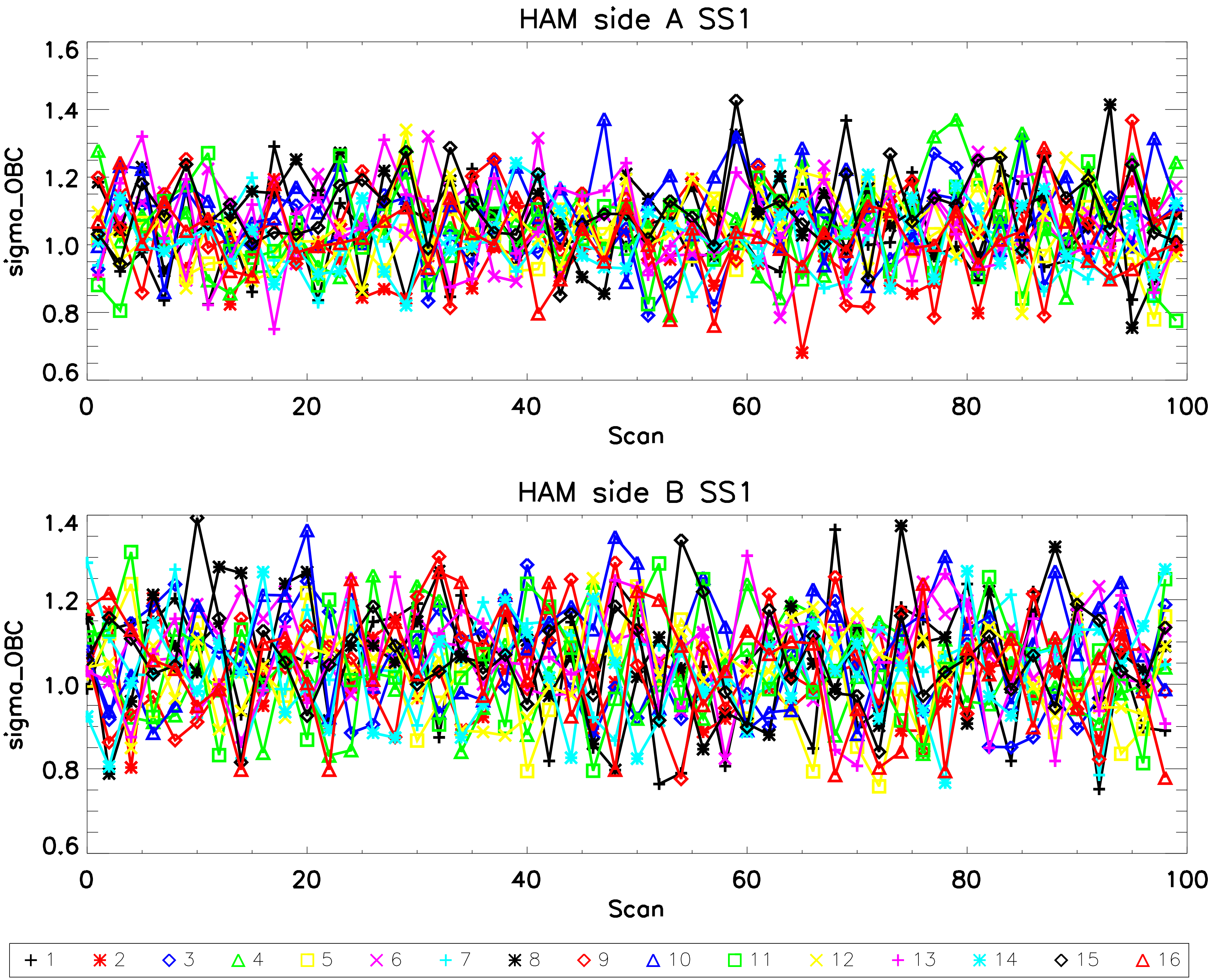


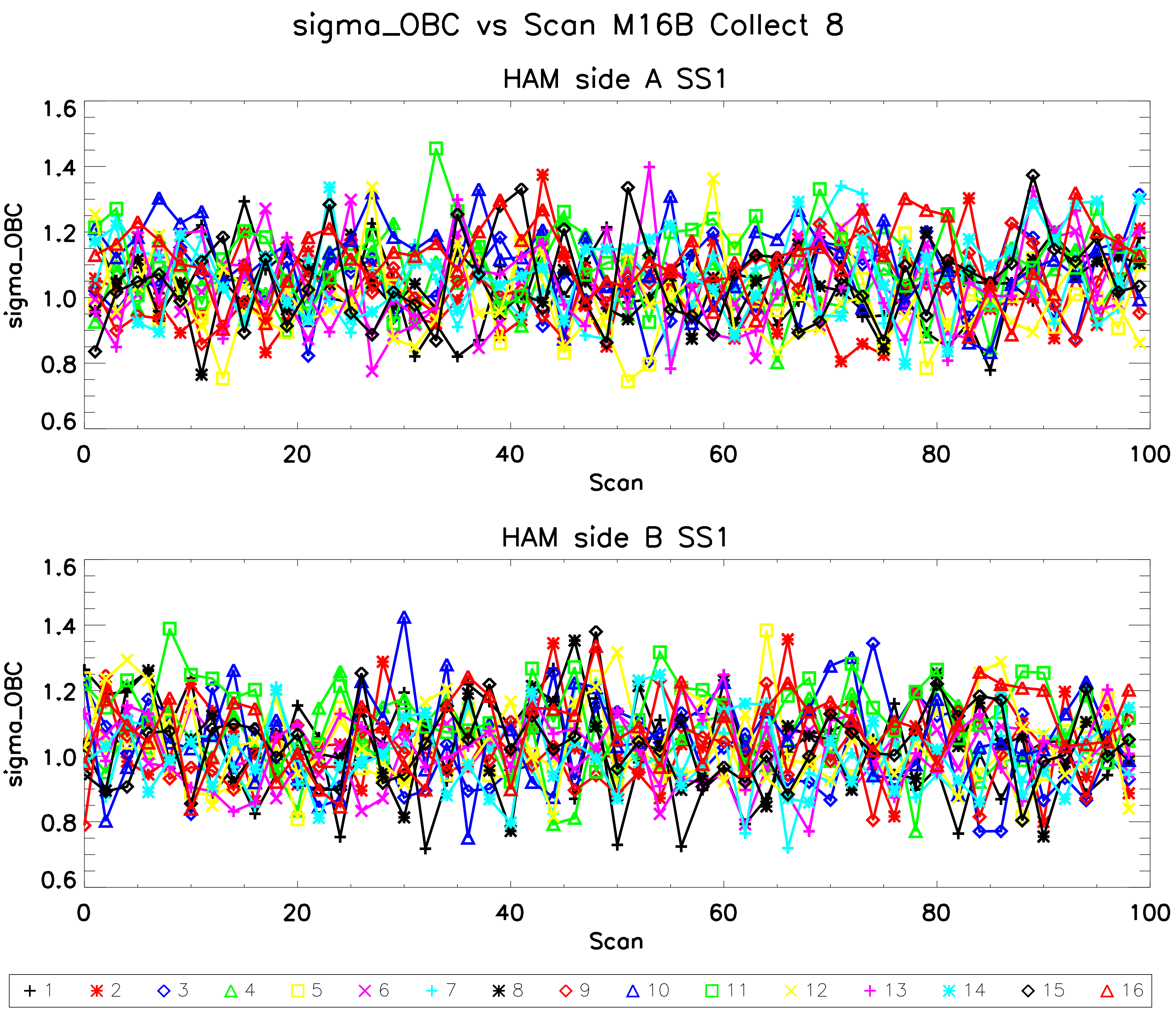

sigma_OBC vs Scan M13 Collect 8
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

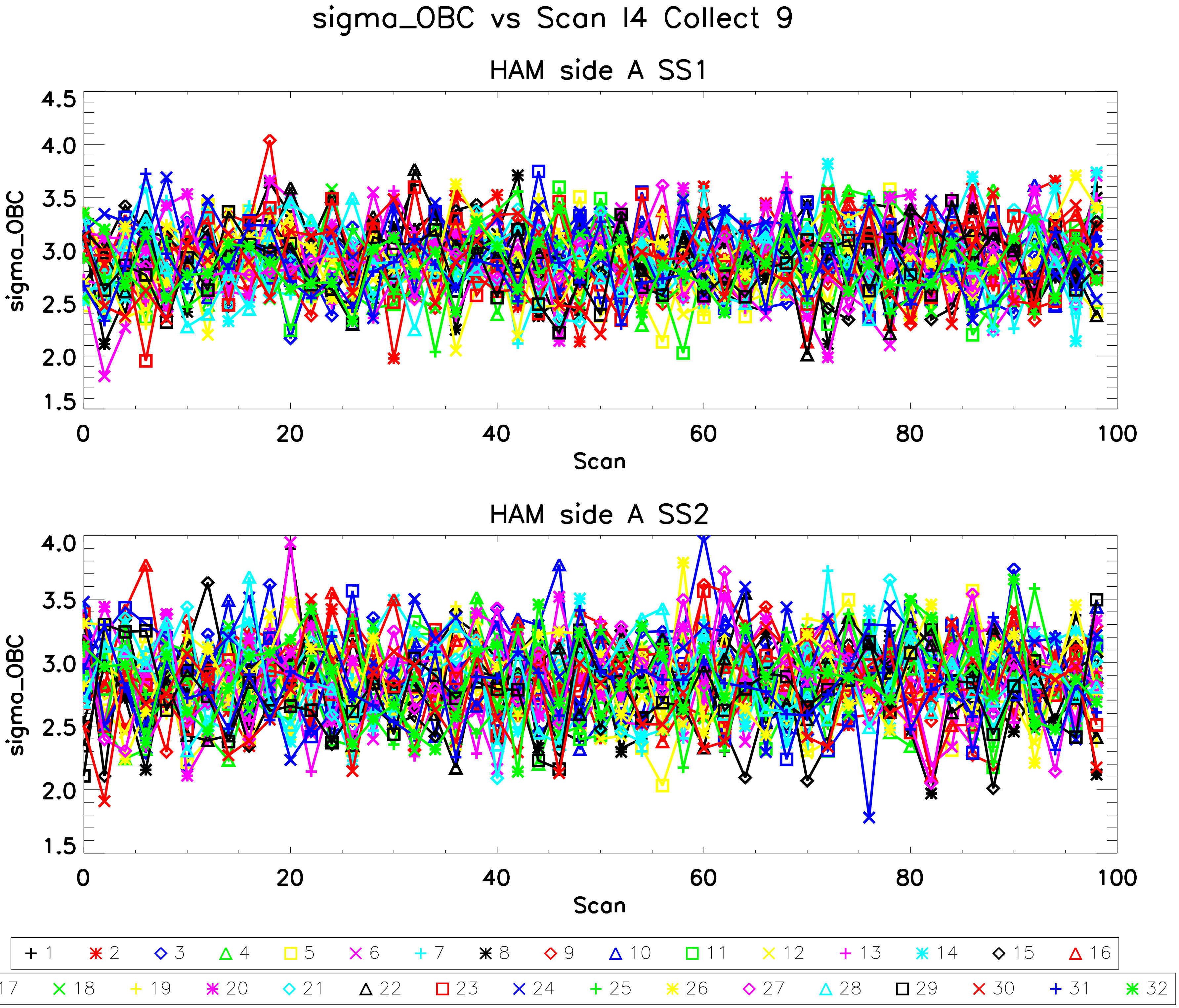

sigma_OBC vs Scan M14 Collect 8
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

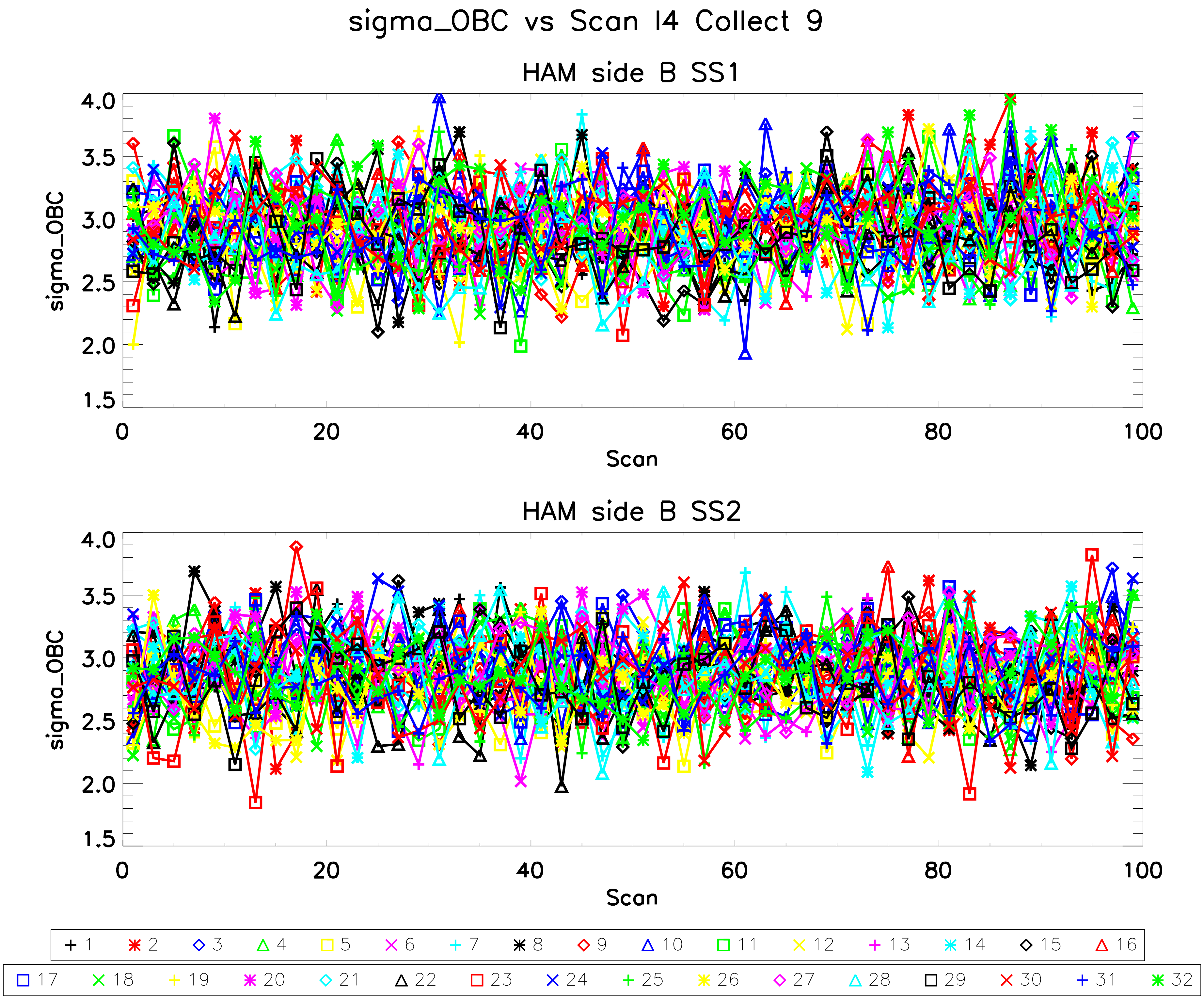

sigma_OBC vs Scan M15 Collect 8
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

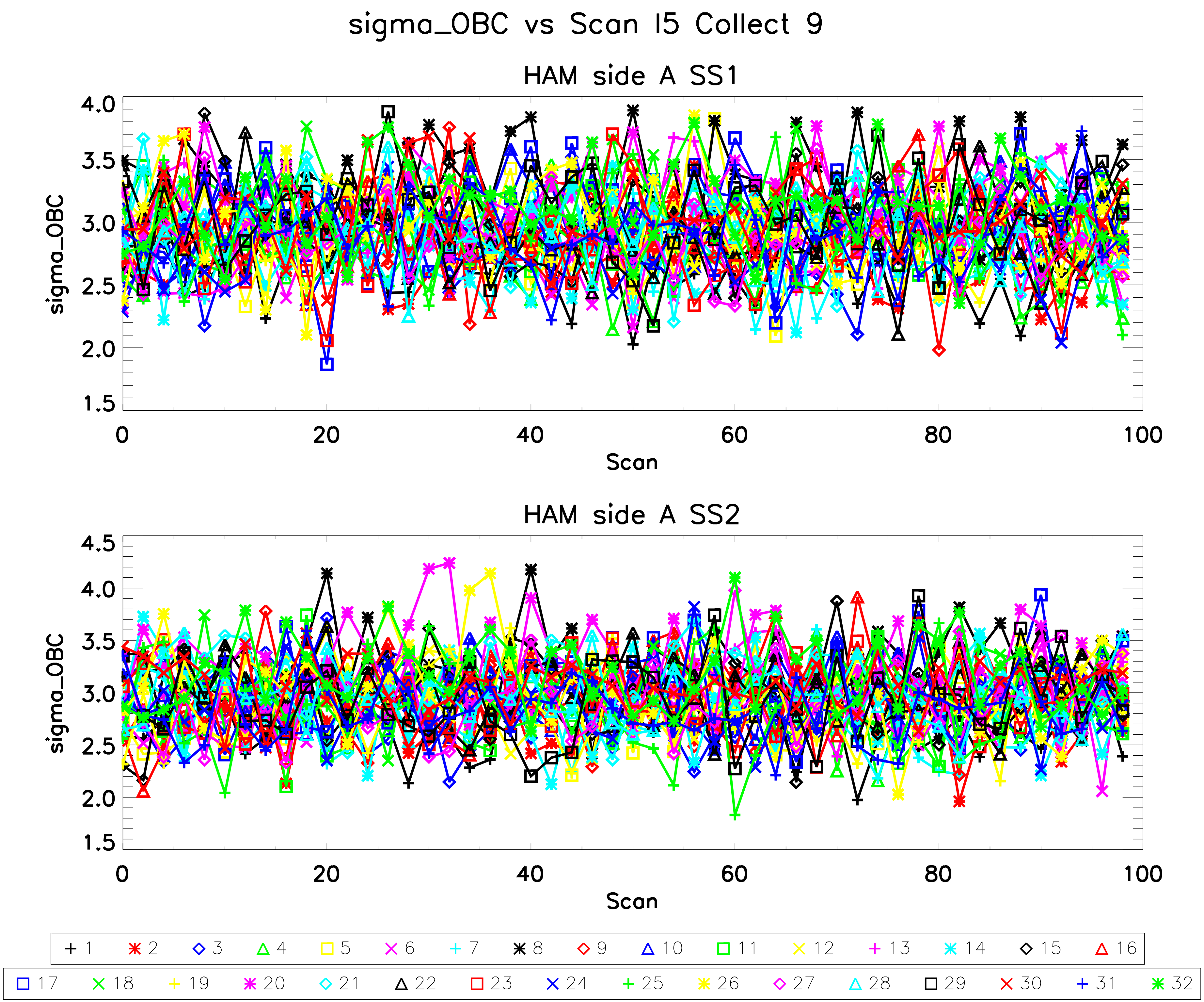
sigma_OBC vs Scan M16A Collect 8



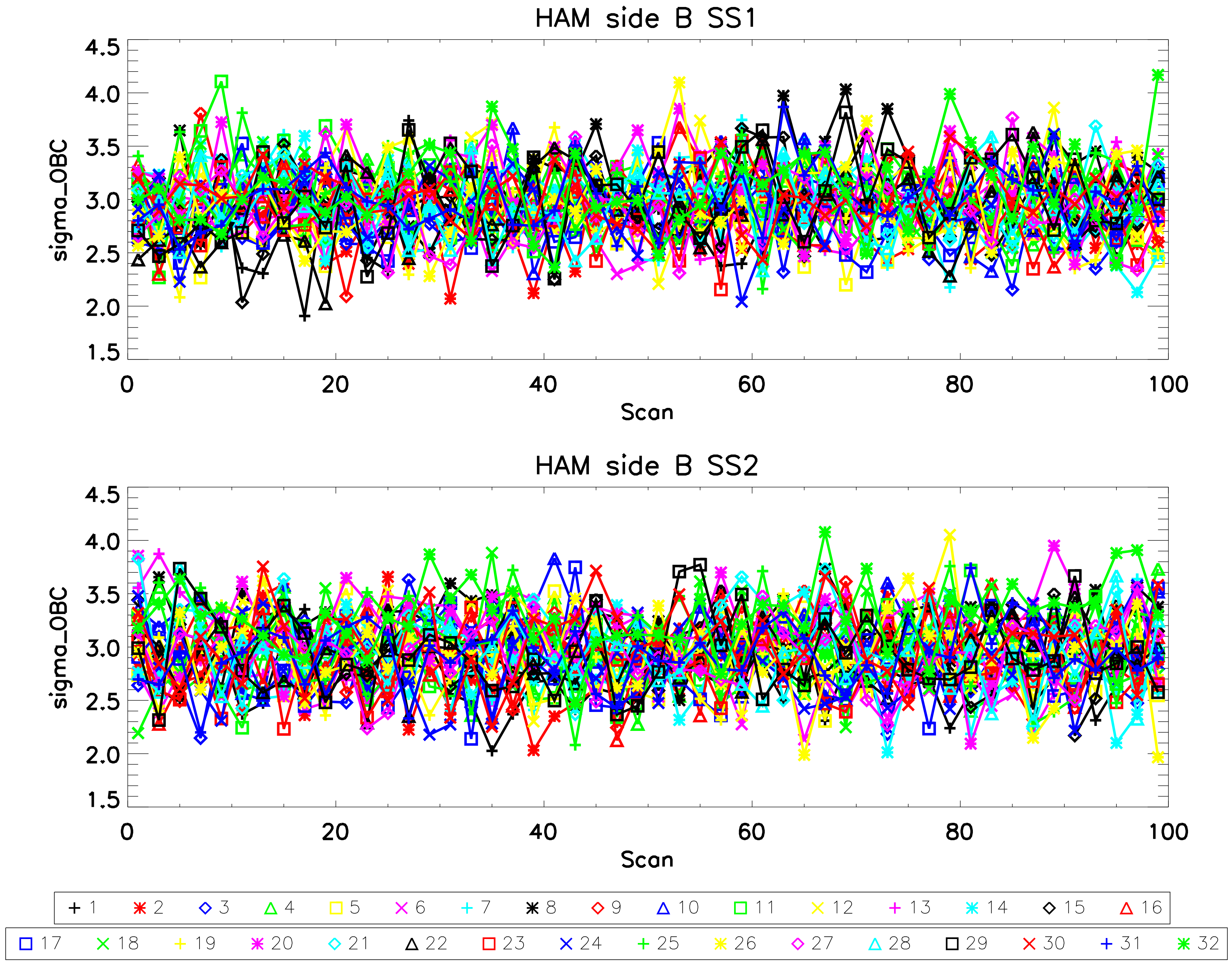

sigma_OBC vs Scan M16B Collect 8
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan I4 Collect 9
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

