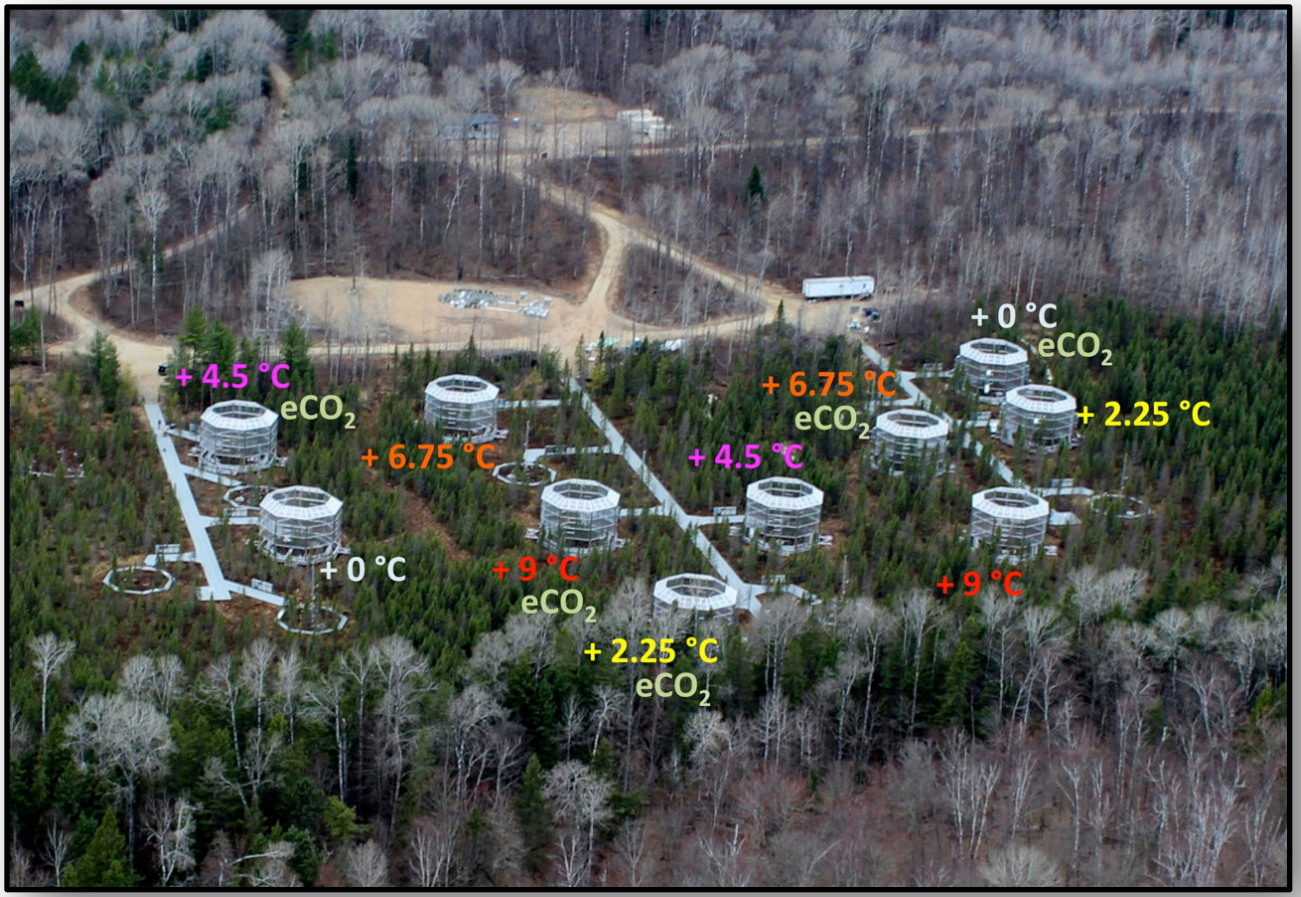
Tree and Equipment Positions For SPRUCE Plots and Enclosures

Paul J. Hanson

4 May 2016

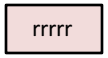


Legend for the Plot Maps (shown over a 1 x 1 m square grid)

1. Tree locations are approximate (circle diameter is dbh – scale shown)
2. Temporary bridge locations =
3. Heater casings =
4. CO2/CH4 Flux collar =
5. Minirhizotron installations = Mr or AMr
6. Coring location Aug2012 and June 2014 = CC C CC C C_{kb}
7. Tower location =
8. Guy wire =
9. Water Table Depth Well =
10. 0.5 m Temp/RH = 0.5
11. Water sampling Array
12. Elevation Standard

Legend for the Plot Maps (continued)