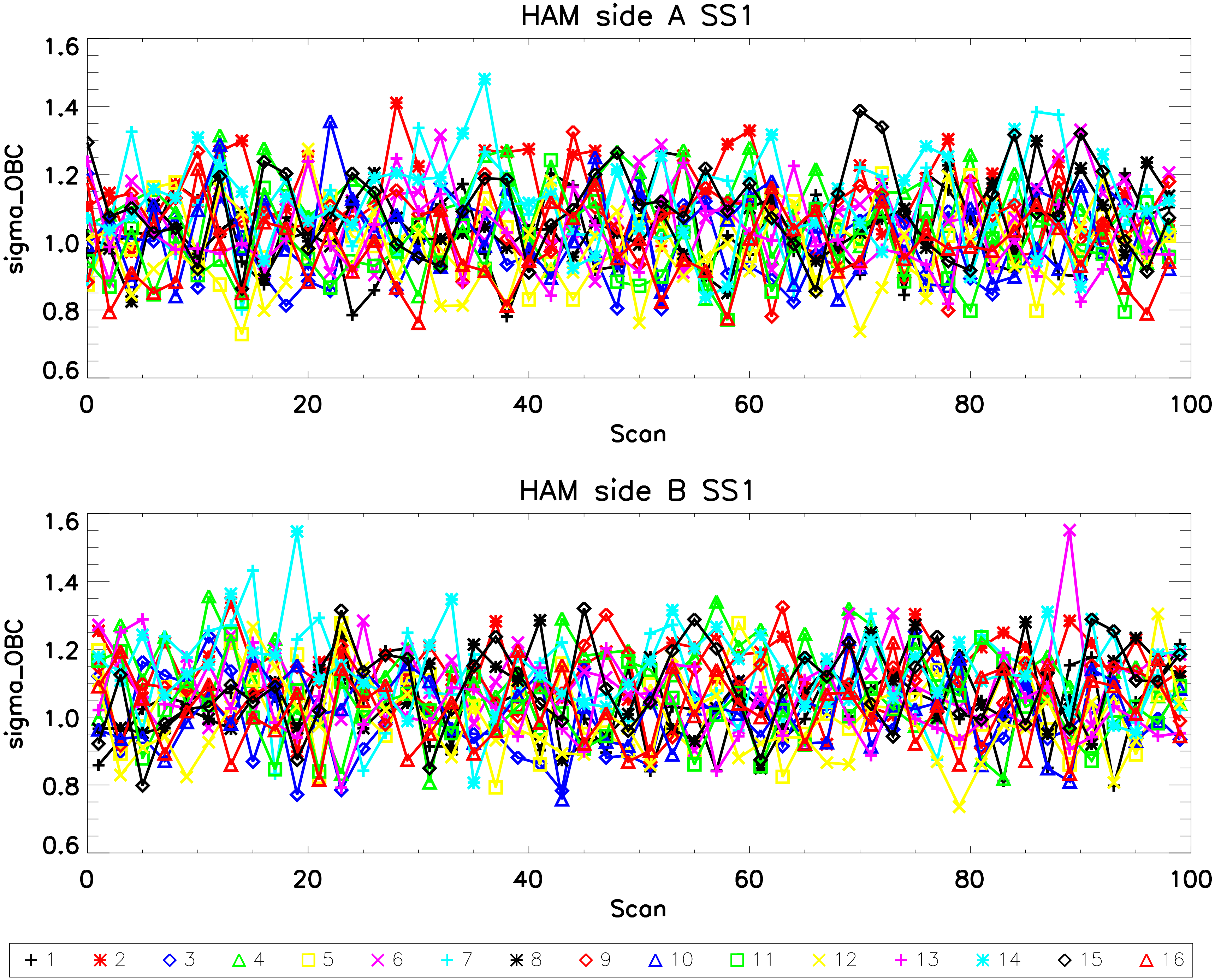

sigma_OBC vs Scan I4 Collect 9
HAM side B SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✳ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✳ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✳ 32

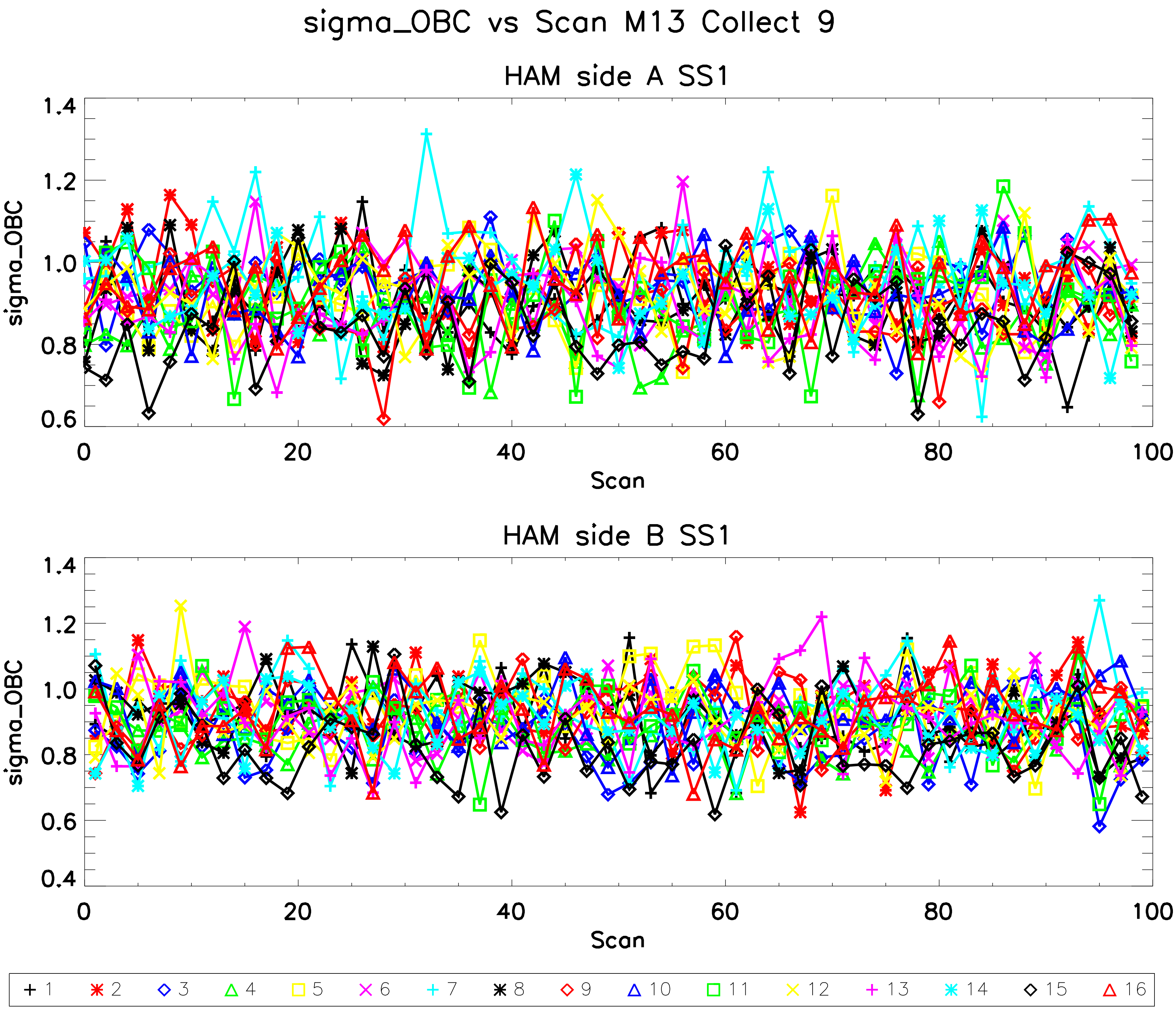

sigma_OBC vs Scan I5 Collect 9
HAM side A SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

sigma_OBC vs Scan I5 Collect 9

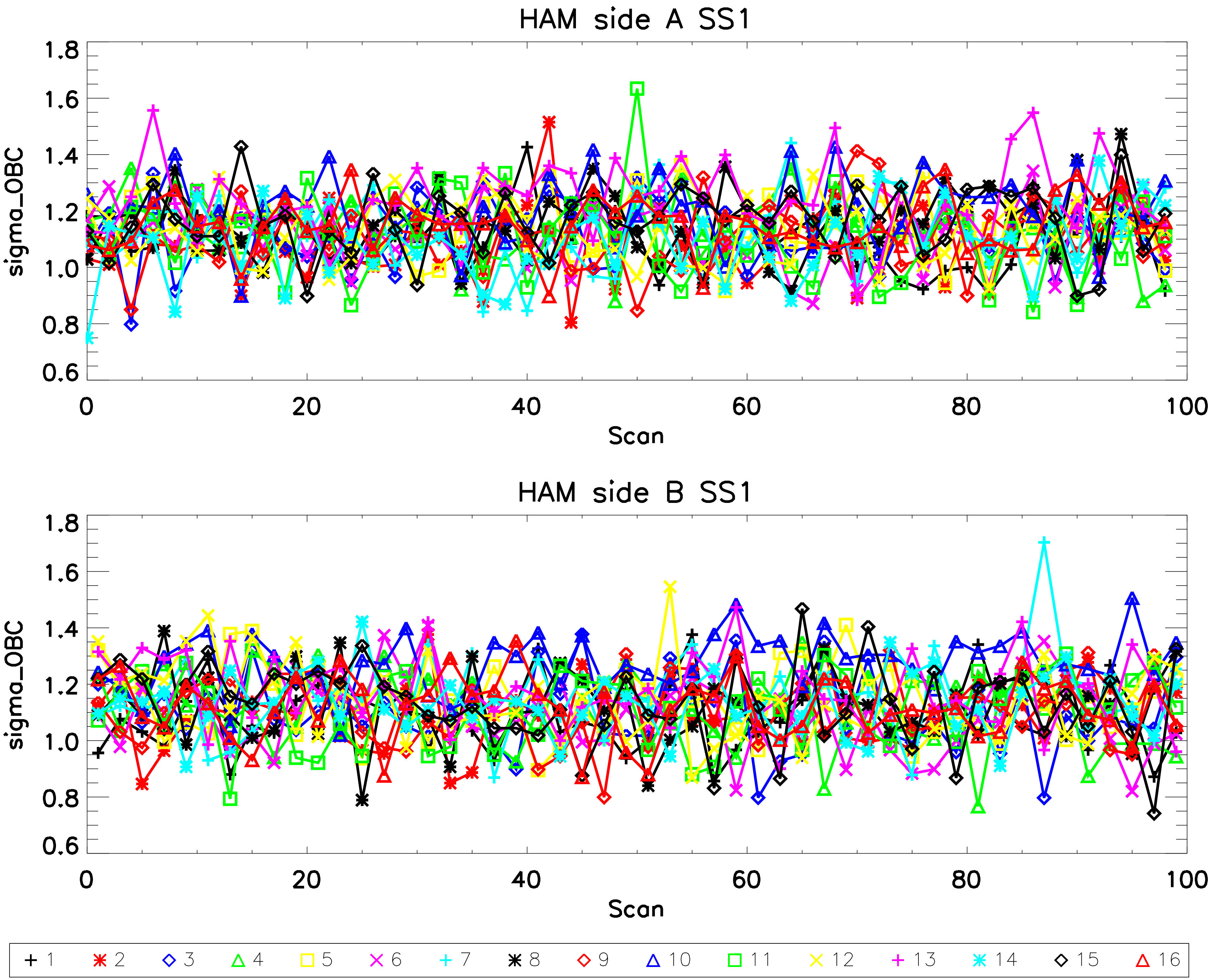


# sigma_OBC vs Scan M12 Collect 9

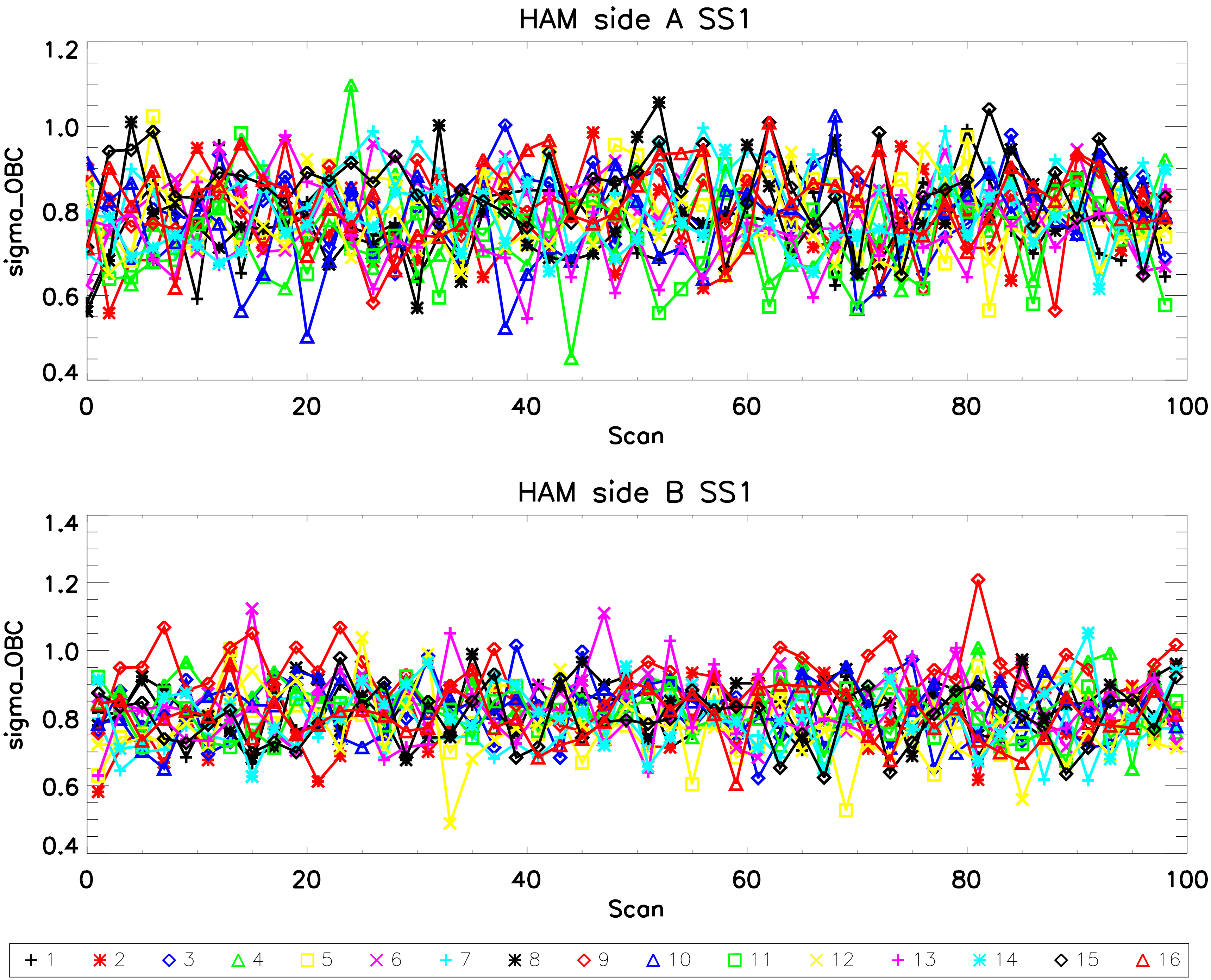



sigma_OBC vs Scan M13 Collect 9
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