13. Community Plots (corner stakes marked)

14. Resin Arrays 

15. Ingrowth Cores

16. Small-diameter water sampling Array

17. Finzi Hummock and Hollow collars

18. Belowground Temperature Probes

19. NPP Clipped Plots

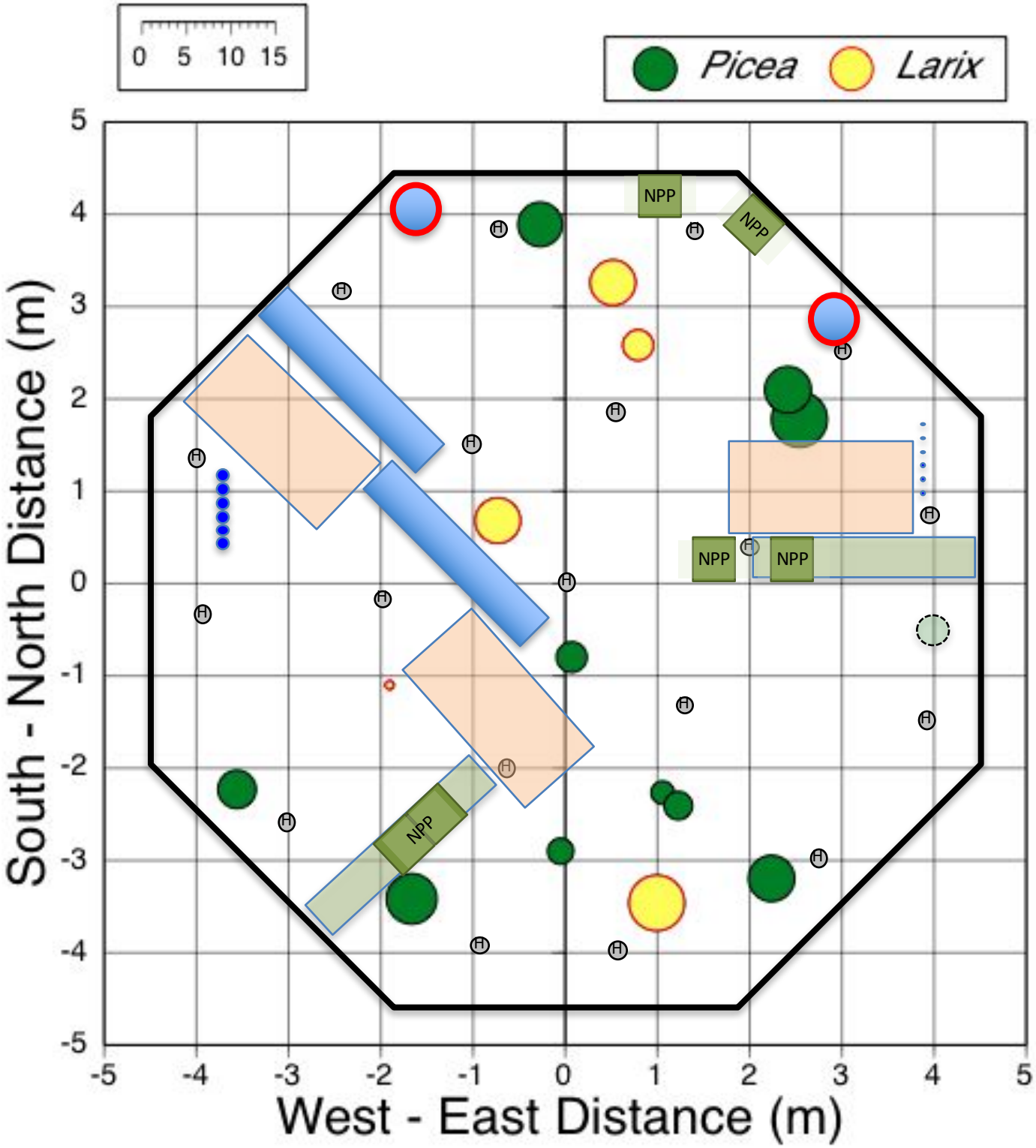
20. Junction Box

21. Sap/Dendro Box

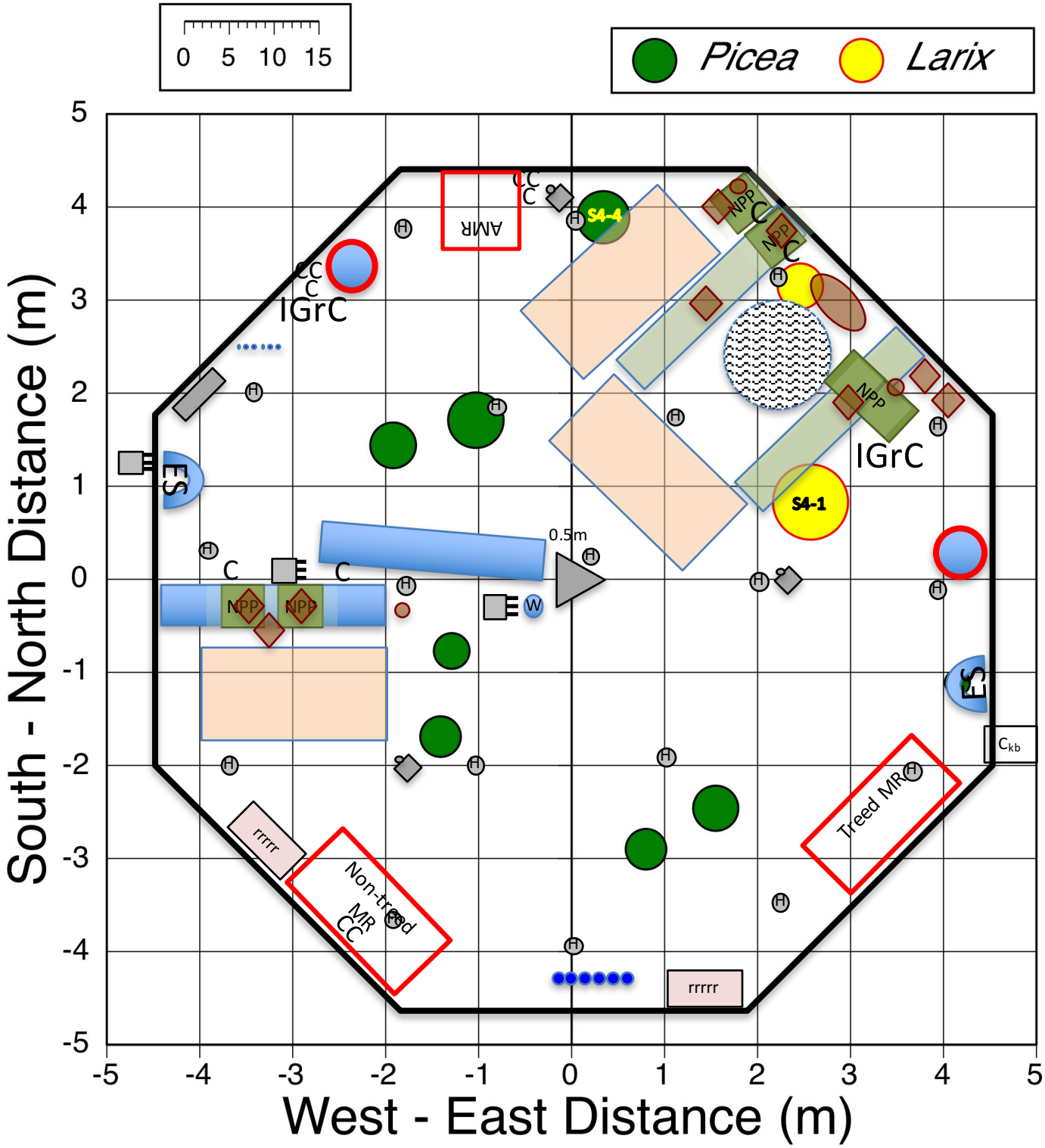
22. Decomposition Sample Areas

Symbol sizes on the maps are scaled to the 1 x 1 m grid. Tree circle diameters are not to scale. Clipped NPP plots under the entry temporary boardwalks are not represented.

Plot #2
Ambient

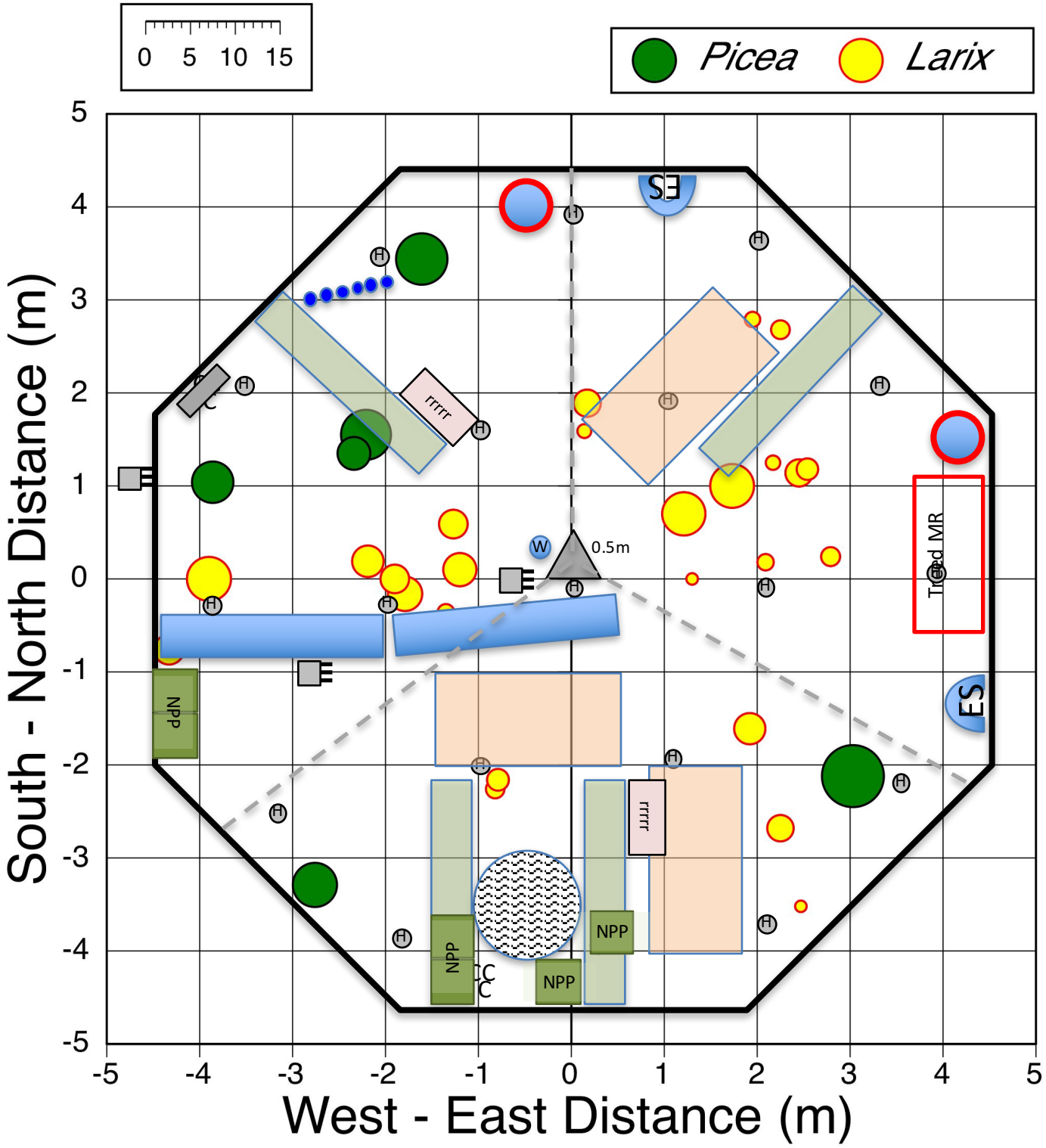


Plot #4
+4.5 °C

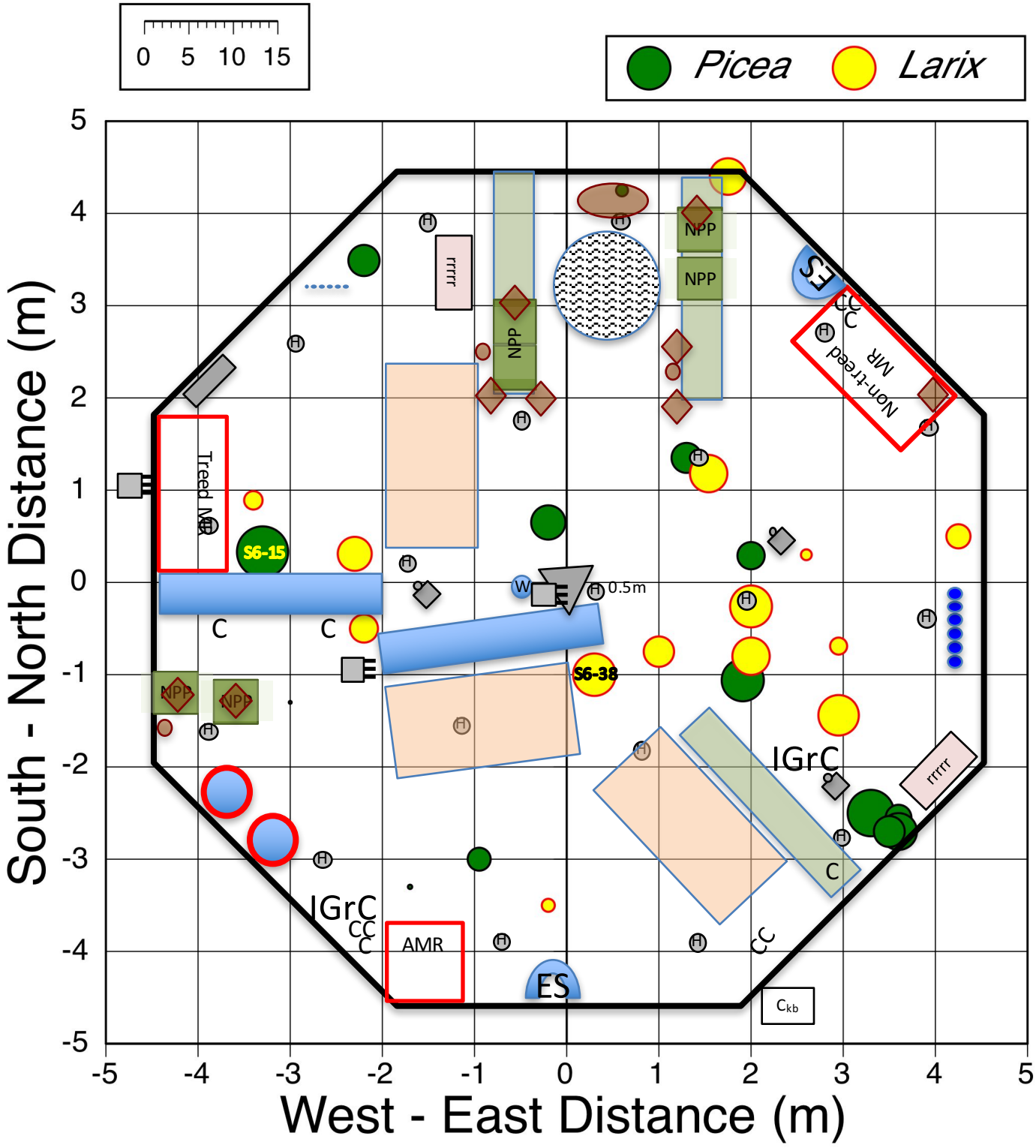


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
AMR
S4-4
S4-1
IGrC
IGrC
NPP
NPP
NPP
NPP
NPP
C
C
C
C
C
ES
ES
0.5m
W
rrrrr
rrrrr
Non-treed MR
CC
Treed MR
Ckb