sigma_OBC vs Scan M14 Collect 9



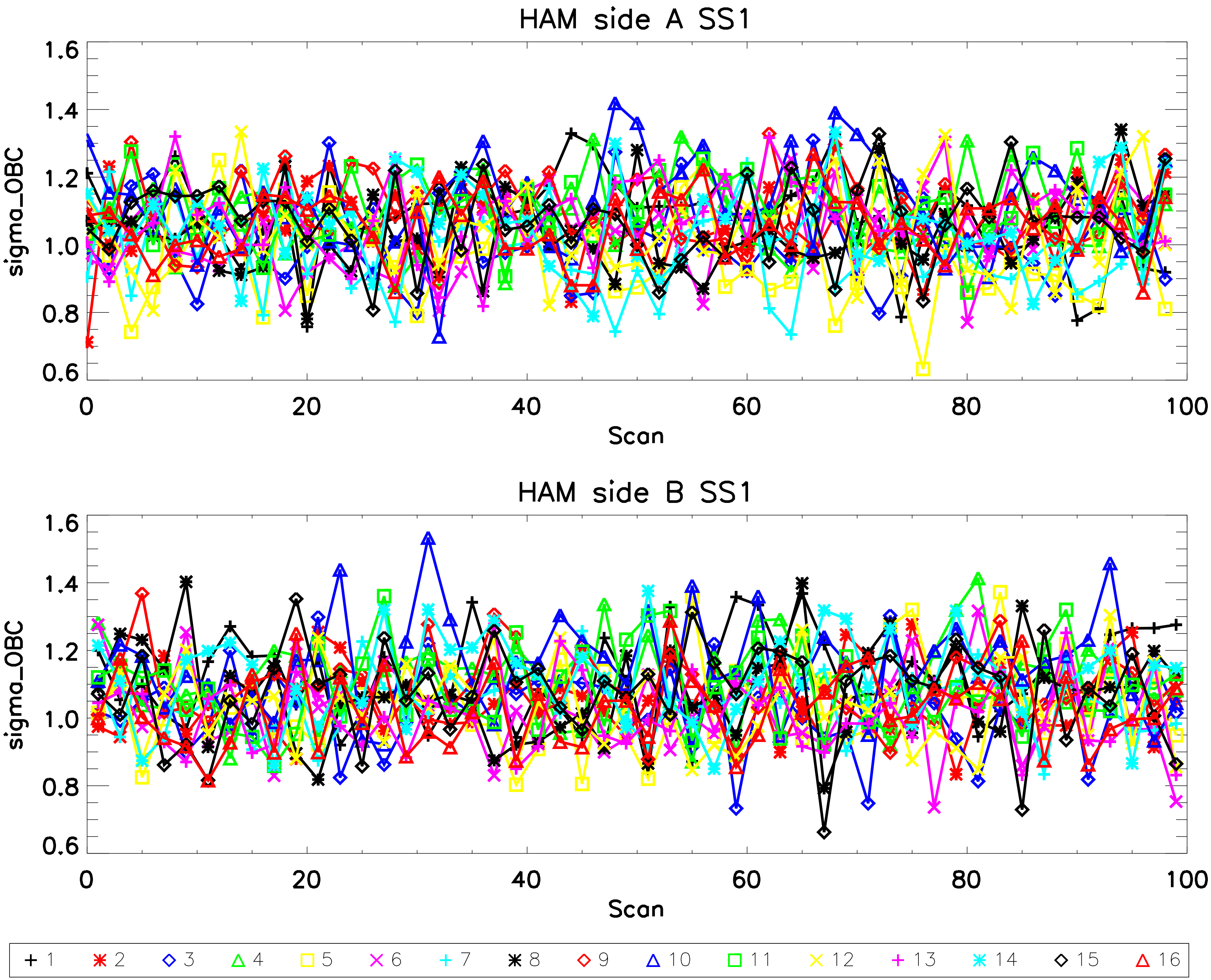
sigma_OBC vs Scan M15 Collect 9



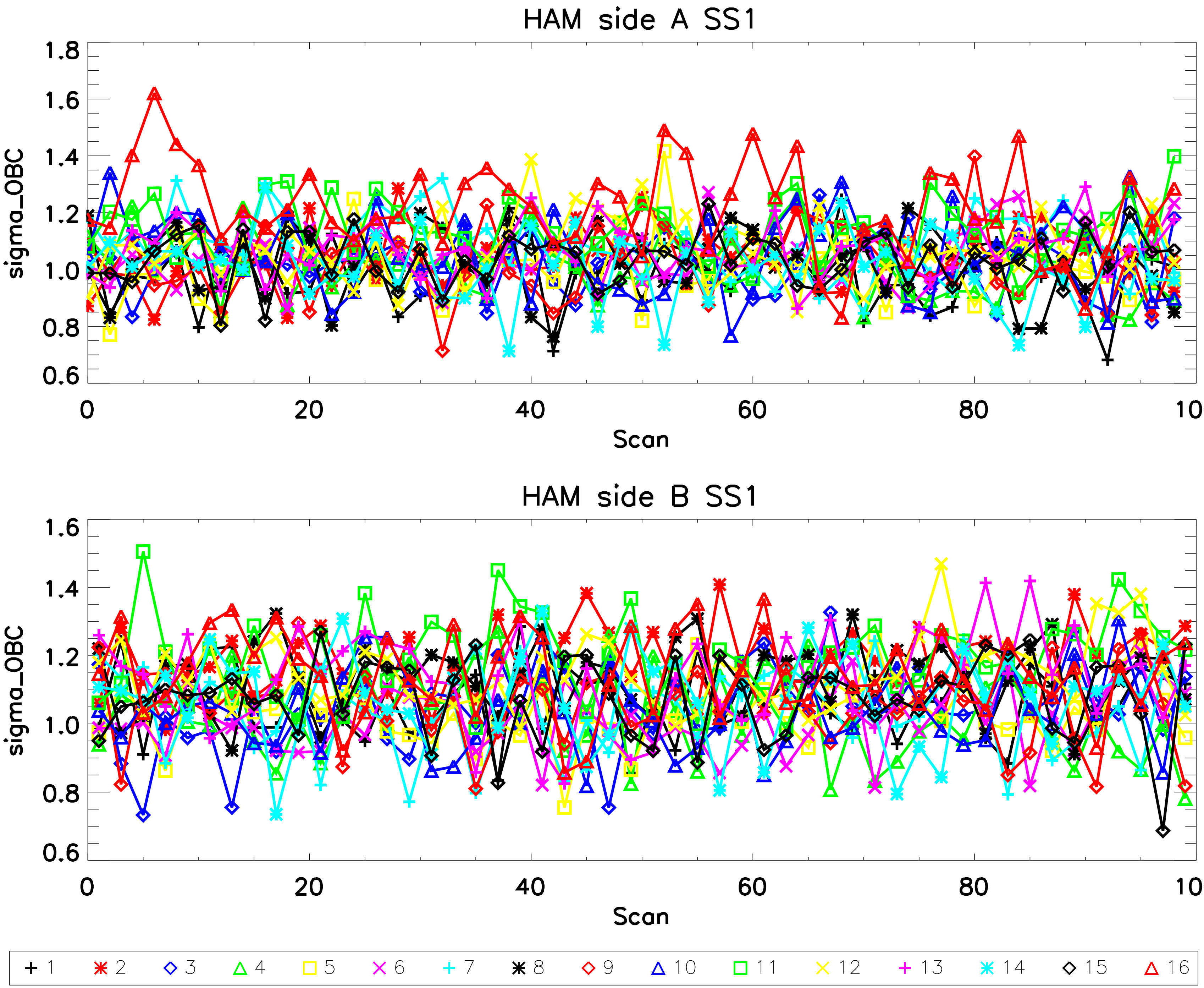
HAM side A SS1

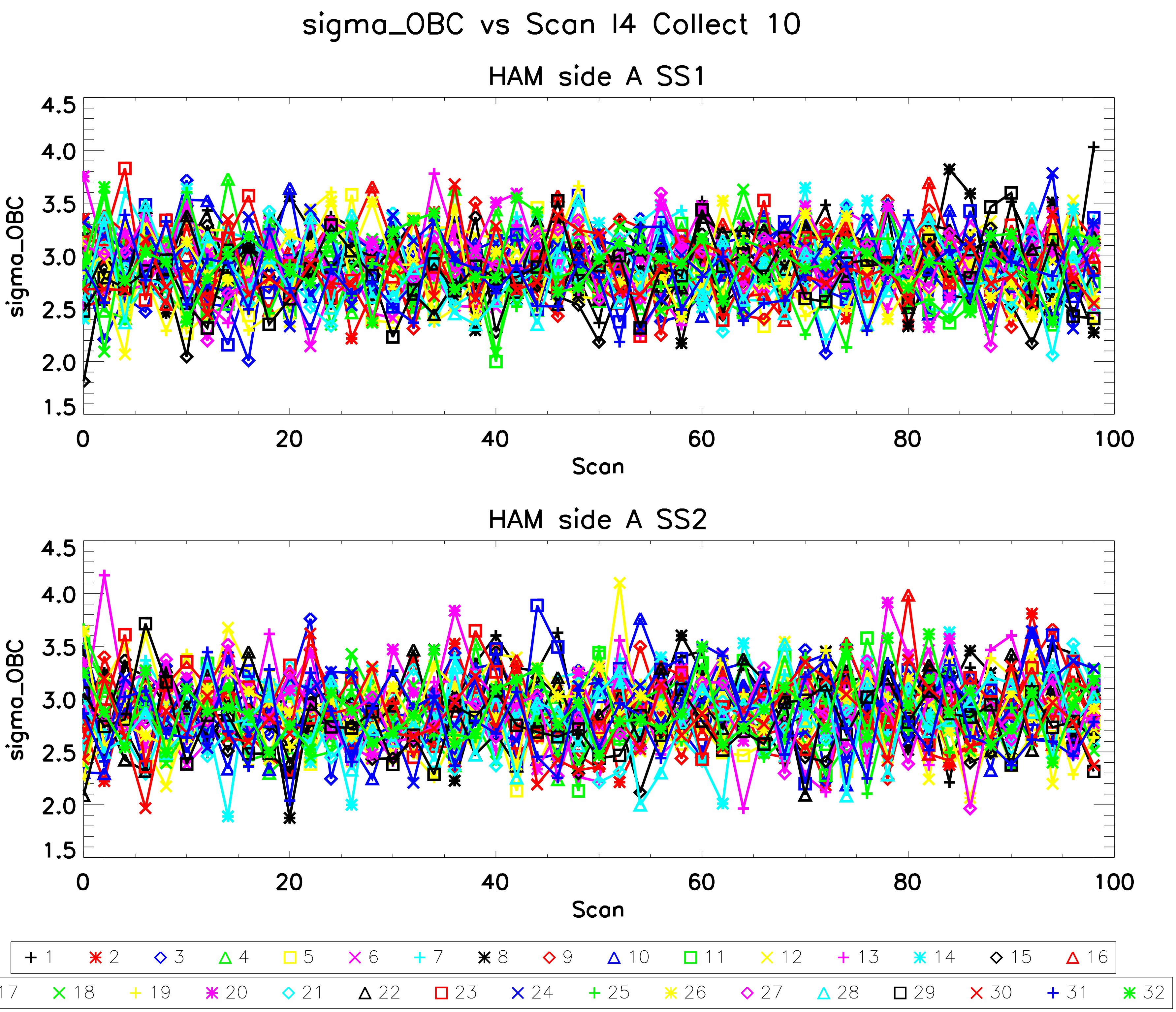
HAM side B SS1

sigma_OBC vs Scan M16A Collect 9

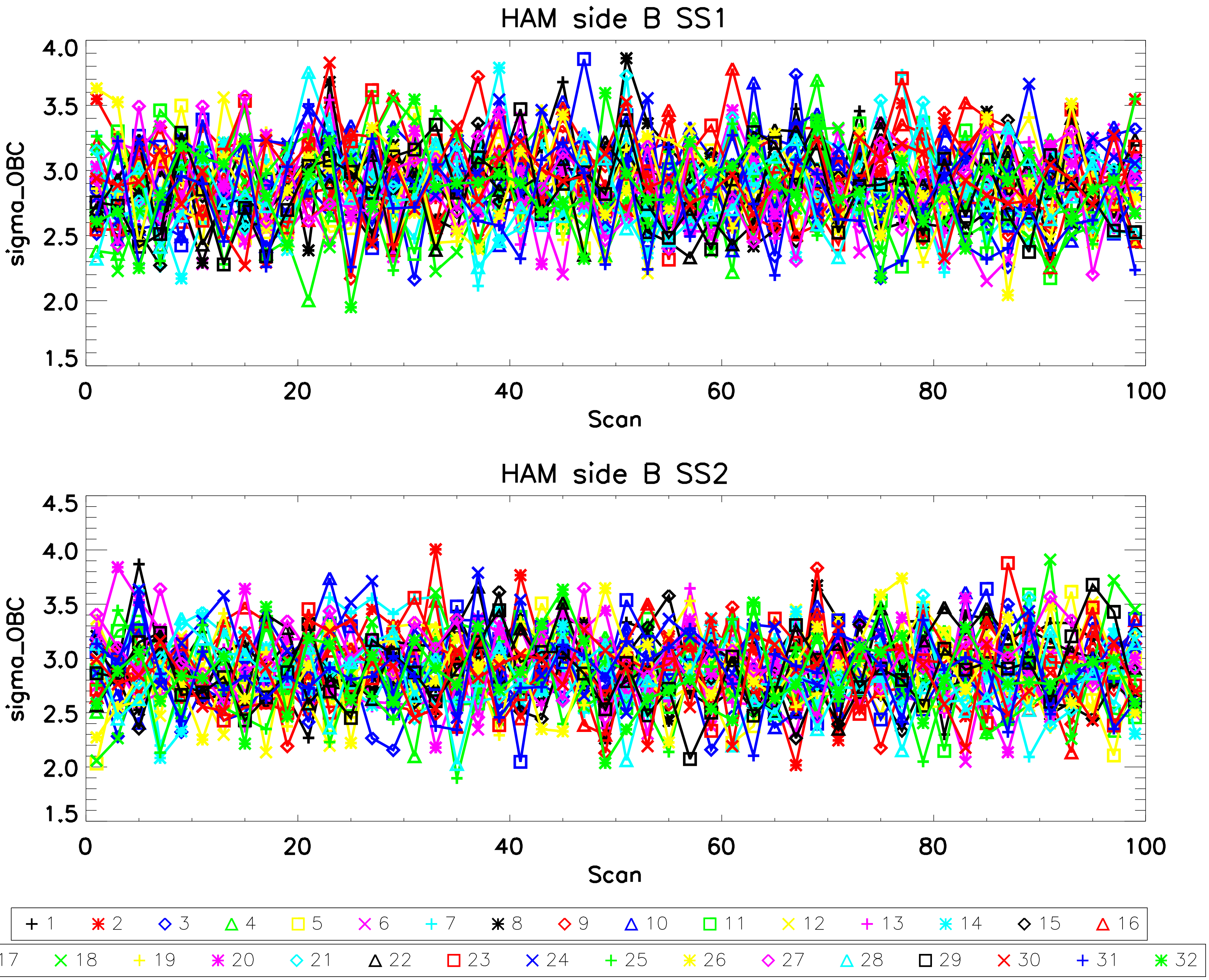


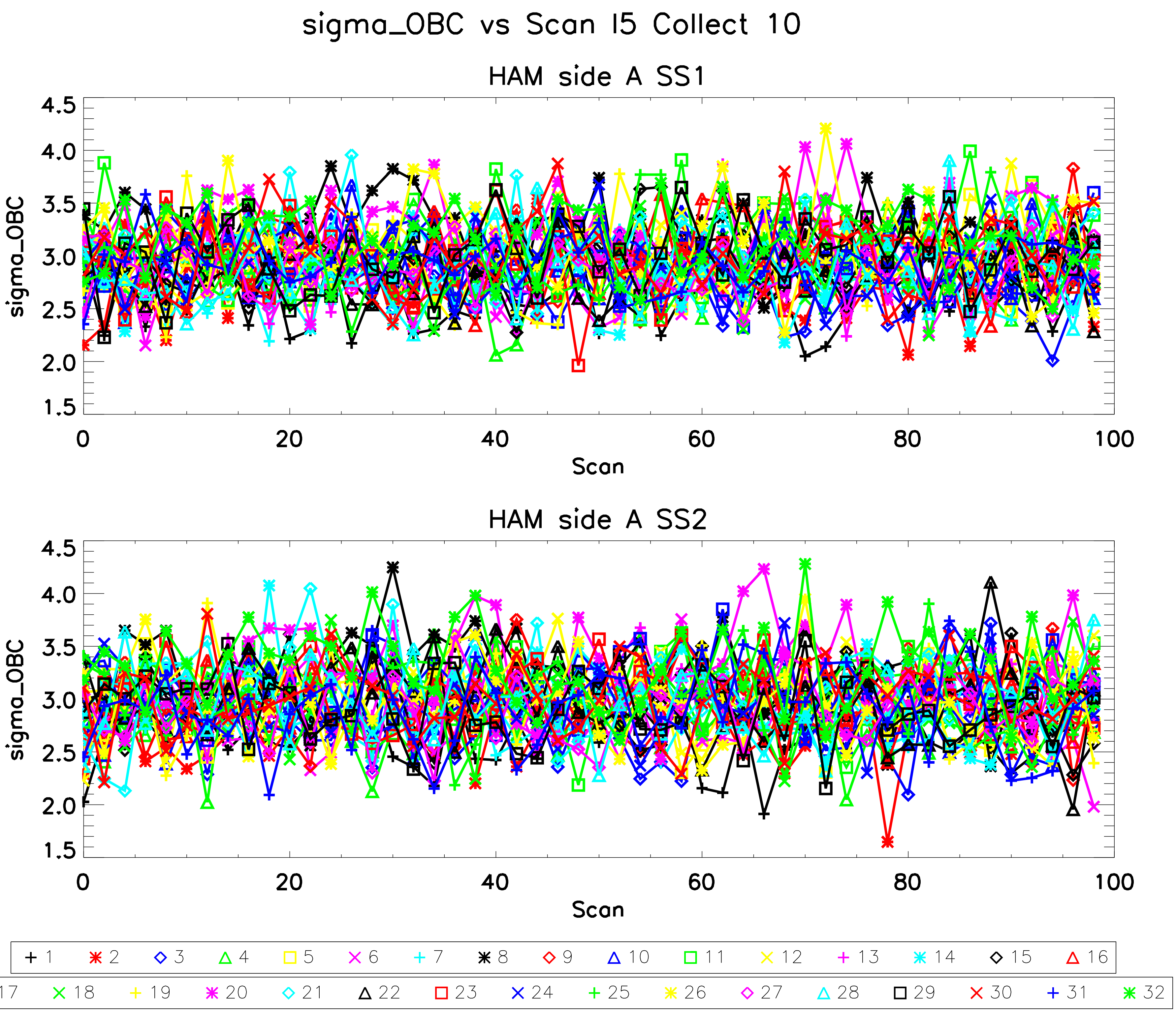
sigma_OBC vs Scan M16B Collect 9

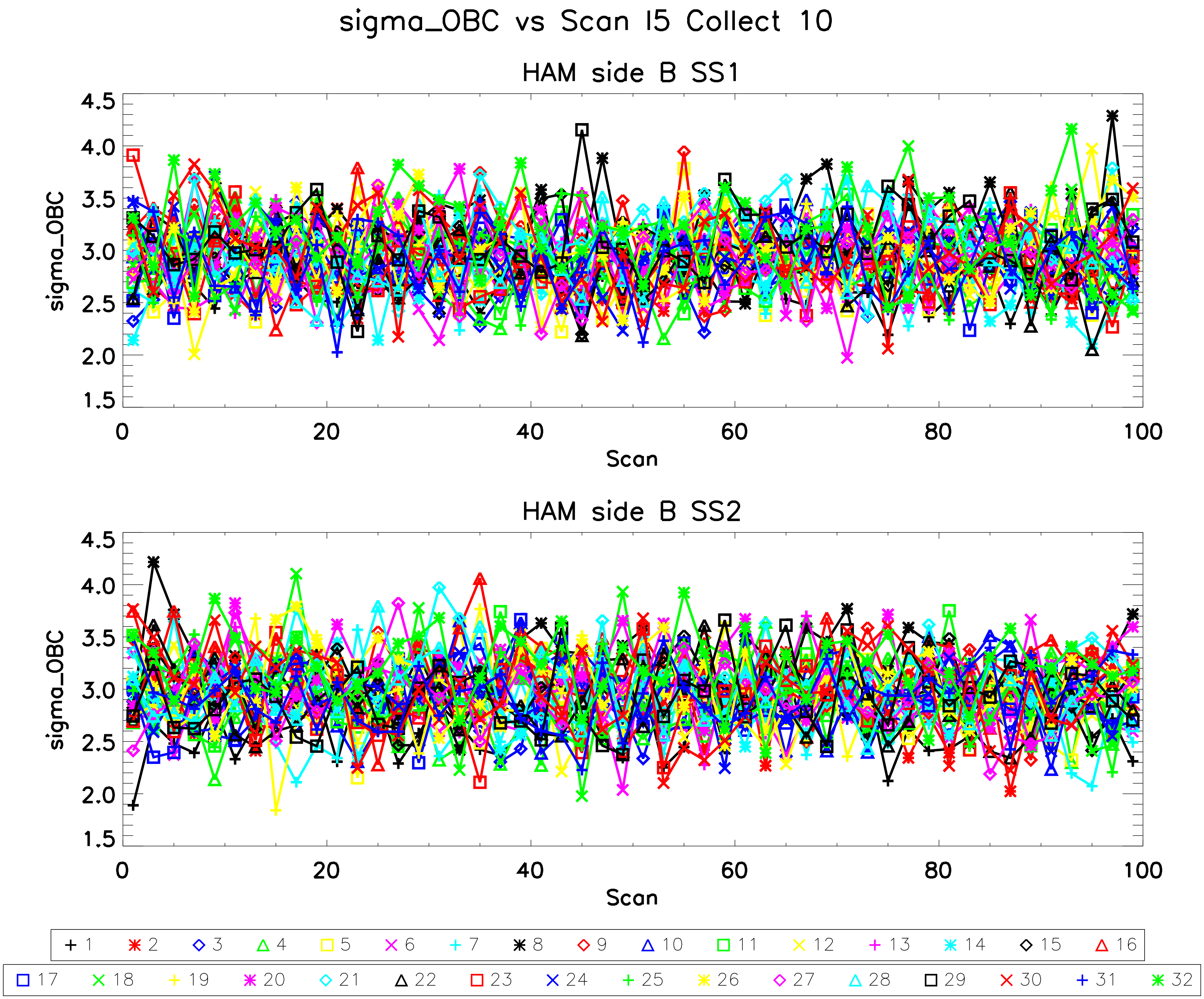


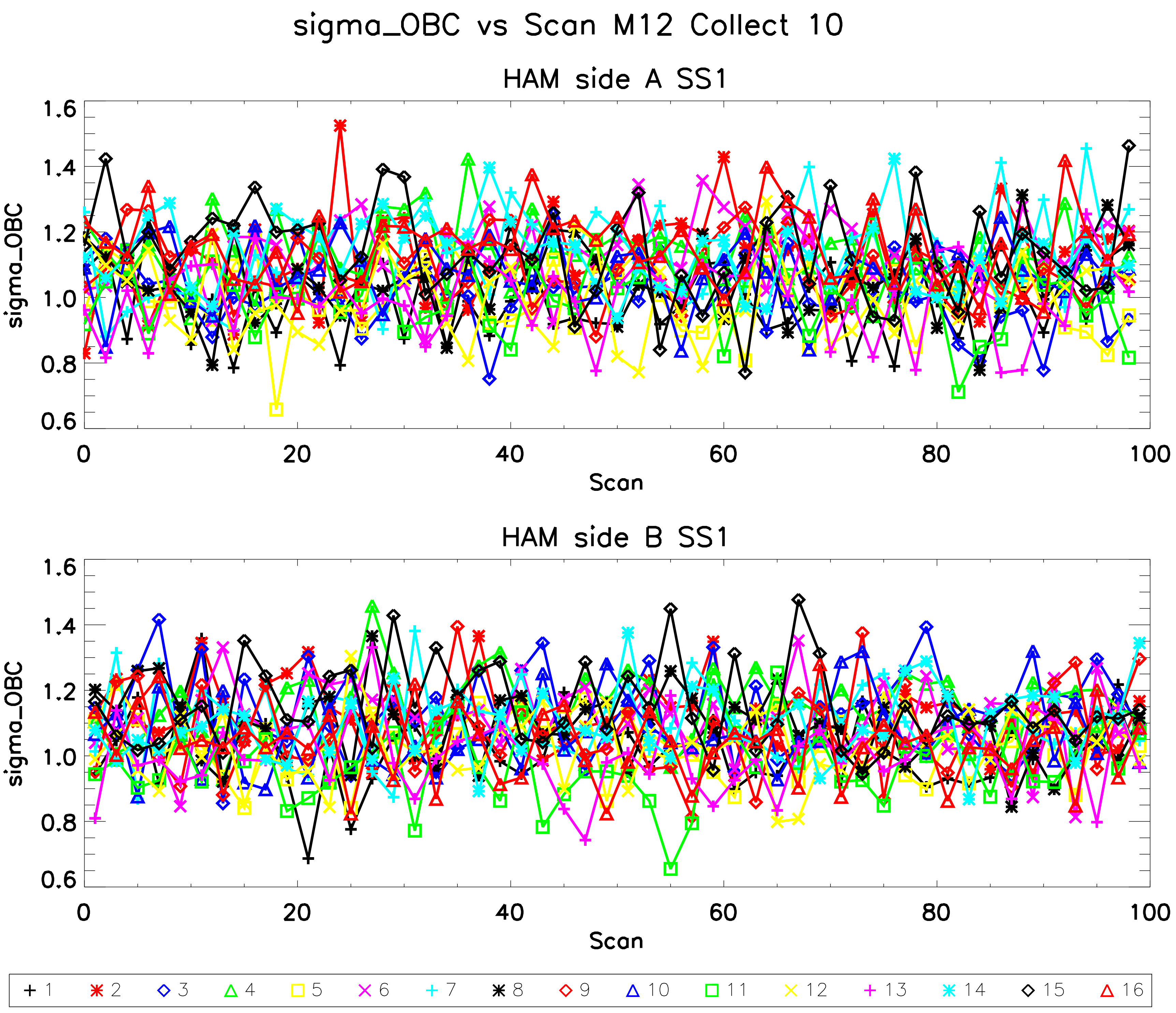

sigma_OBC vs Scan I4 Collect 10
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✳ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✳ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✳ 32