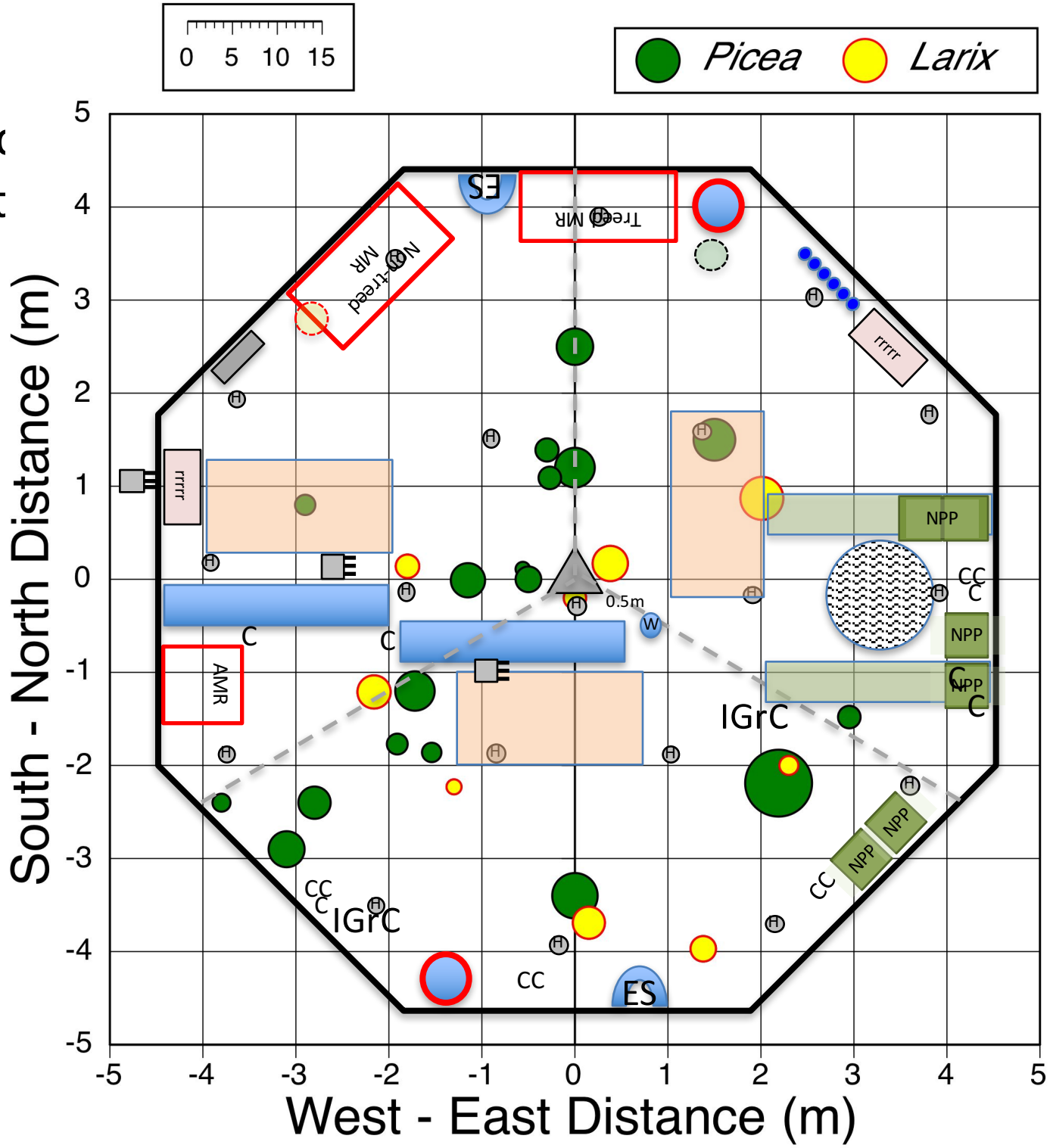
Plot #5
Ambient



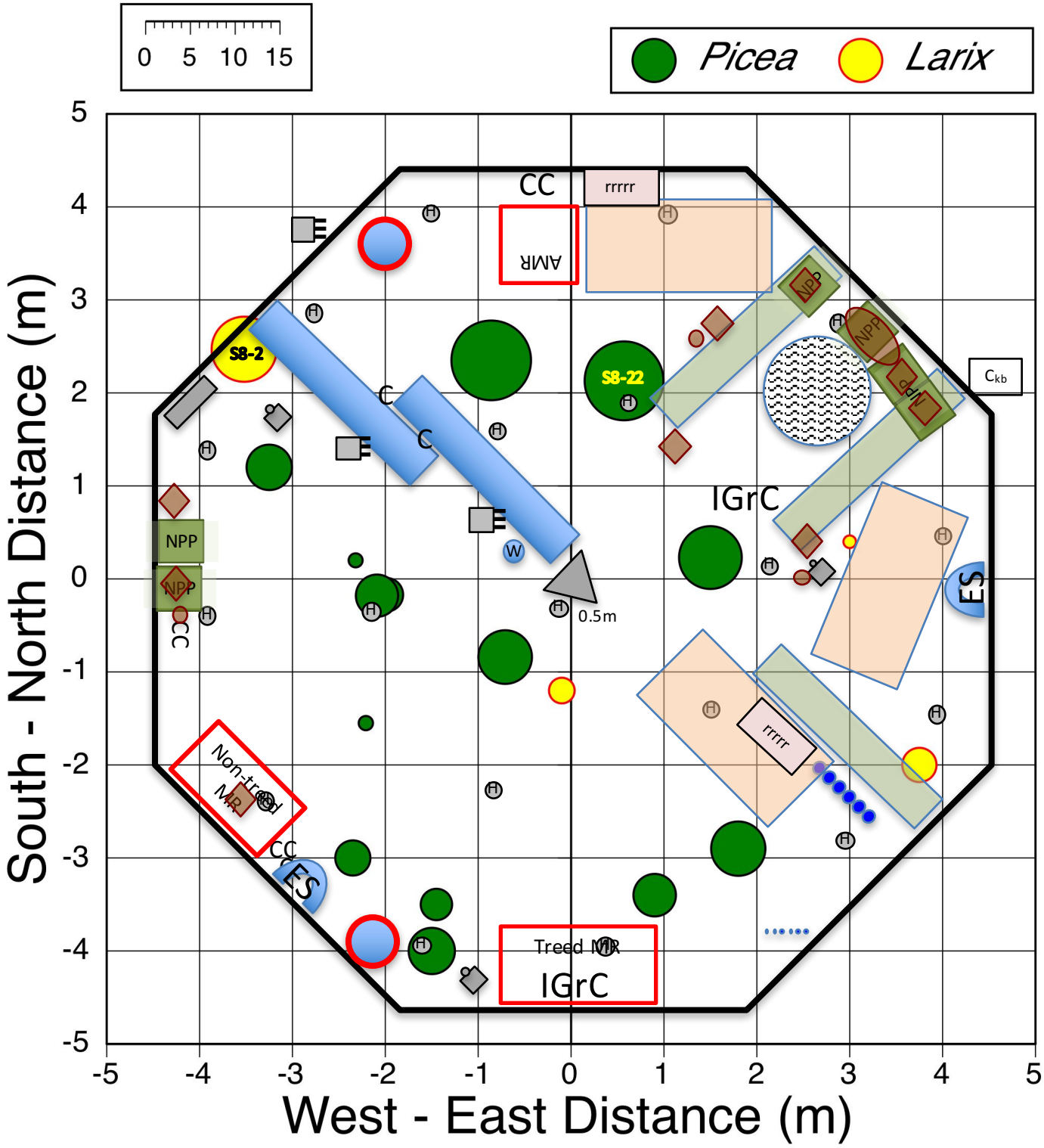
Plot #6
Control
+0 °C



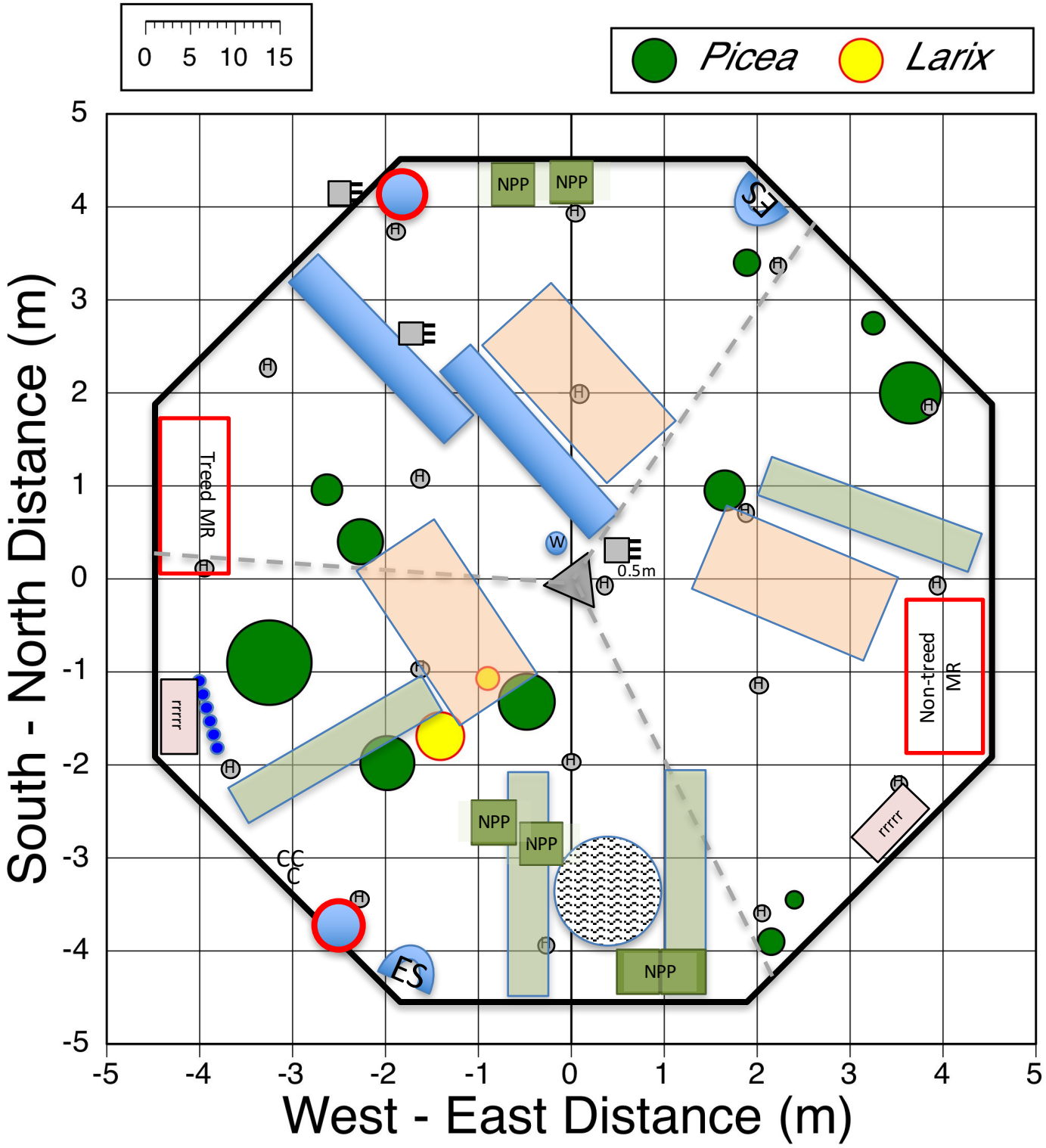
Plot #7
Measured
Ambient



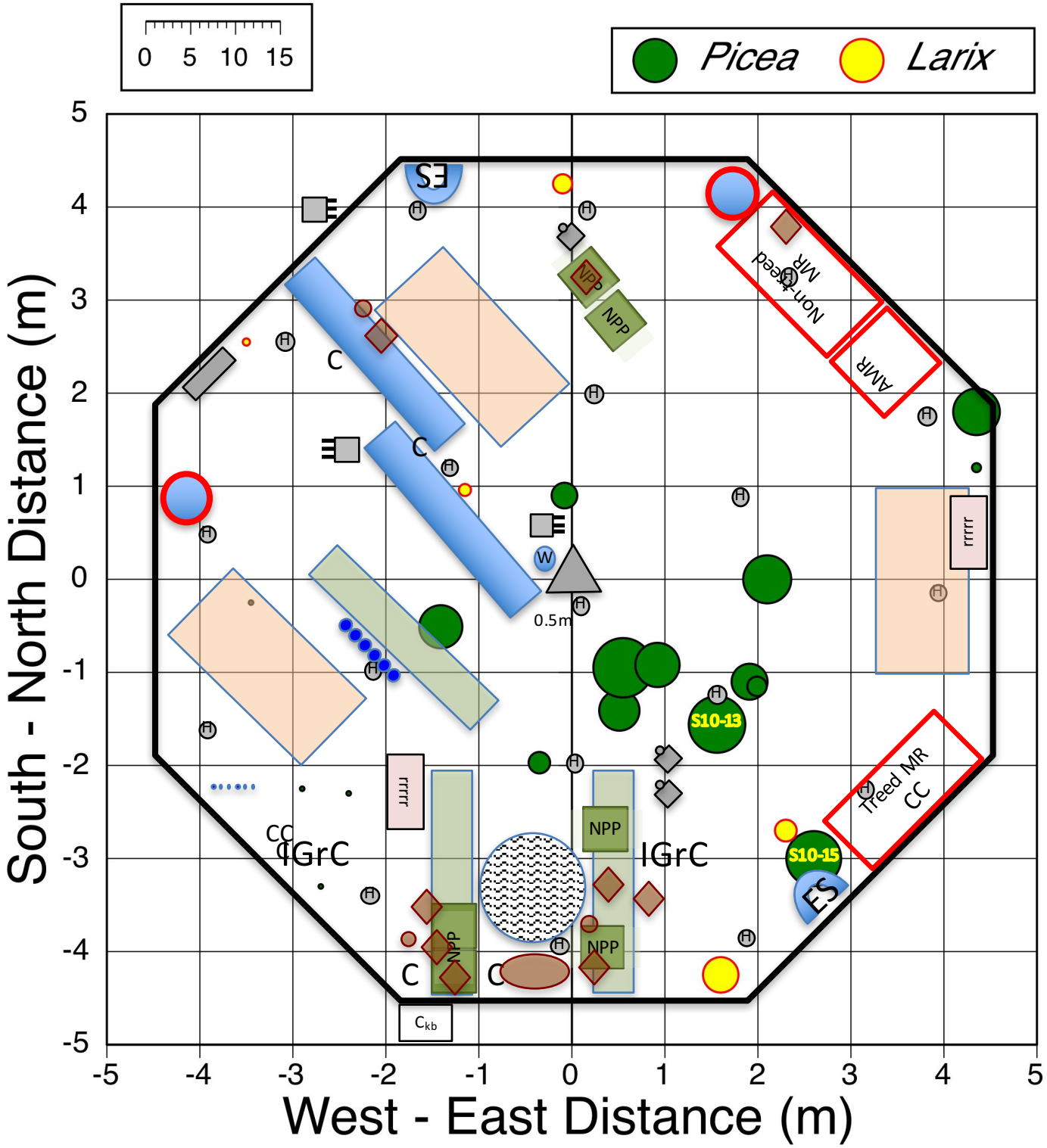
Plot #8
+6.75 °C


0 5 10 15
Picea
Larix
CC
rrrrr
AMR
S8-2
S8-22
C
C
NPP
NPP
NPP
NPP
Ckb
IGrC
W
0.5m
ES
NPP
NPP
CC
rrrrr
Non-treed MR
CC
ES
Treed MR
IGrC
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5