sigma_OBC vs Scan I4 Collect 10

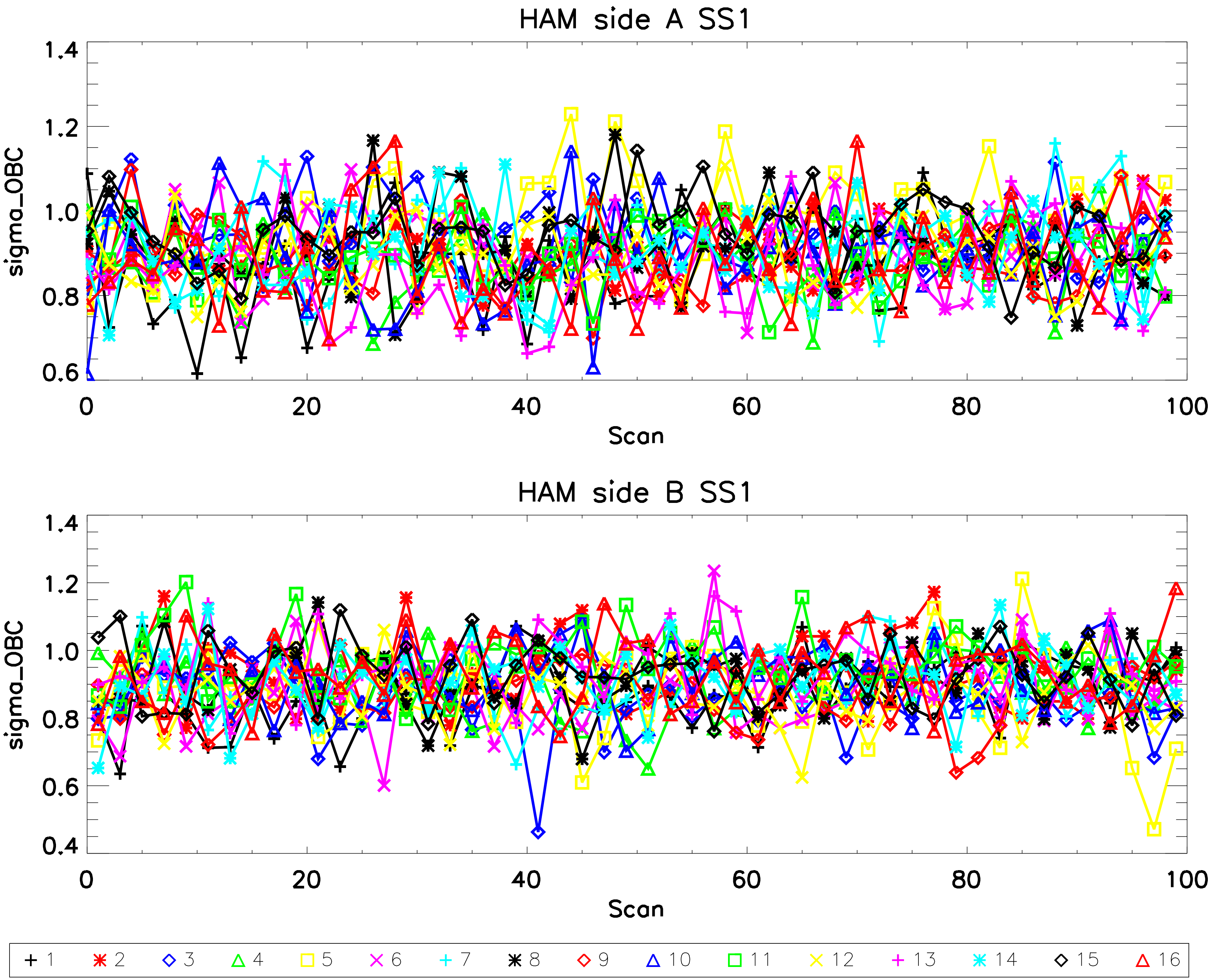


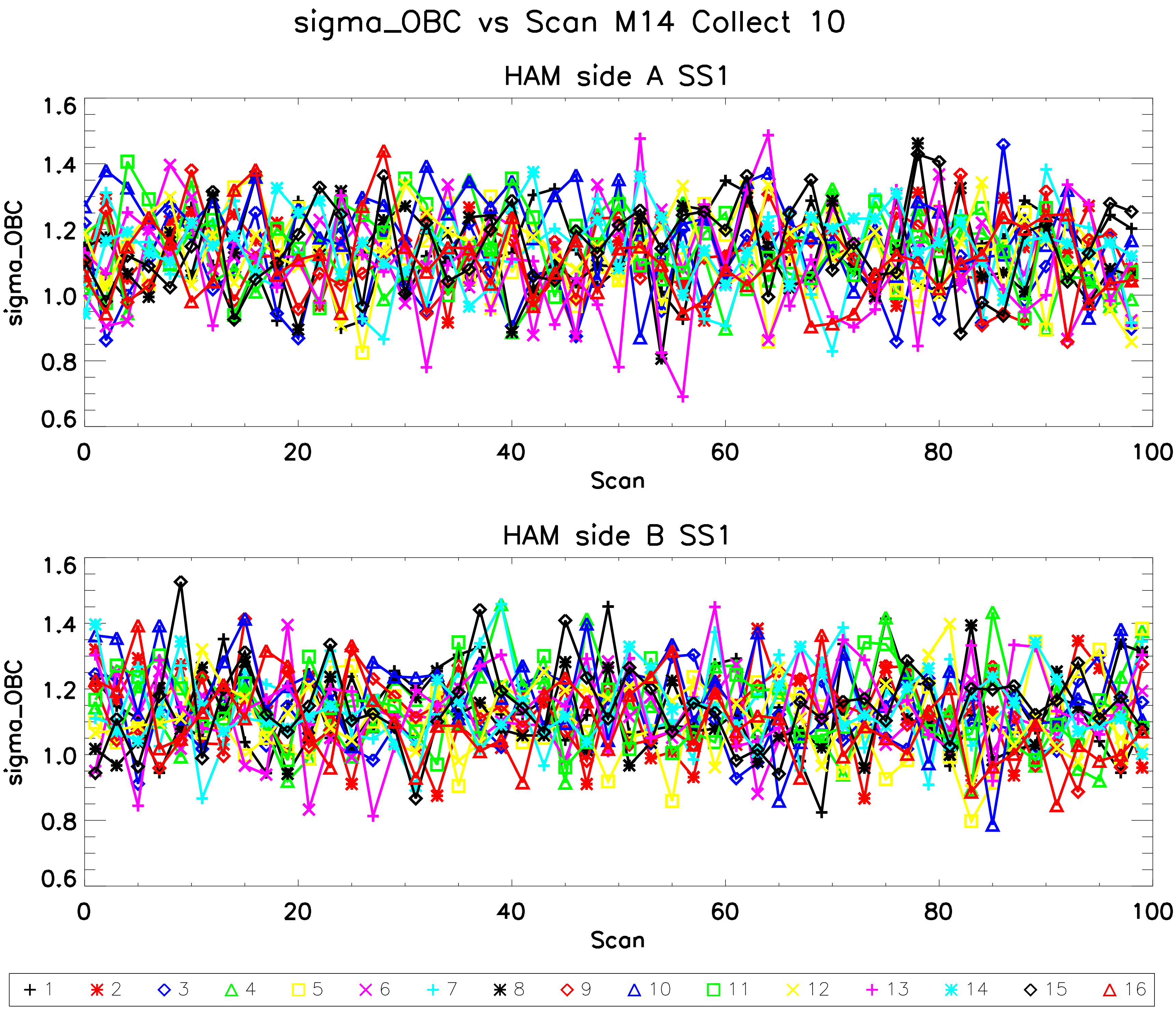

sigma_OBC vs Scan I5 Collect 10
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✳ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✳ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✳ 32

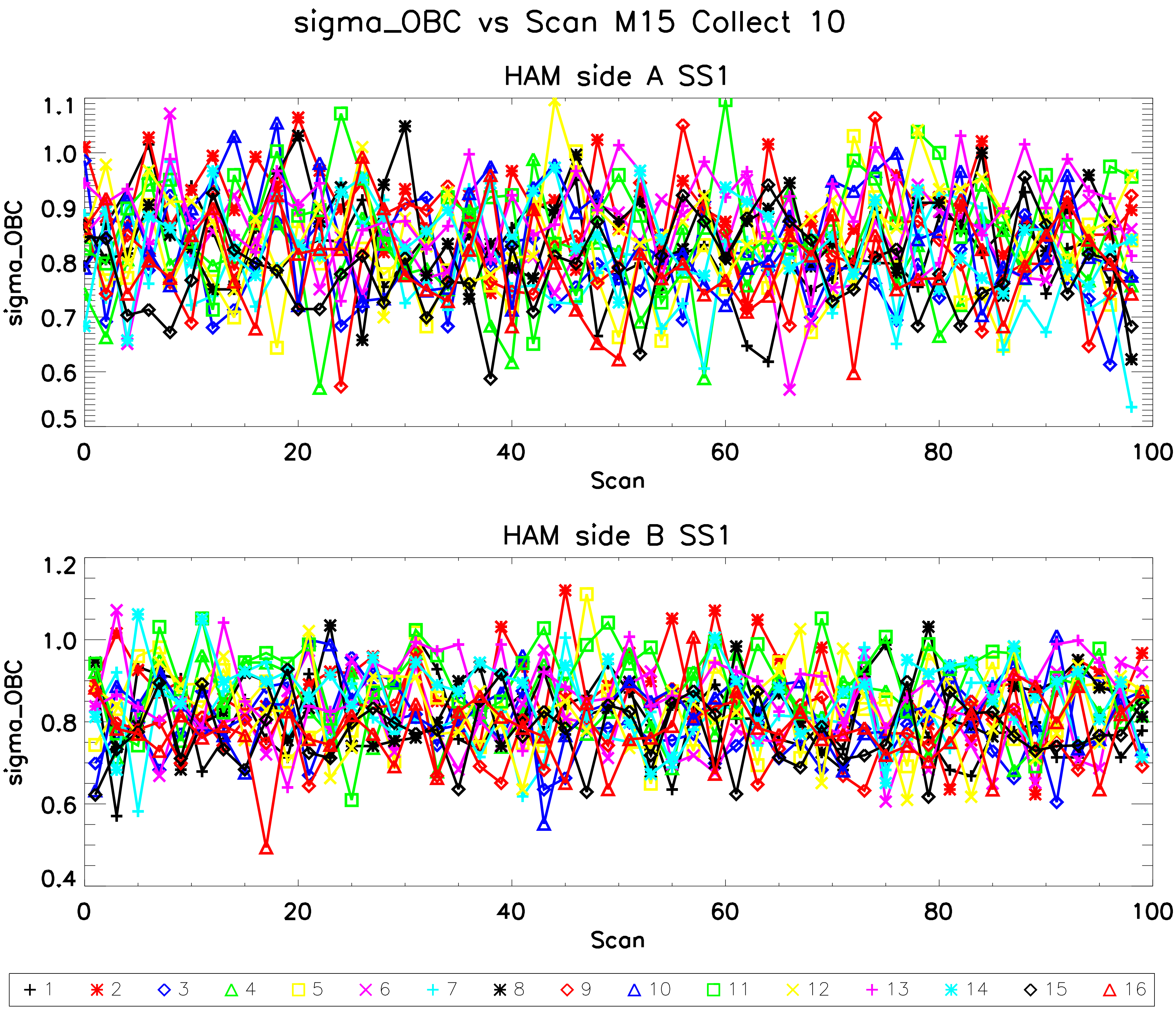

sigma_OBC vs Scan I5 Collect 10
HAM side B SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32


sigma_OBC vs Scan M12 Collect 10
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

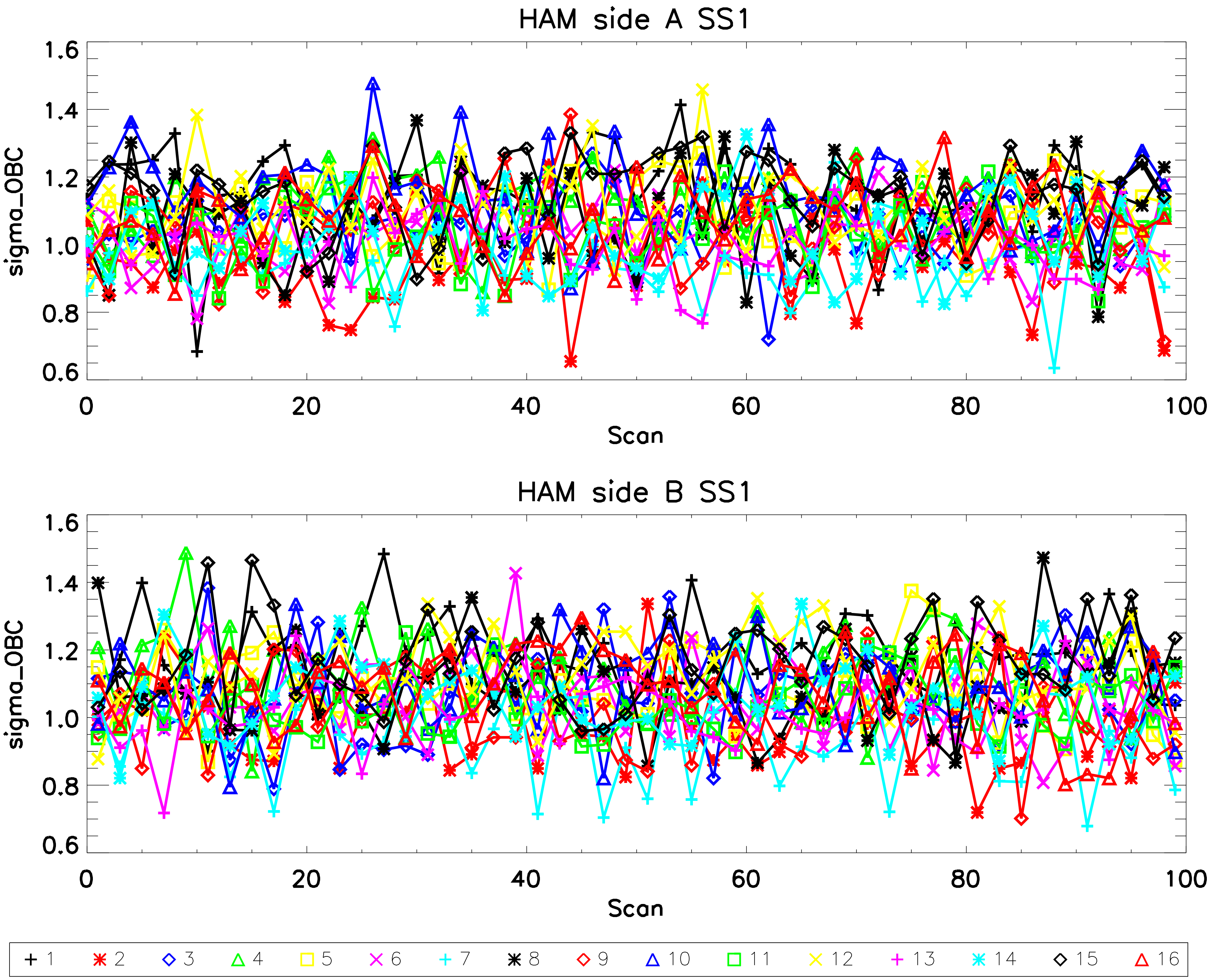
sigma_OBC vs Scan M13 Collect 10

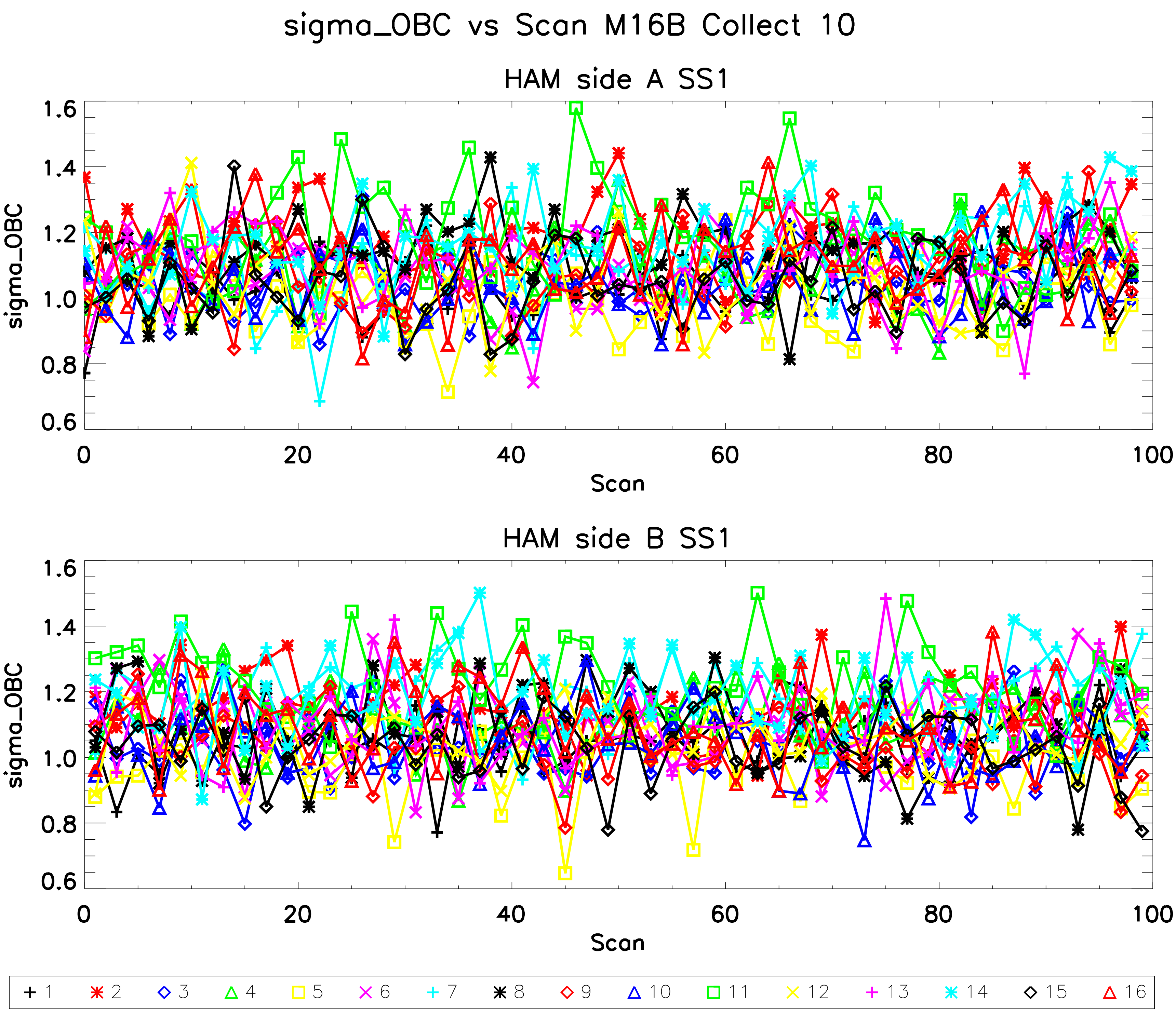



sigma_OBC vs Scan M14 Collect 10
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

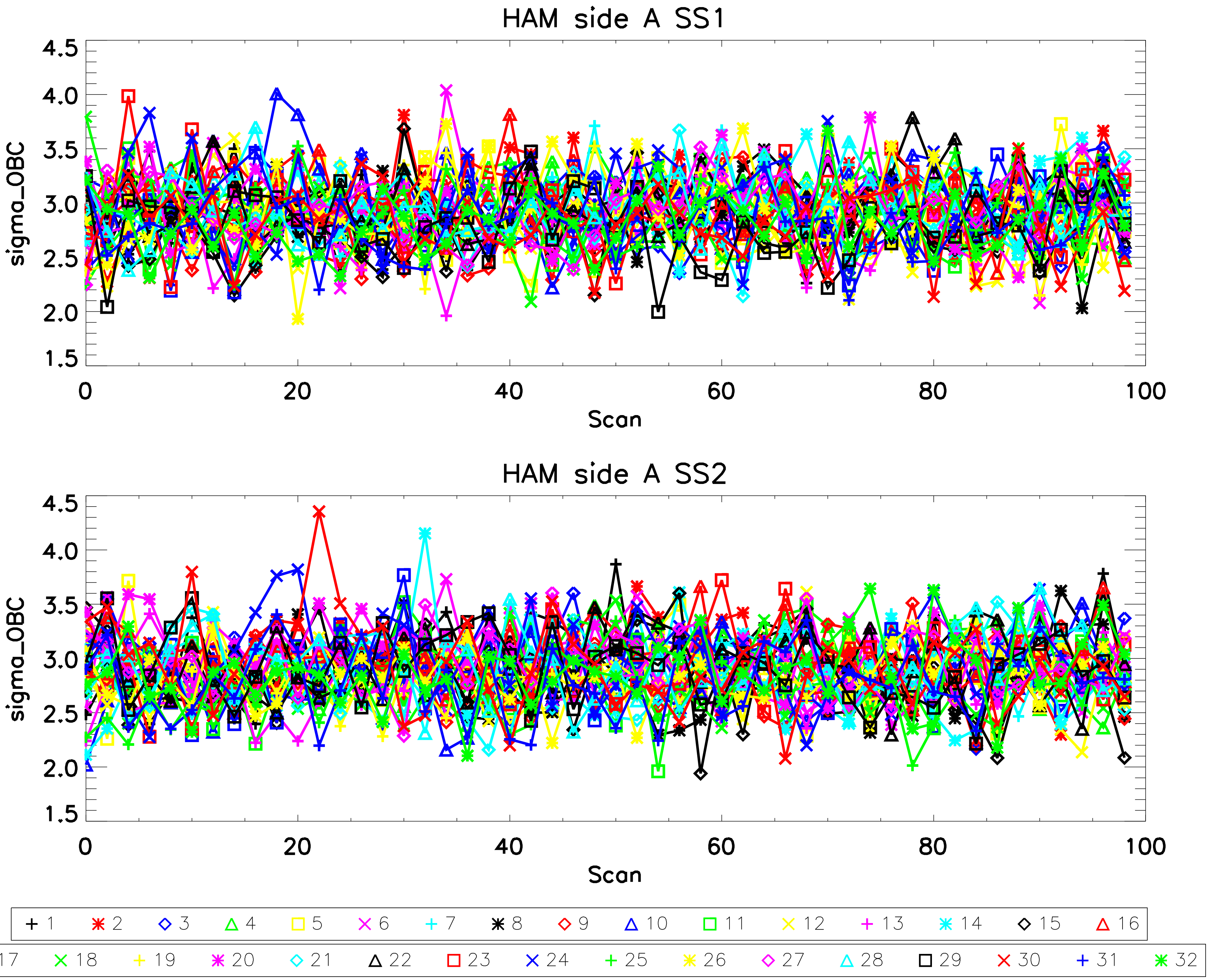

sigma_OBC vs Scan M15 Collect 10
HAM side A SS1
sigma_OBC
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

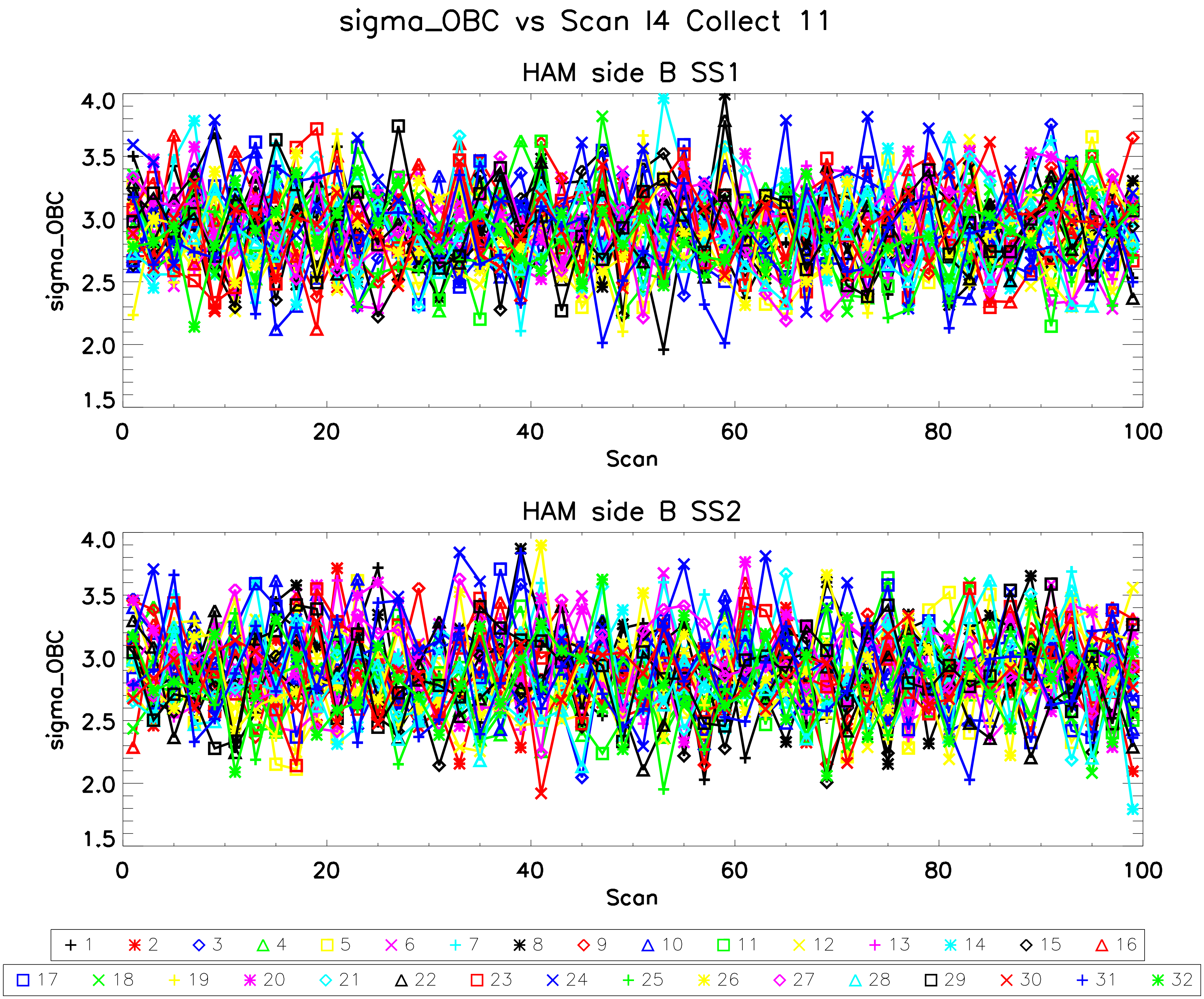
## sigma_OBC vs Scan M16A Collect 10

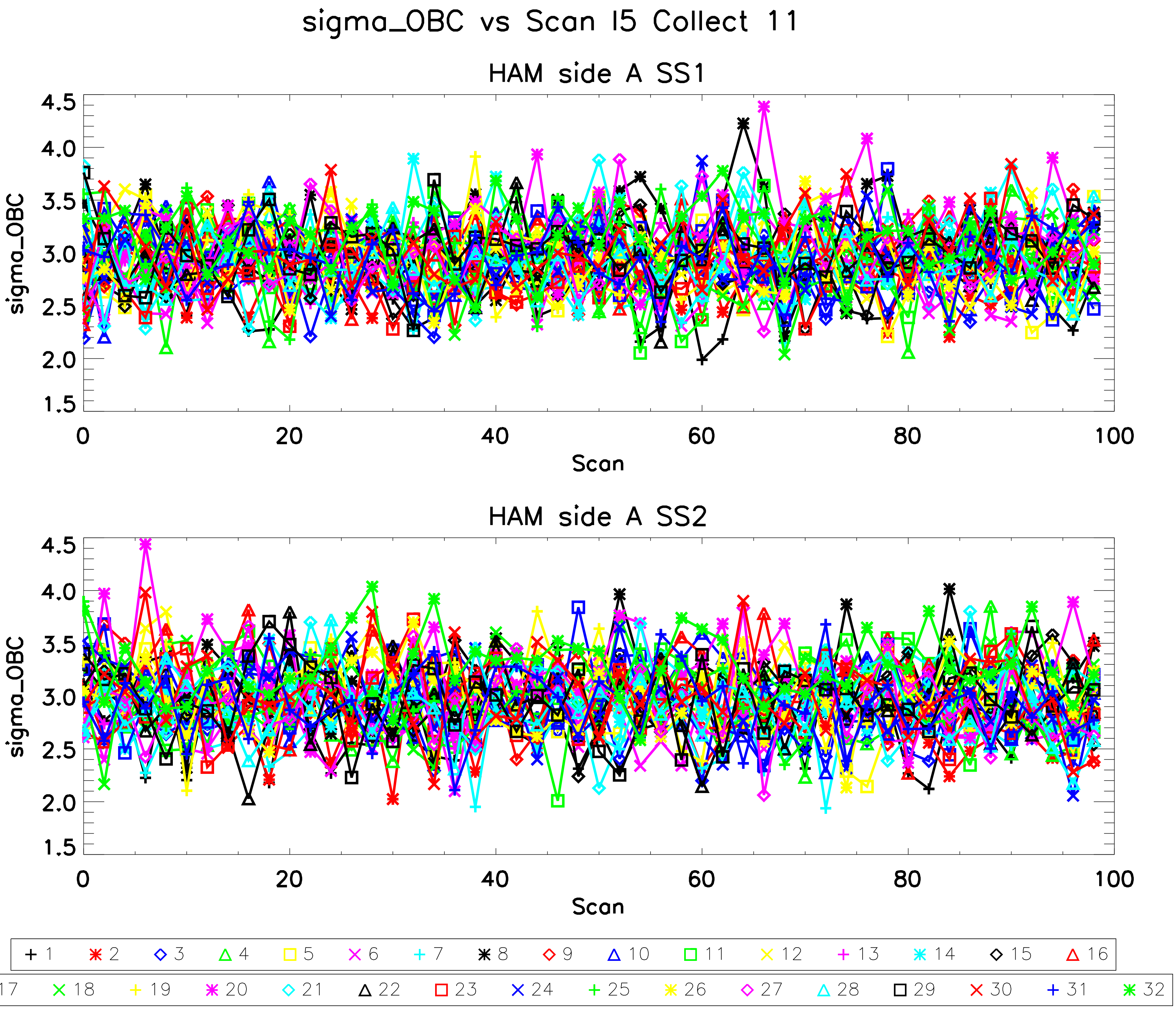



sigma_OBC vs Scan M16B Collect 10
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

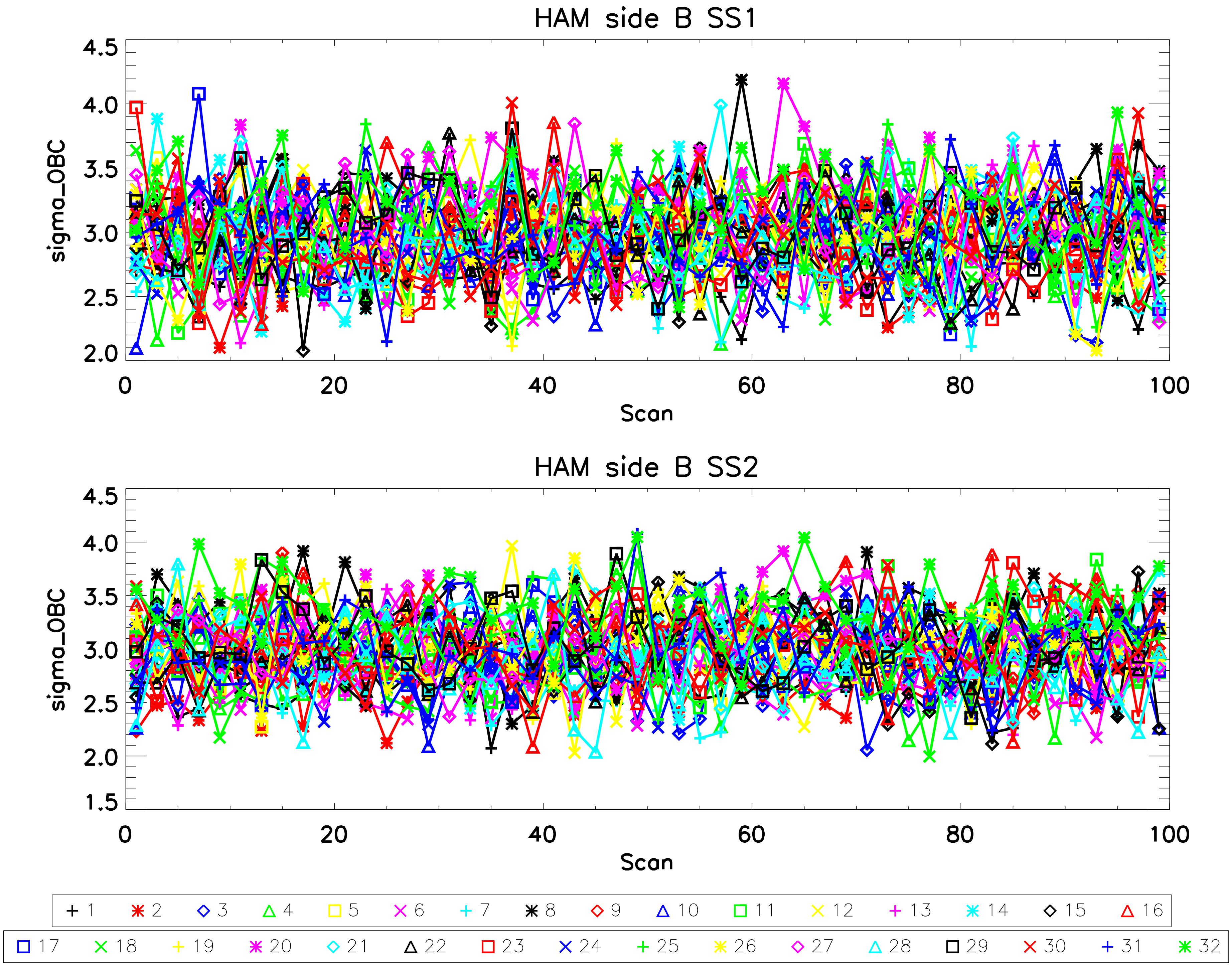
sigma_OBC vs Scan I4 Collect 11



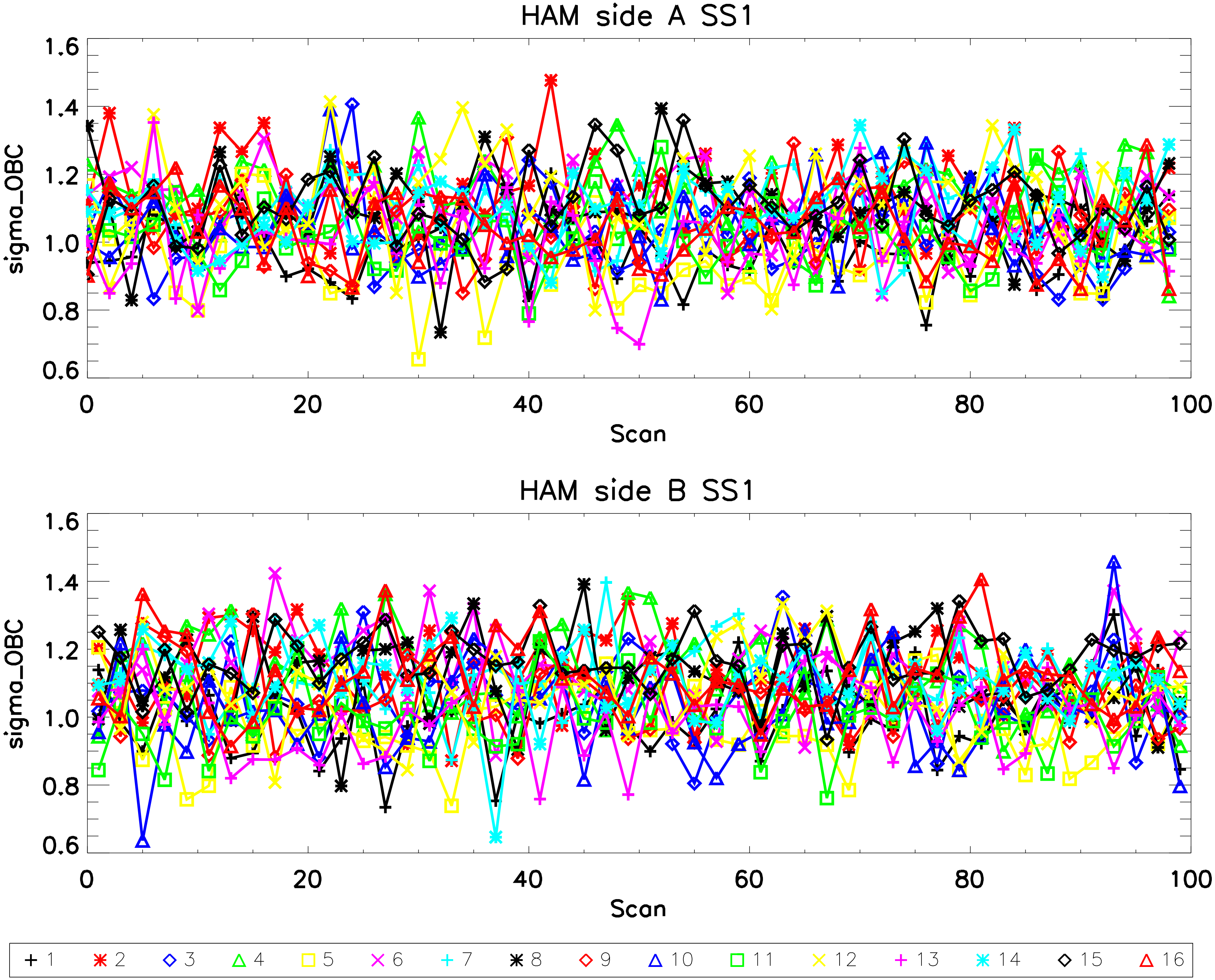

sigma_OBC vs Scan I4 Collect 11
HAM side B SS1
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side B SS2
sigma_OBC
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