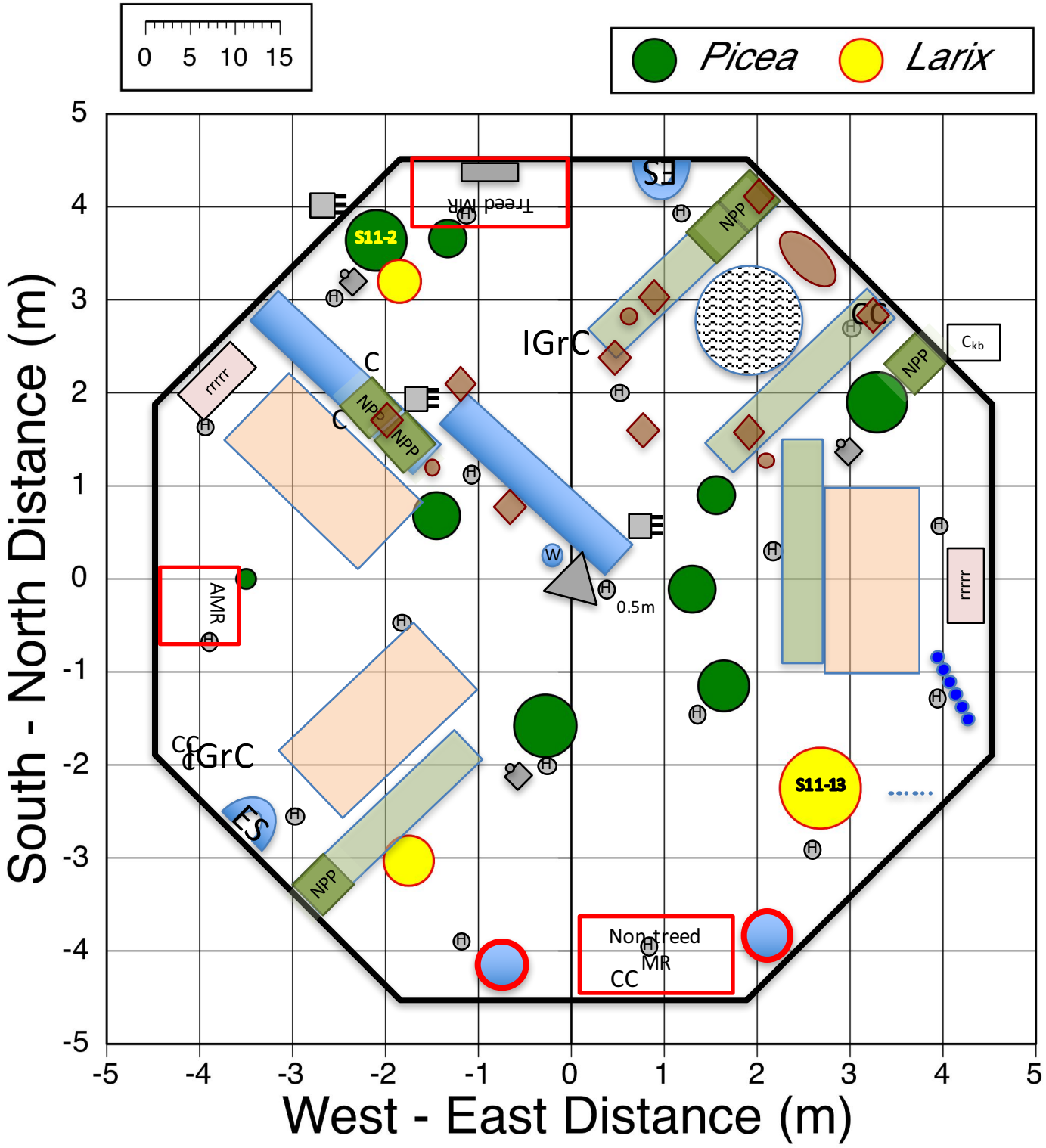
Plot #9
Ambient



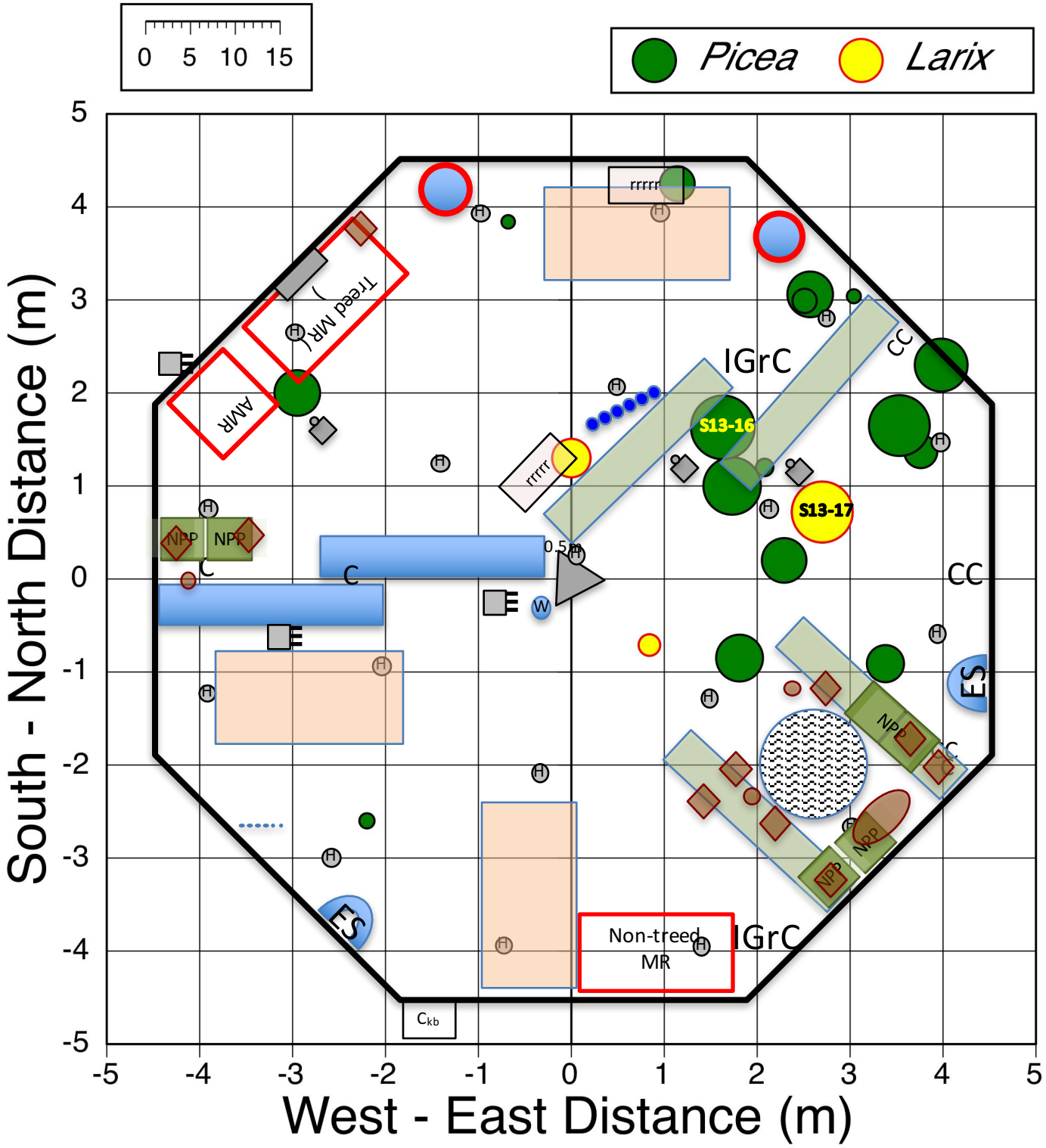
Plot #10
+9 °C


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
ES
C
C
W
0.5m
NPP
NPP
Non-Treed MR
AMR
rrrrr
S10-13
Treed MR CC
S10-15
ES
rrrrr
CC
IGrC
IGrC
NPP
NPP
NPP
C
C
Ckb

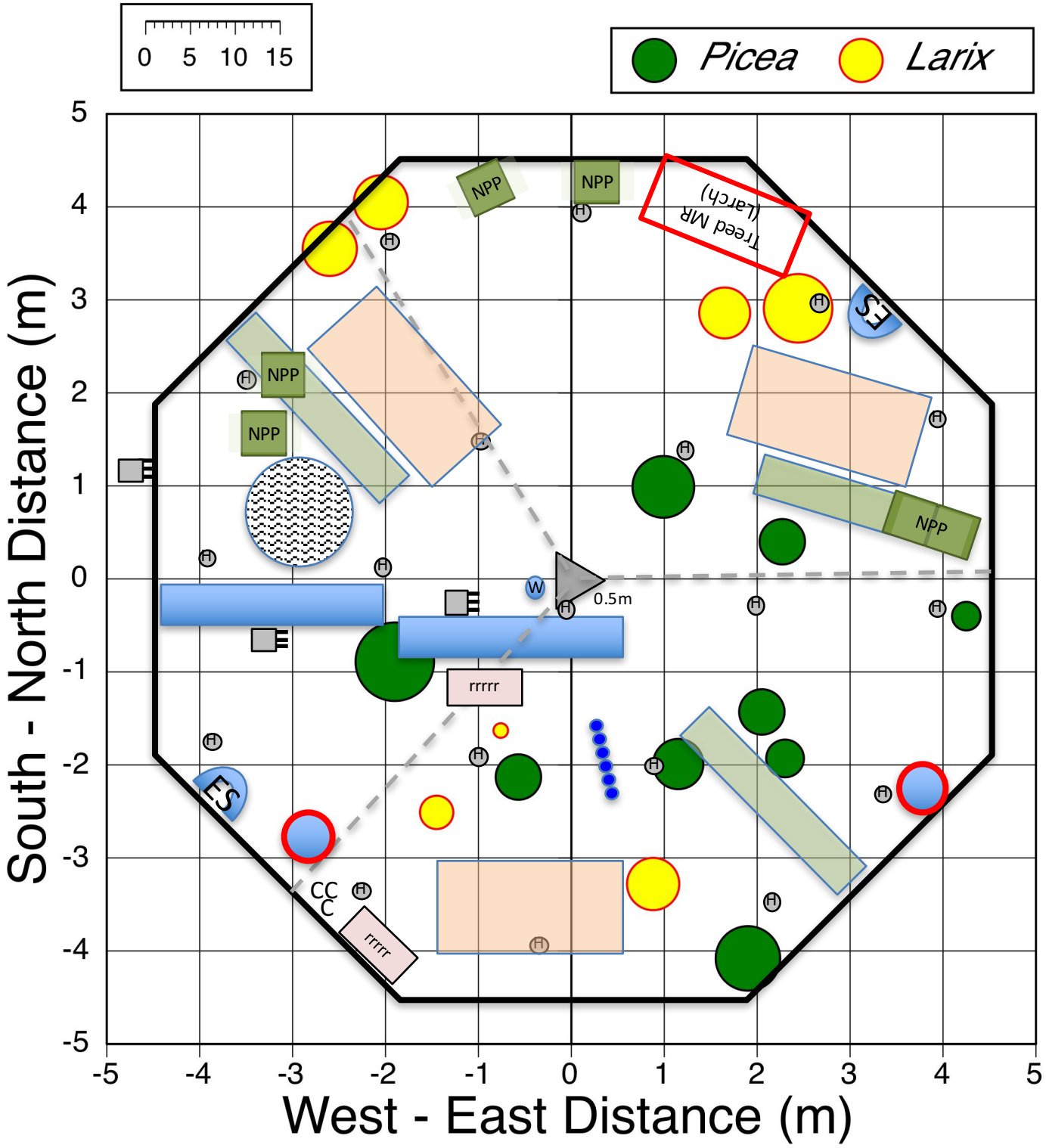
Plot #11
+2.25 °C


0 5 10 15
Picea
Larix
S11-2
Treed MR
ES
NPP
IGrC
C
CC
Ckb
rrrrr
AMR
W
0.5m
CGrC
S11-13
Non-treed
MR
CC
South - North Distance (m)
West - East Distance (m)