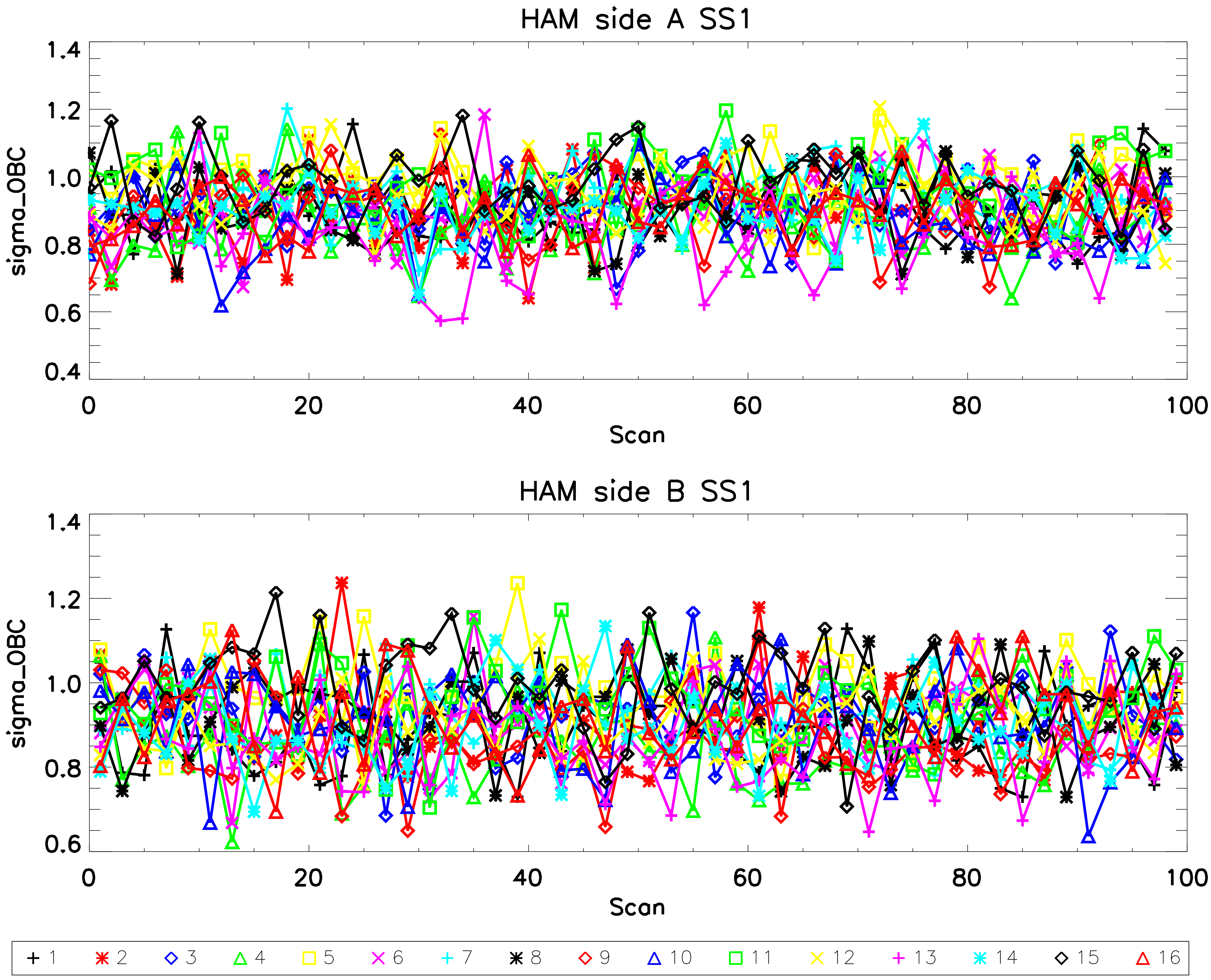

sigma_OBC vs Scan I5 Collect 11
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16
□ 17
× 18
+ 19
✱ 20
◇ 21
△ 22
□ 23
× 24
+ 25
✱ 26
◇ 27
△ 28
□ 29
× 30
+ 31
✱ 32

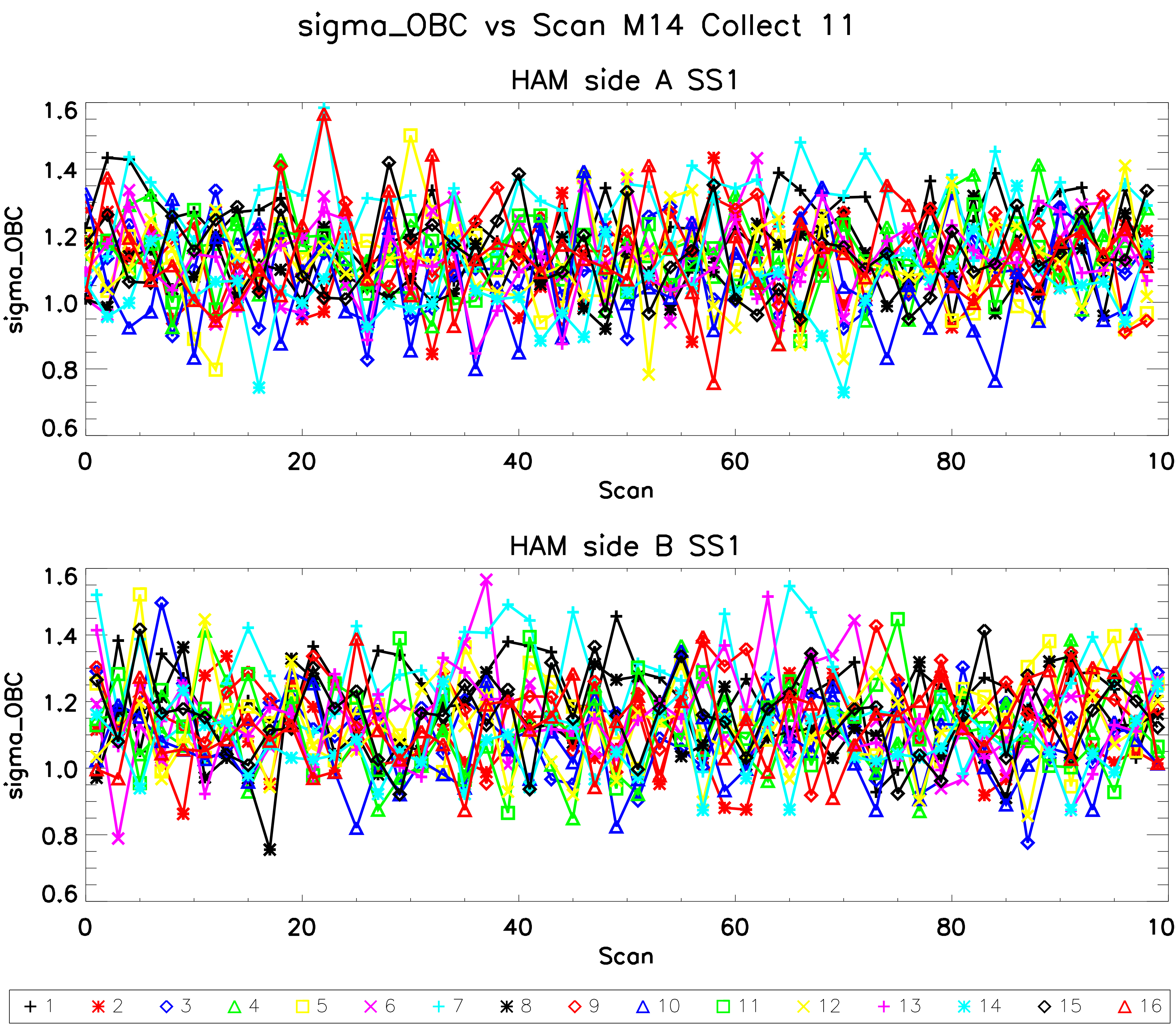
sigma_OBC vs Scan I5 Collect 11

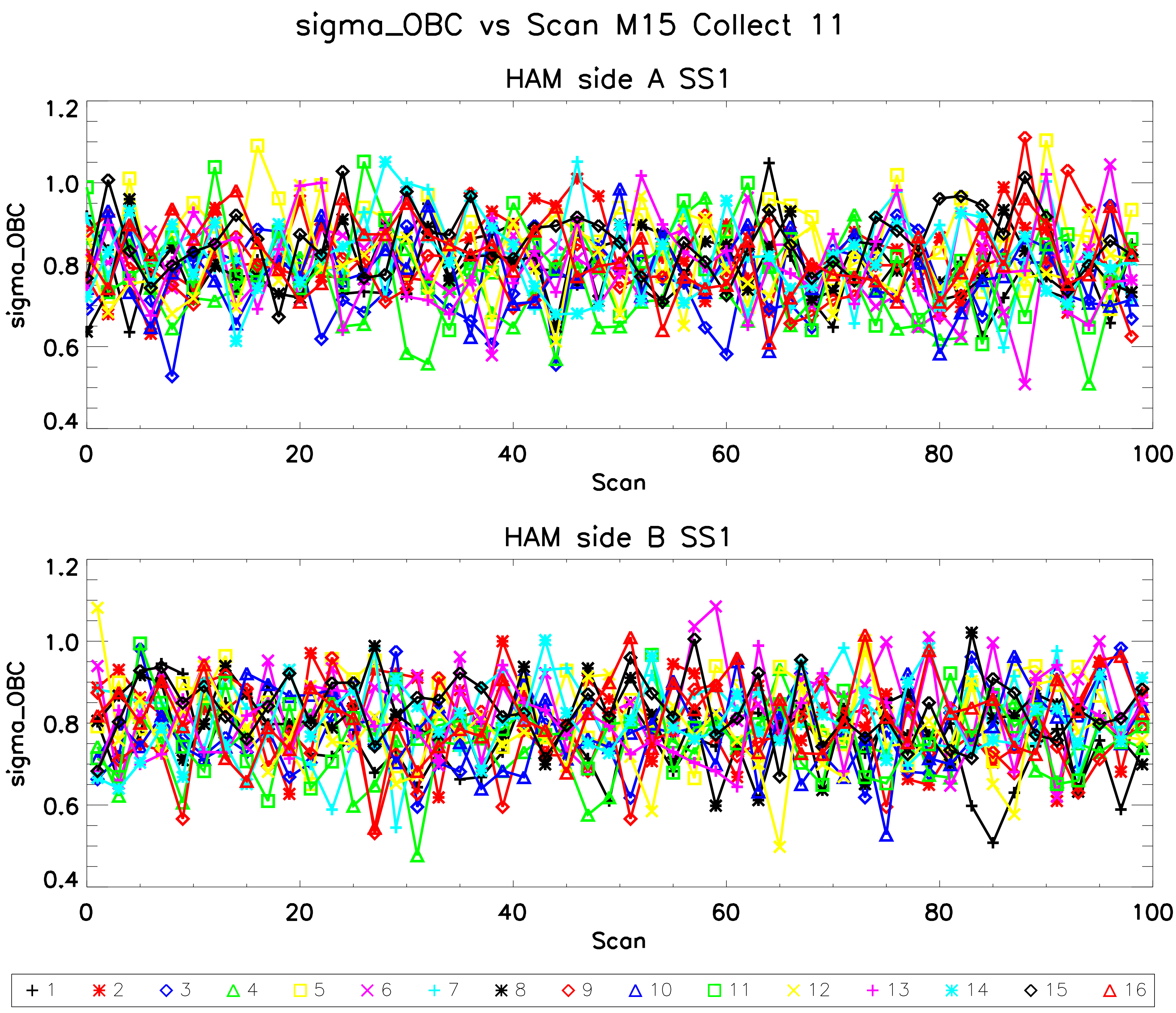


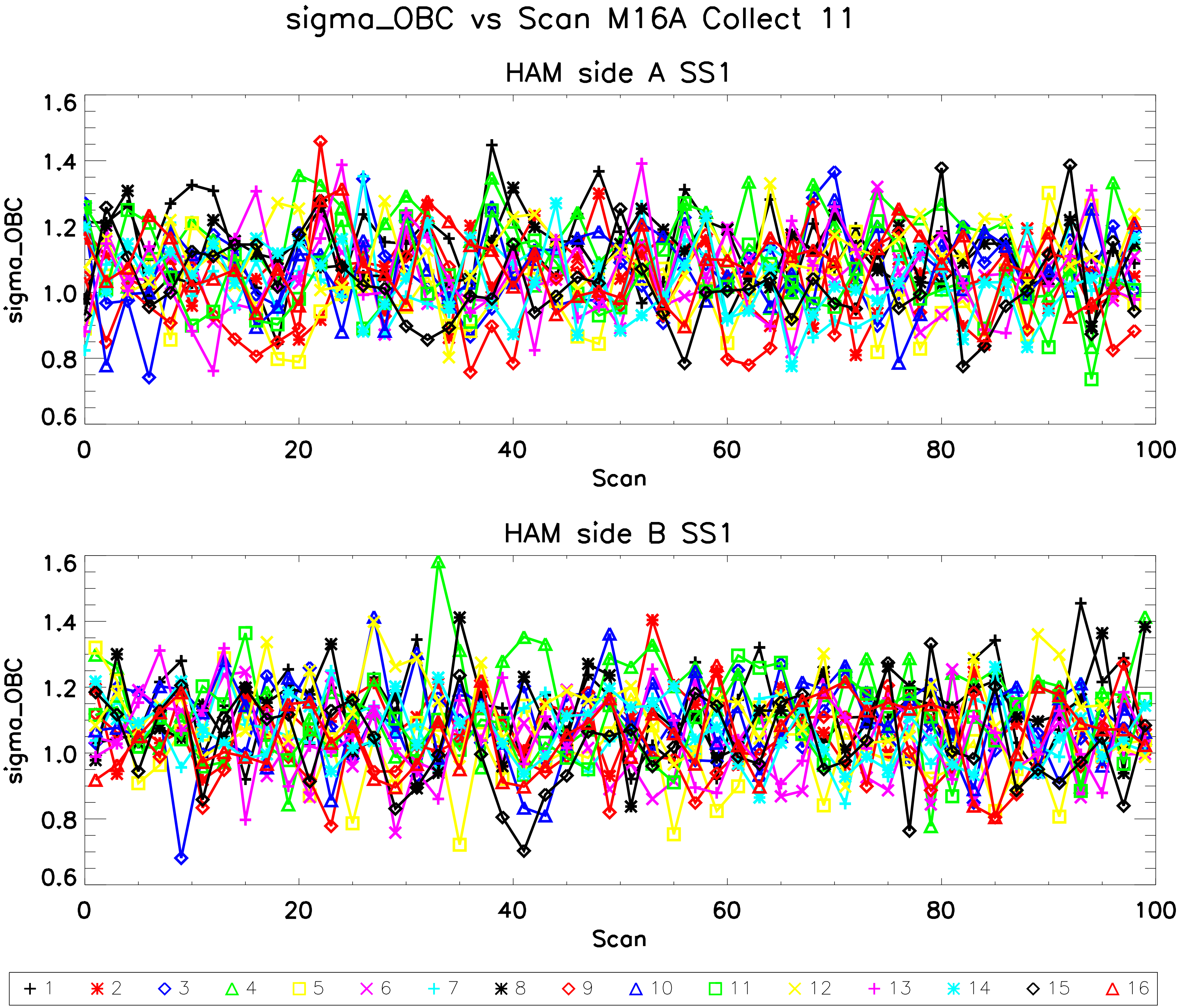
sigma_OBC vs Scan M12 Collect 11

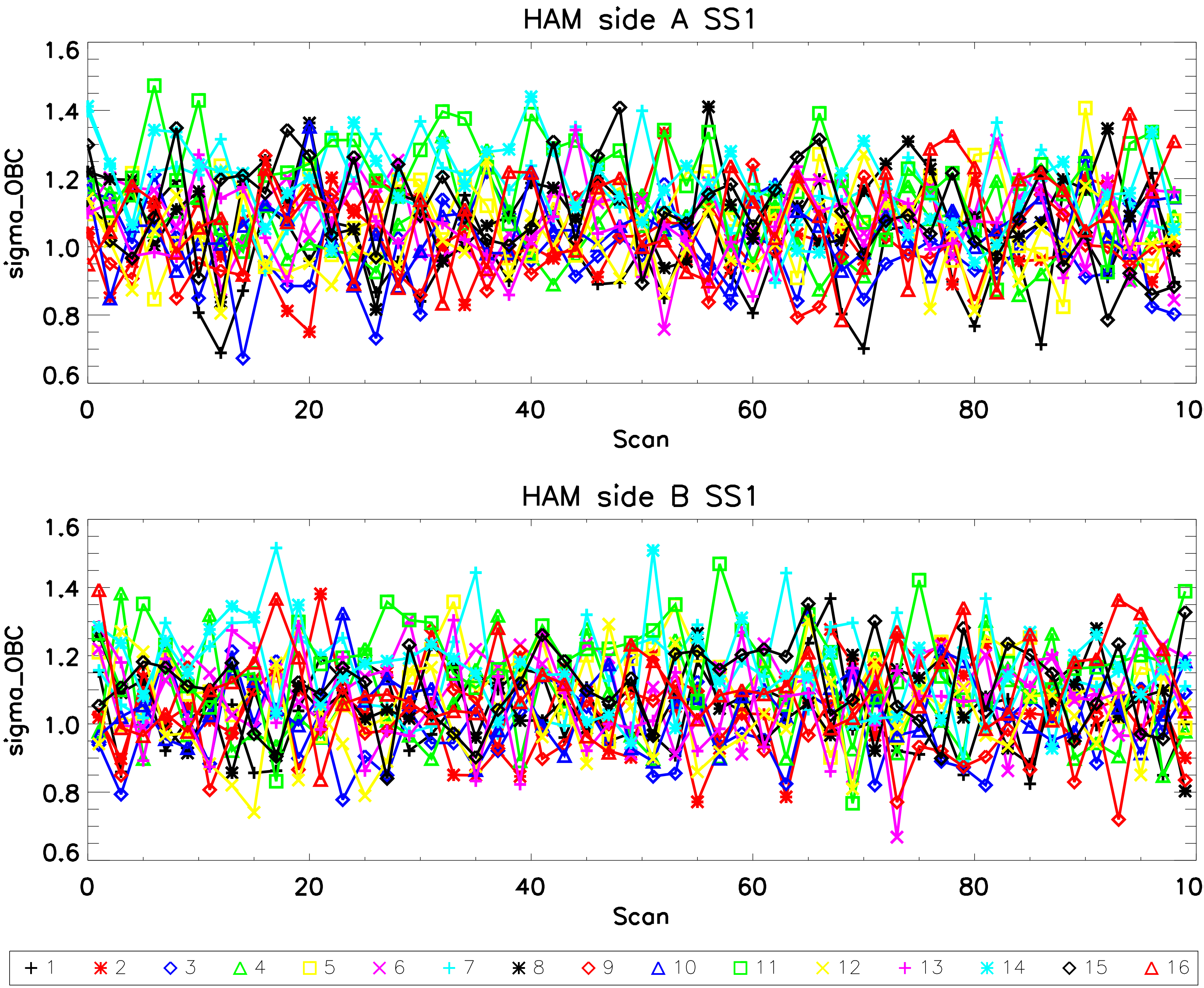



sigma_OBC vs Scan M13 Collect 11


sigma_OBC vs Scan M14 Collect 11
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16

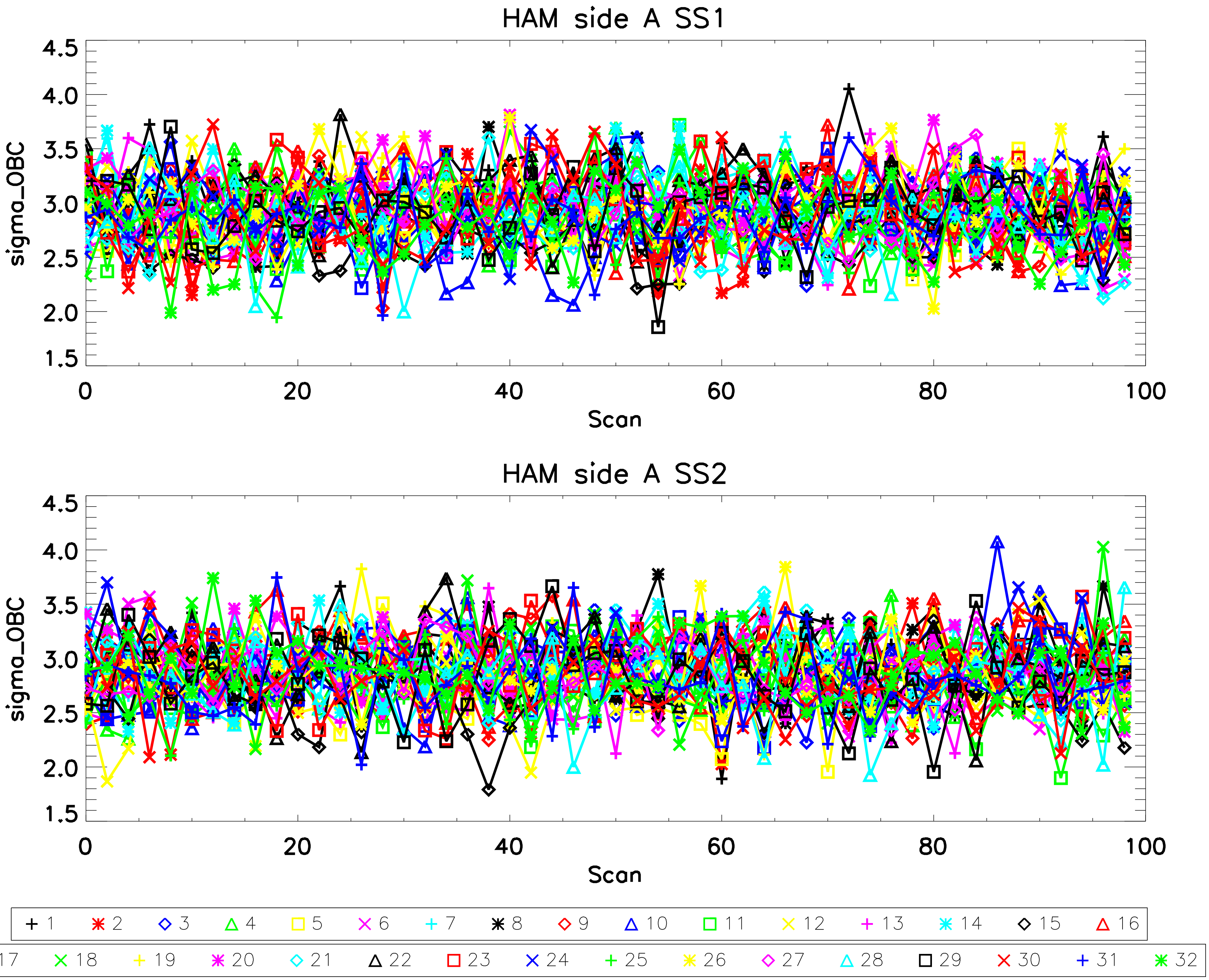

sigma_OBC vs Scan M15 Collect 11
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✳ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✳ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✳ 14
◇ 15
△ 16


sigma_OBC vs Scan M16A Collect 11
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

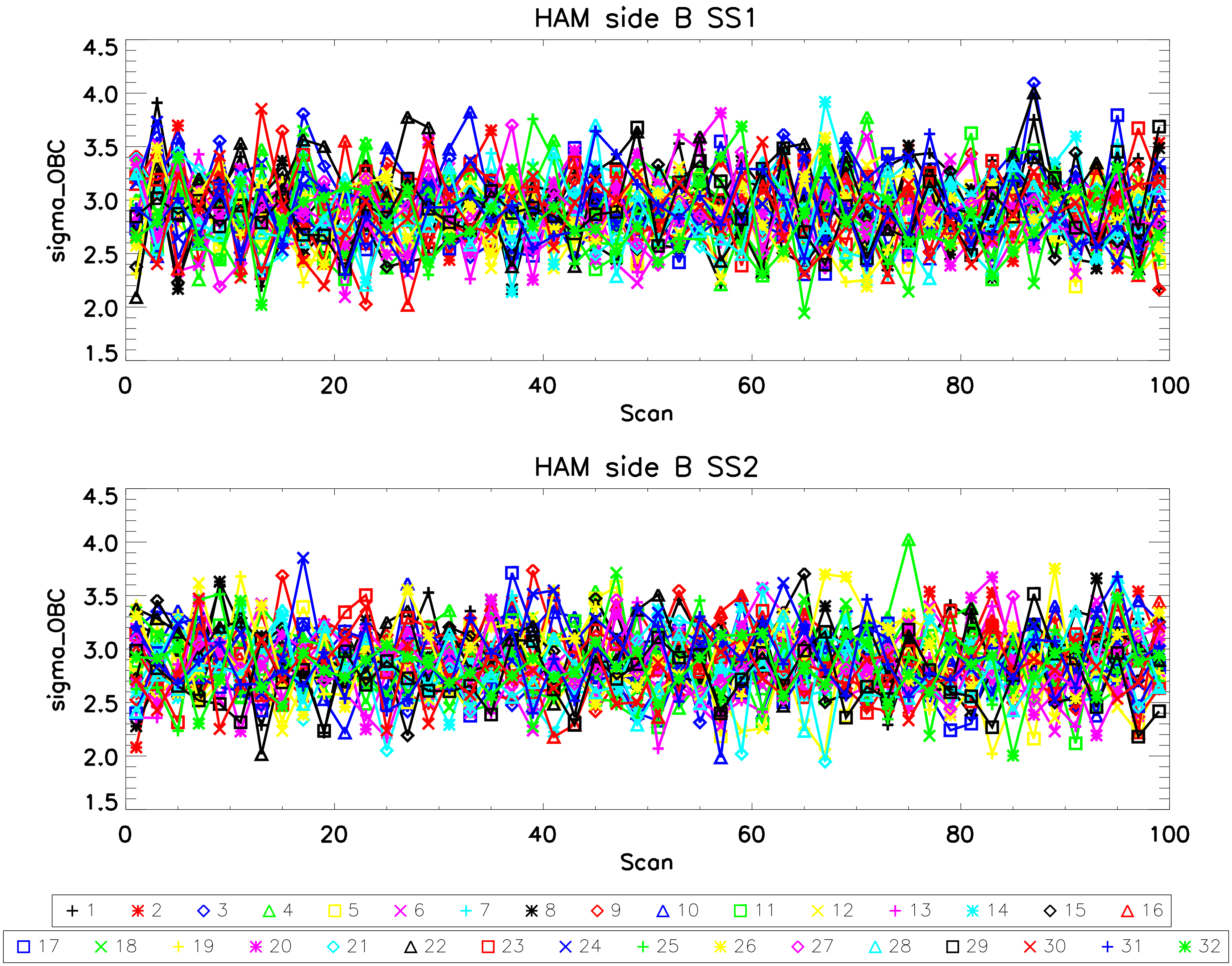


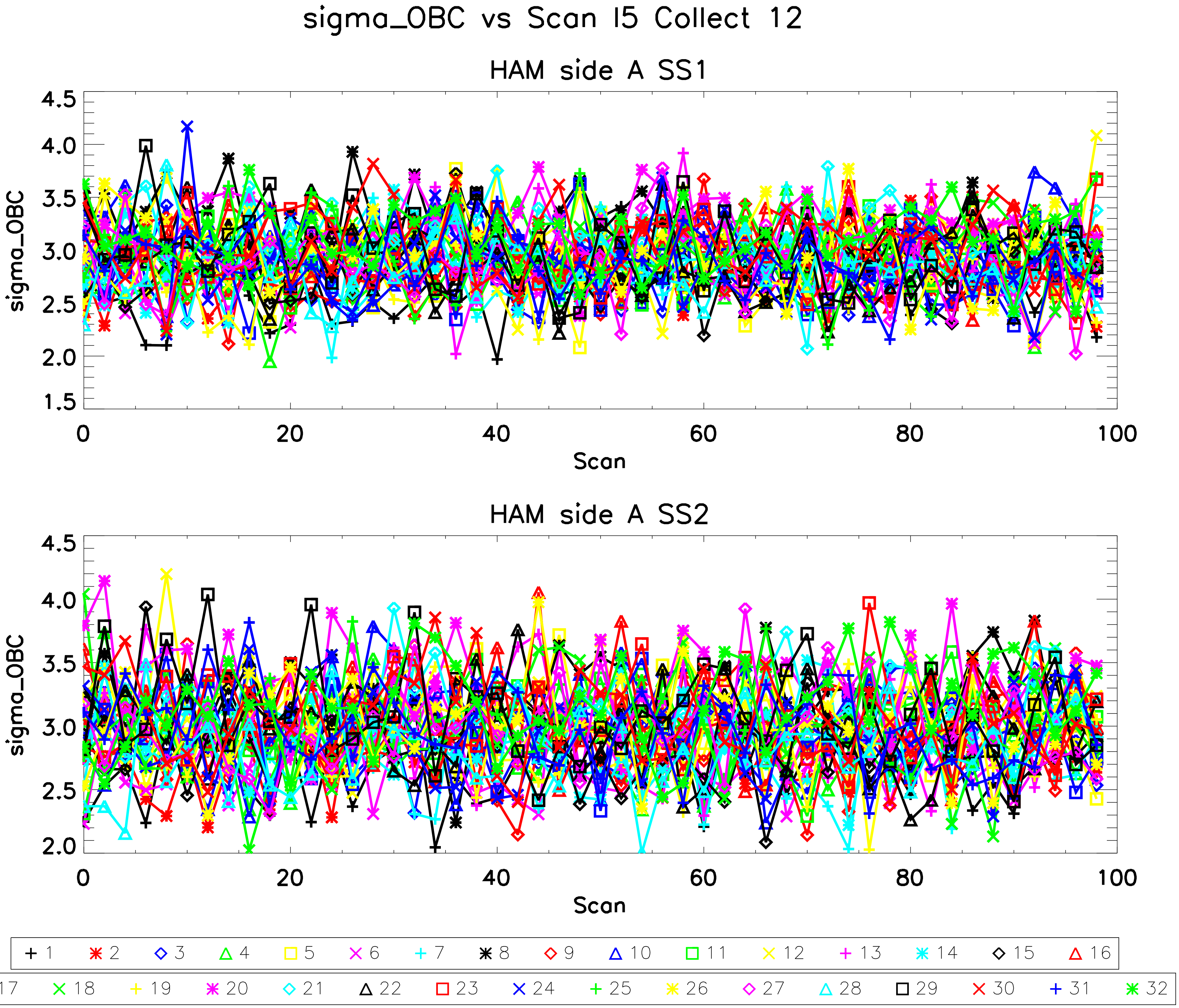
sigma_OBC vs Scan M16B Collect 11

sigma_OBC vs Scan I4 Collect 12

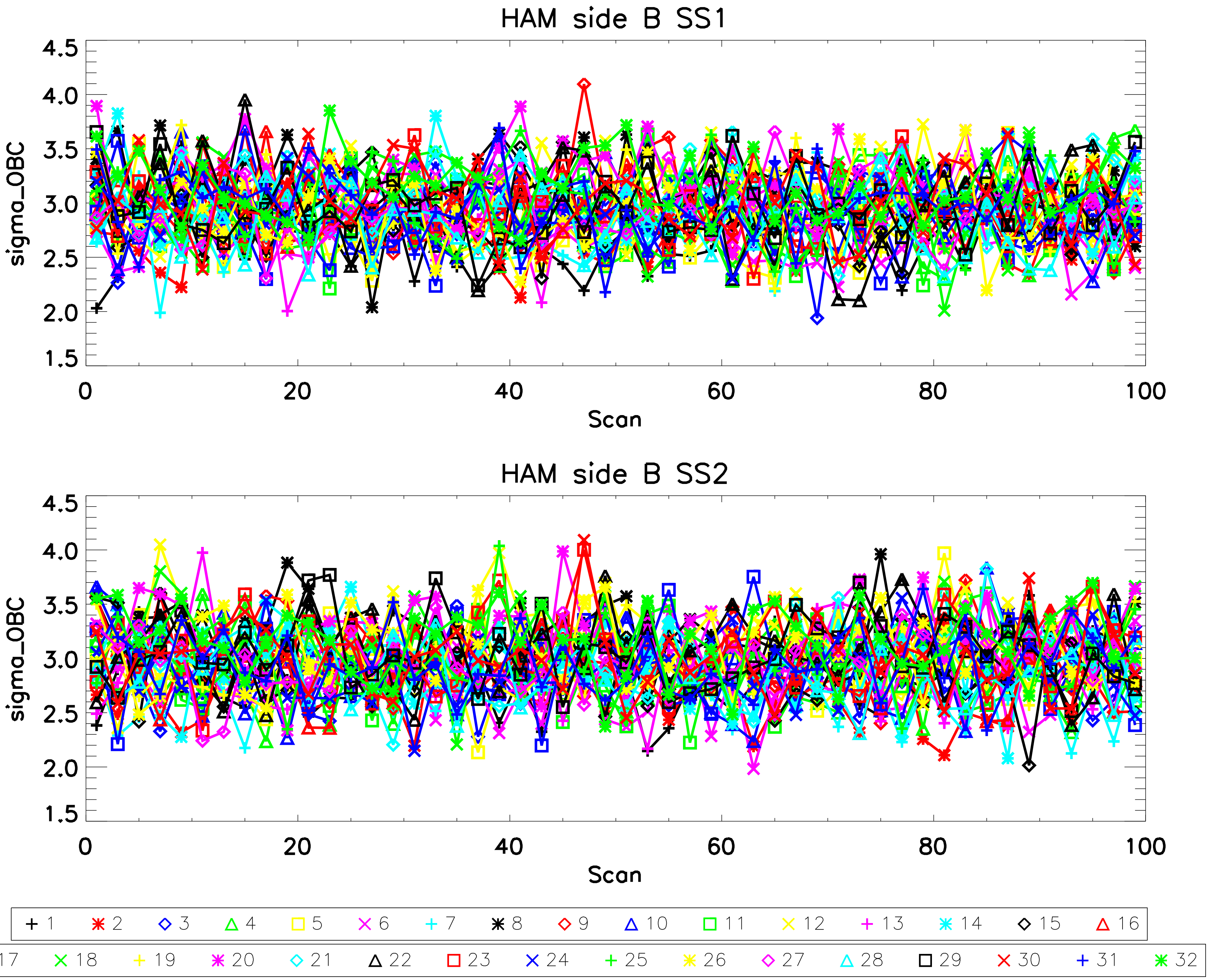


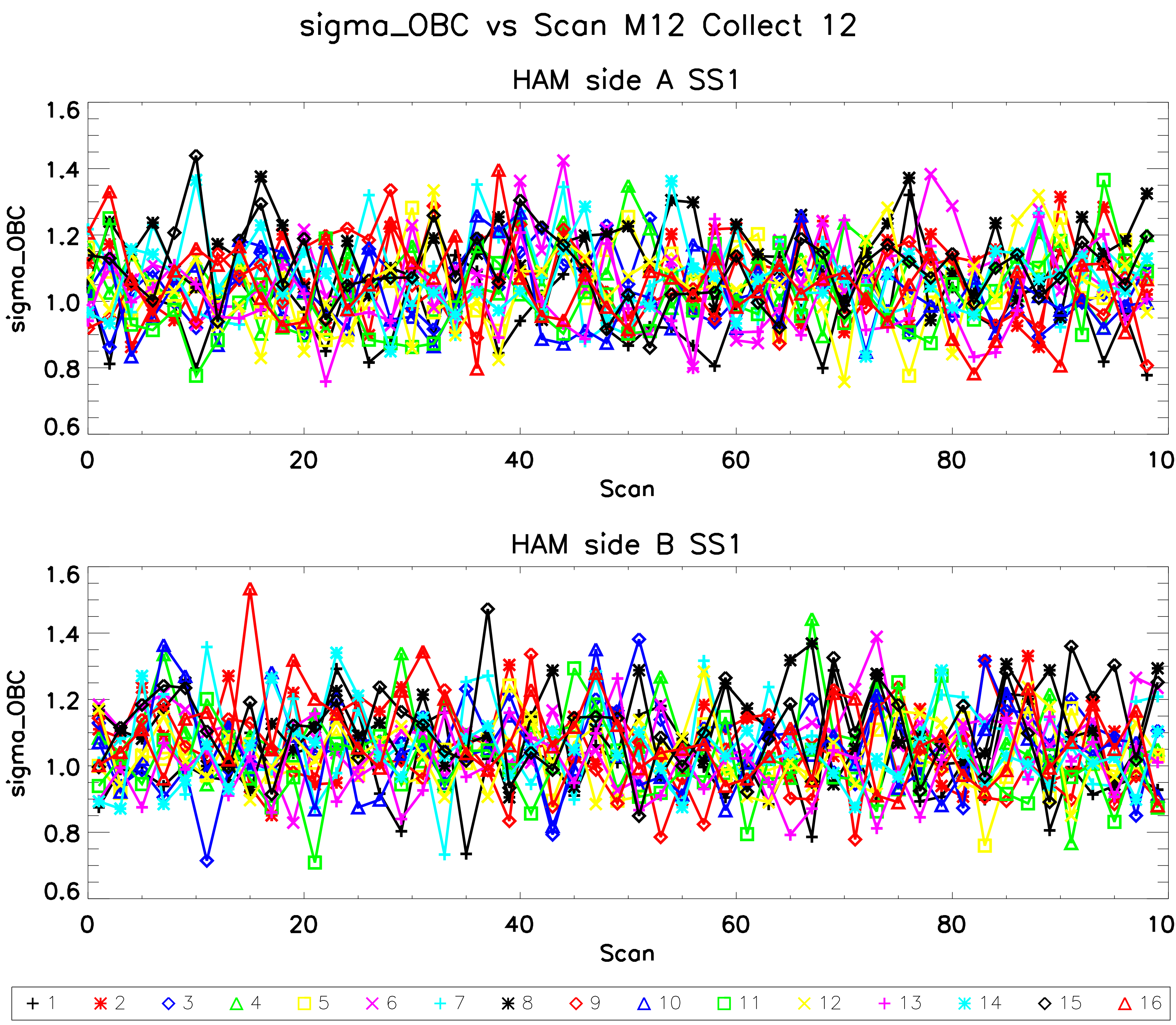
sigma_OBC vs Scan I4 Collect 12

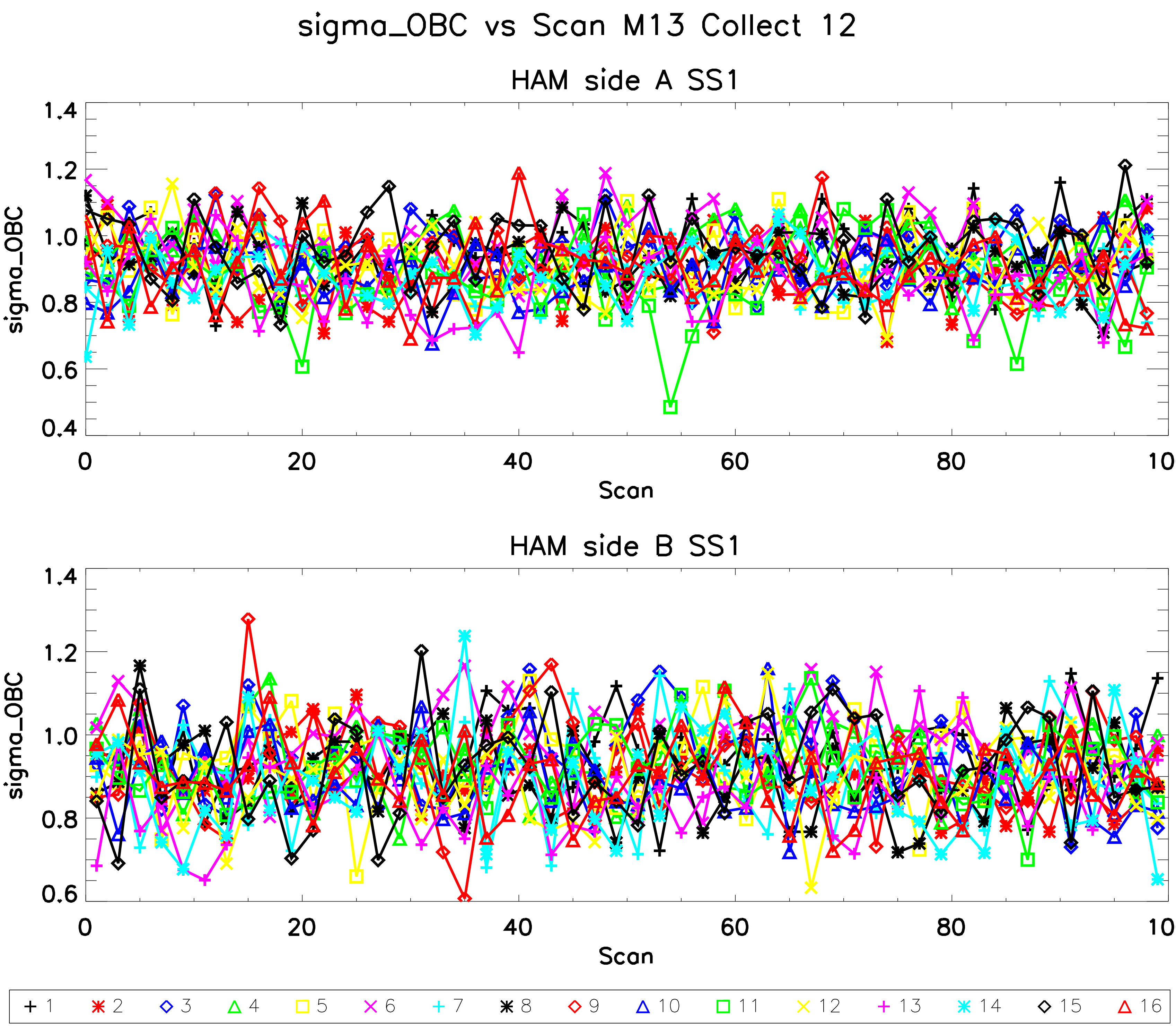



sigma_OBC vs Scan I5 Collect 12
HAM side A SS1
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
1.5
0
20
40
60
80
100
Scan
HAM side A SS2
sigma_OBC
4.5
4.0
3.5
3.0
2.5
2.0
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

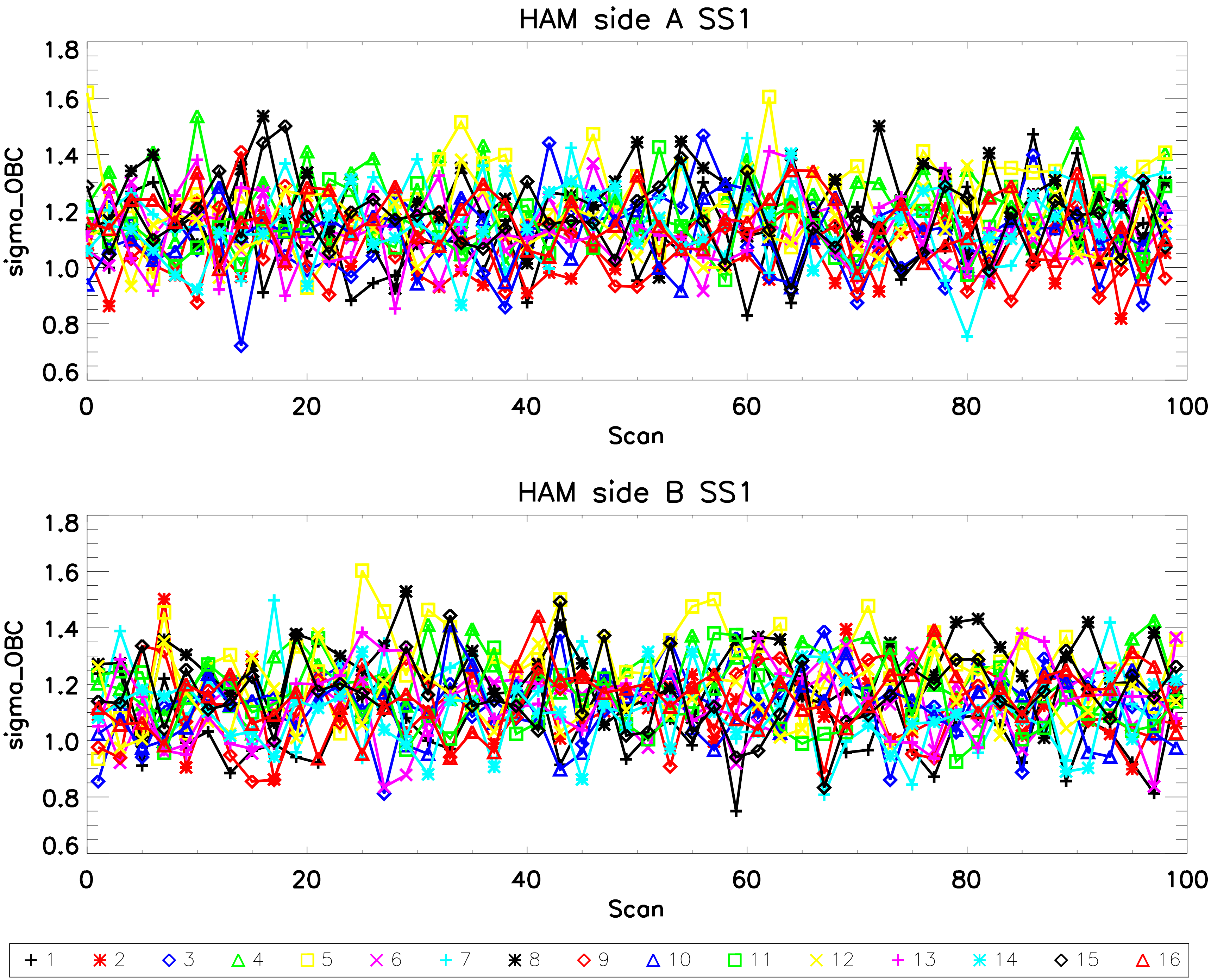
sigma_OBC vs Scan I5 Collect 12

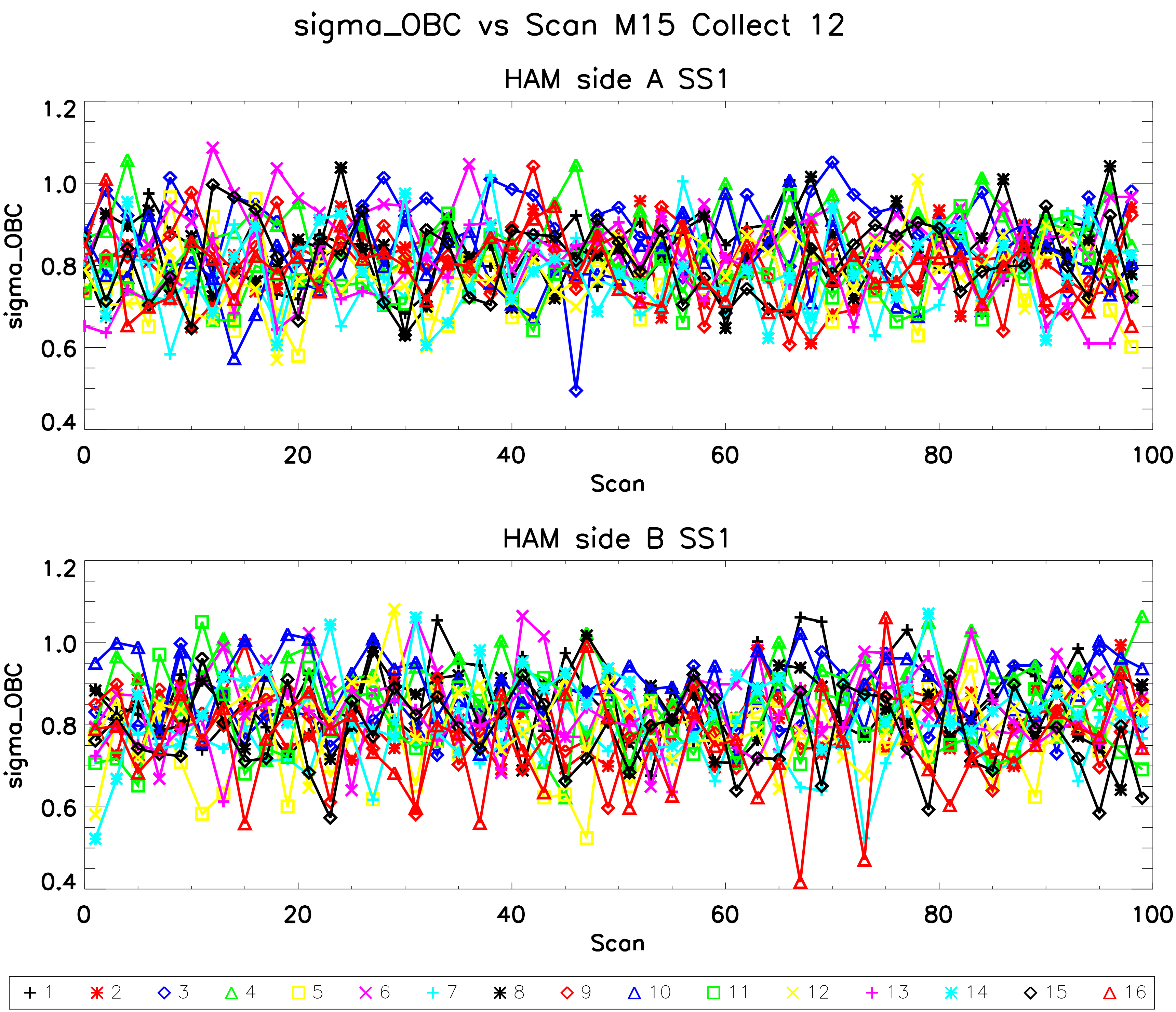


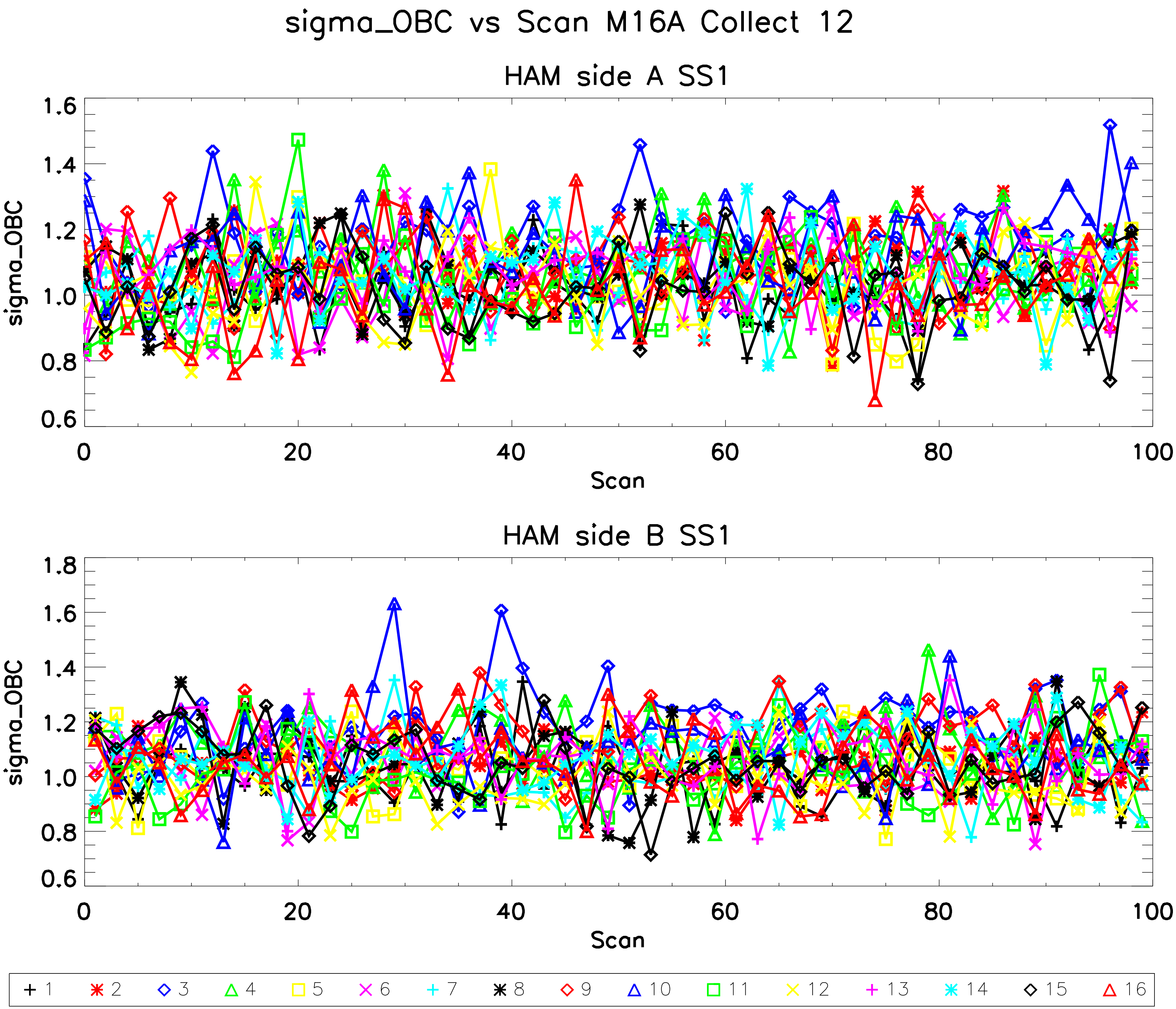

sigma_OBC vs Scan M12 Collect 12
HAM side A SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16


sigma_OBC vs Scan M13 Collect 12
HAM side A SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16

sigma_OBC vs Scan M14 Collect 12

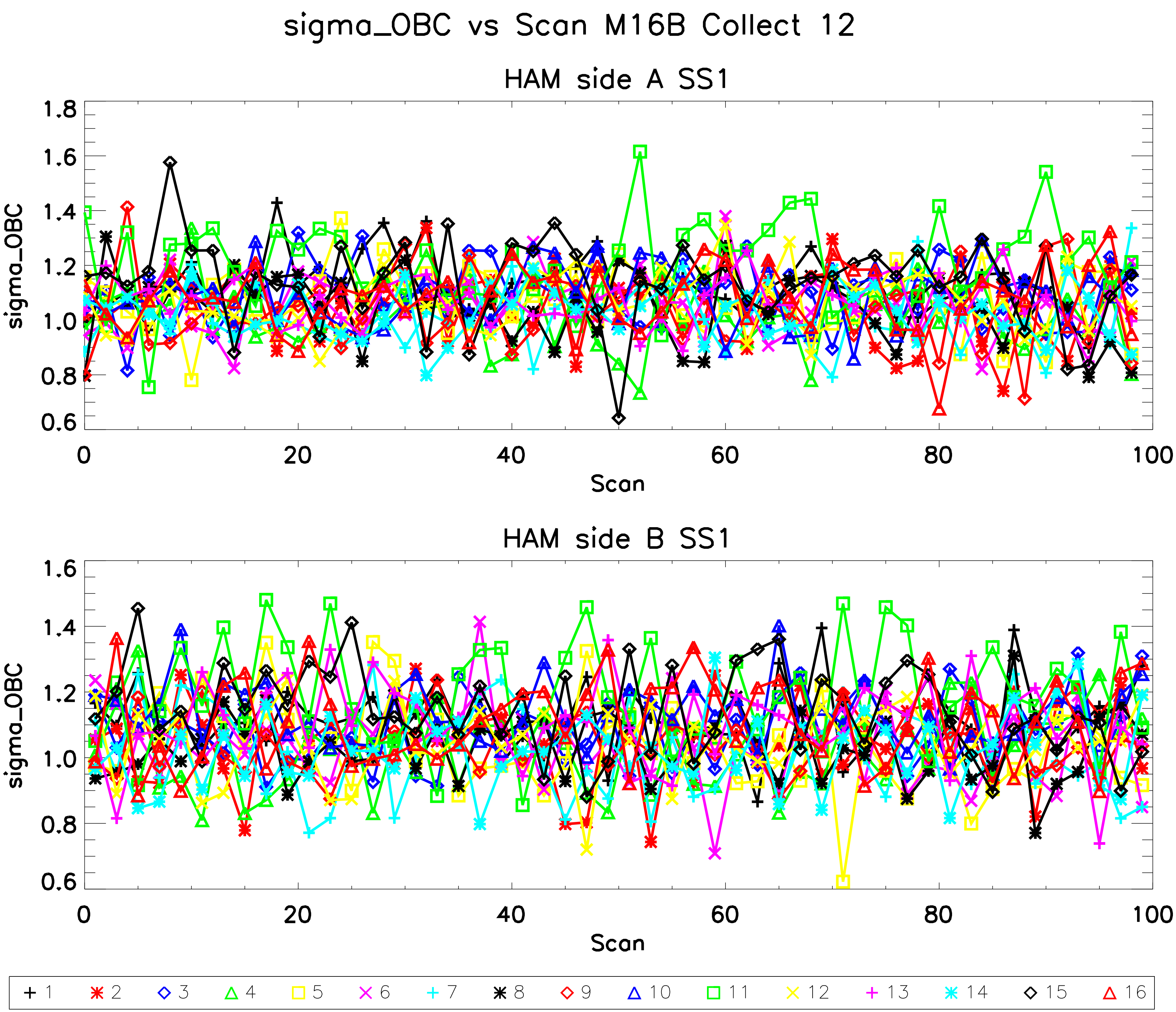



sigma_OBC vs Scan M15 Collect 12
HAM side A SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.2
1.0
0.8
0.6
0.4
0
20
40
60
80
100
Scan
+ 1
✱ 2
◇ 3
△ 4
□ 5
× 6
+ 7
✱ 8
◇ 9
△ 10
□ 11
× 12
+ 13
✱ 14
◇ 15
△ 16


sigma_OBC vs Scan M16A Collect 12

HAM side A SS1

HAM side B SS1


sigma_OBC vs Scan M16B Collect 12
HAM side A SS1
sigma_OBC
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
HAM side B SS1
sigma_OBC
1.6
1.4
1.2
1.0
0.8
0.6
0
20
40
60
80
100
Scan
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16