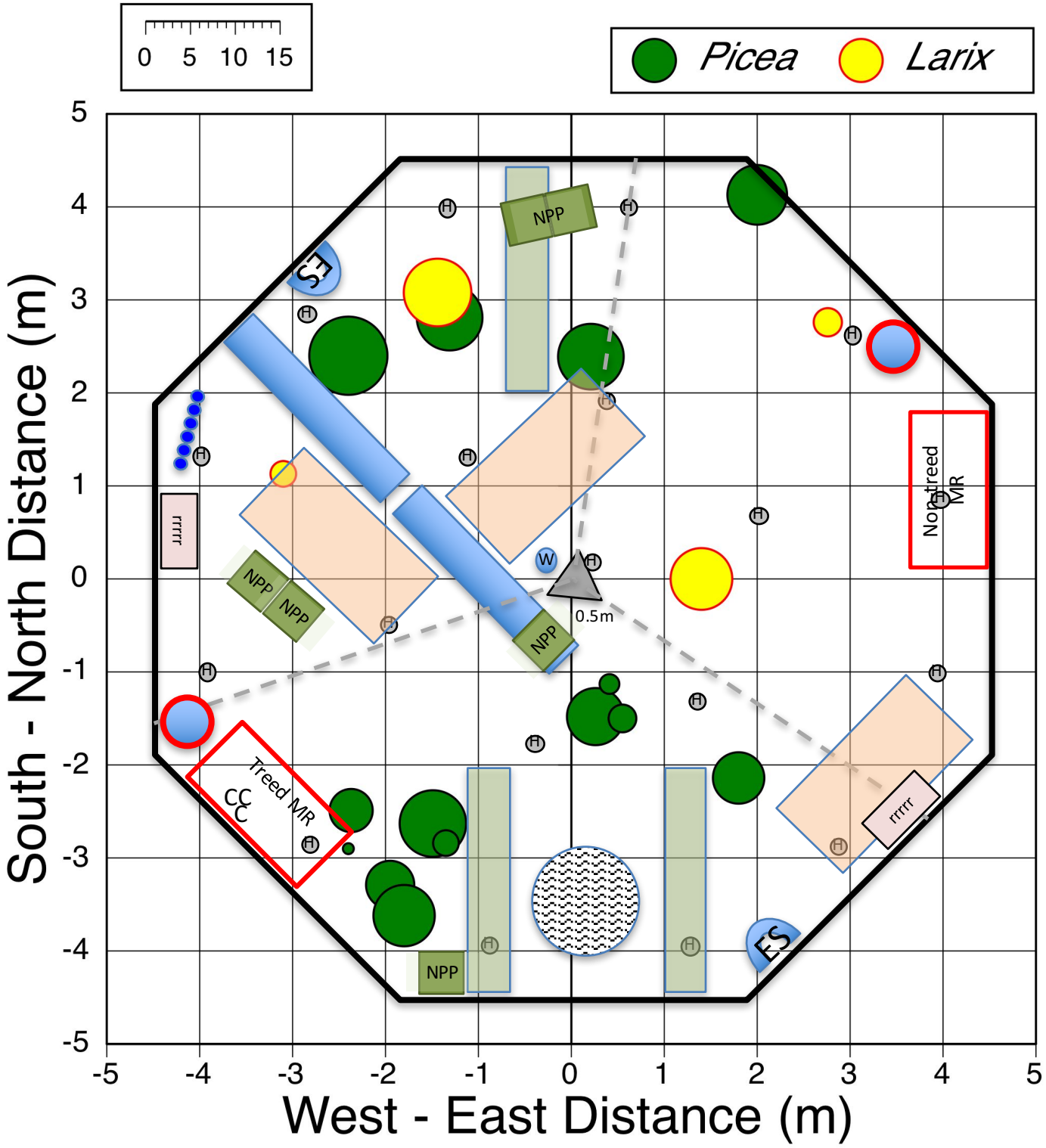
Plot #13
+4.5 °C


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
Treed MR
AMR
rrrrr
rrrrr
IGrC
CC
S13-16
S13-17
NPP
NPP
C
C
0.5m
W
CC
ES
ES
NPP
NPP
NPP
C
Non-treed
MR
IGrC
Ckb

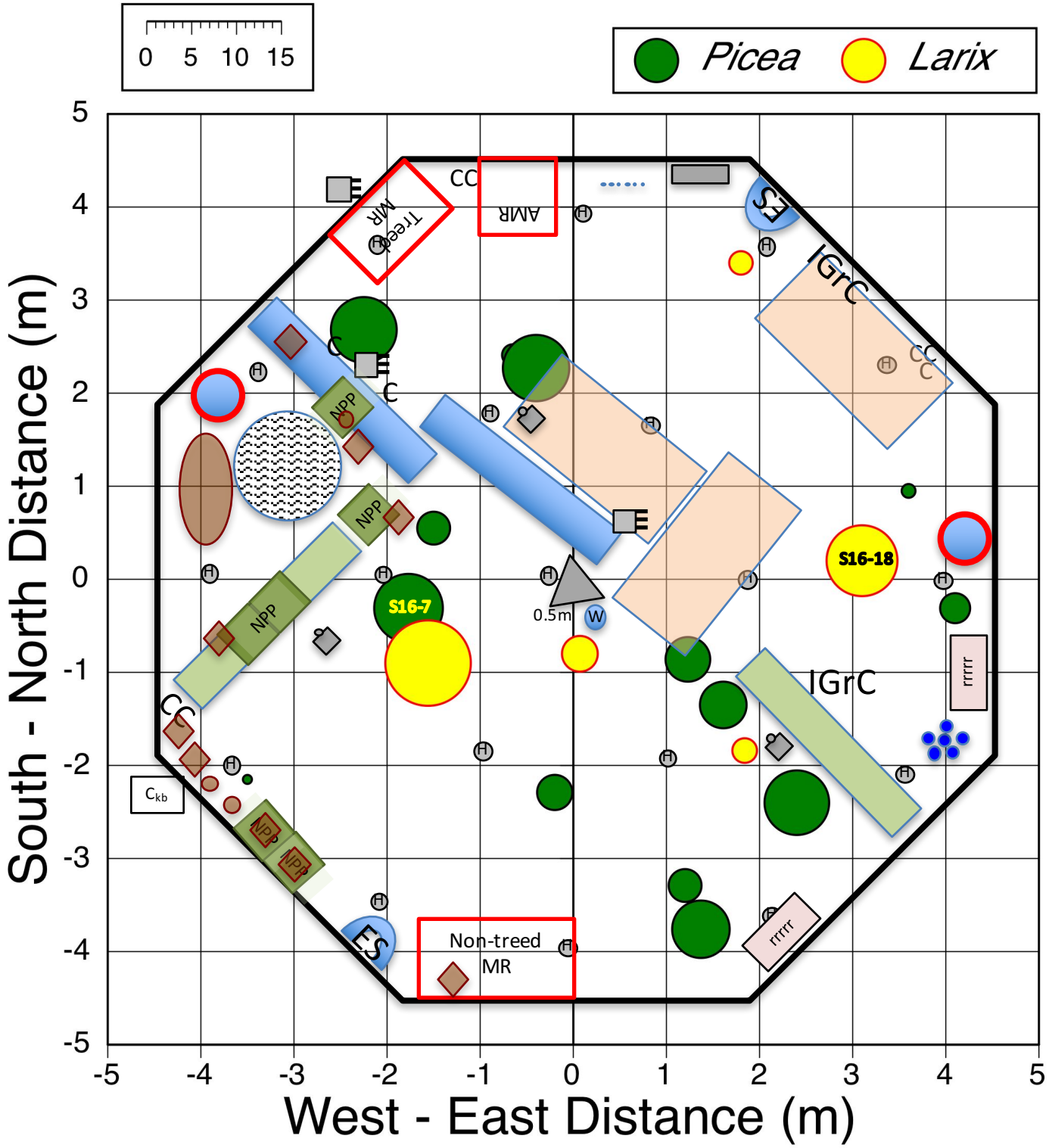
Plot #14
Ambient



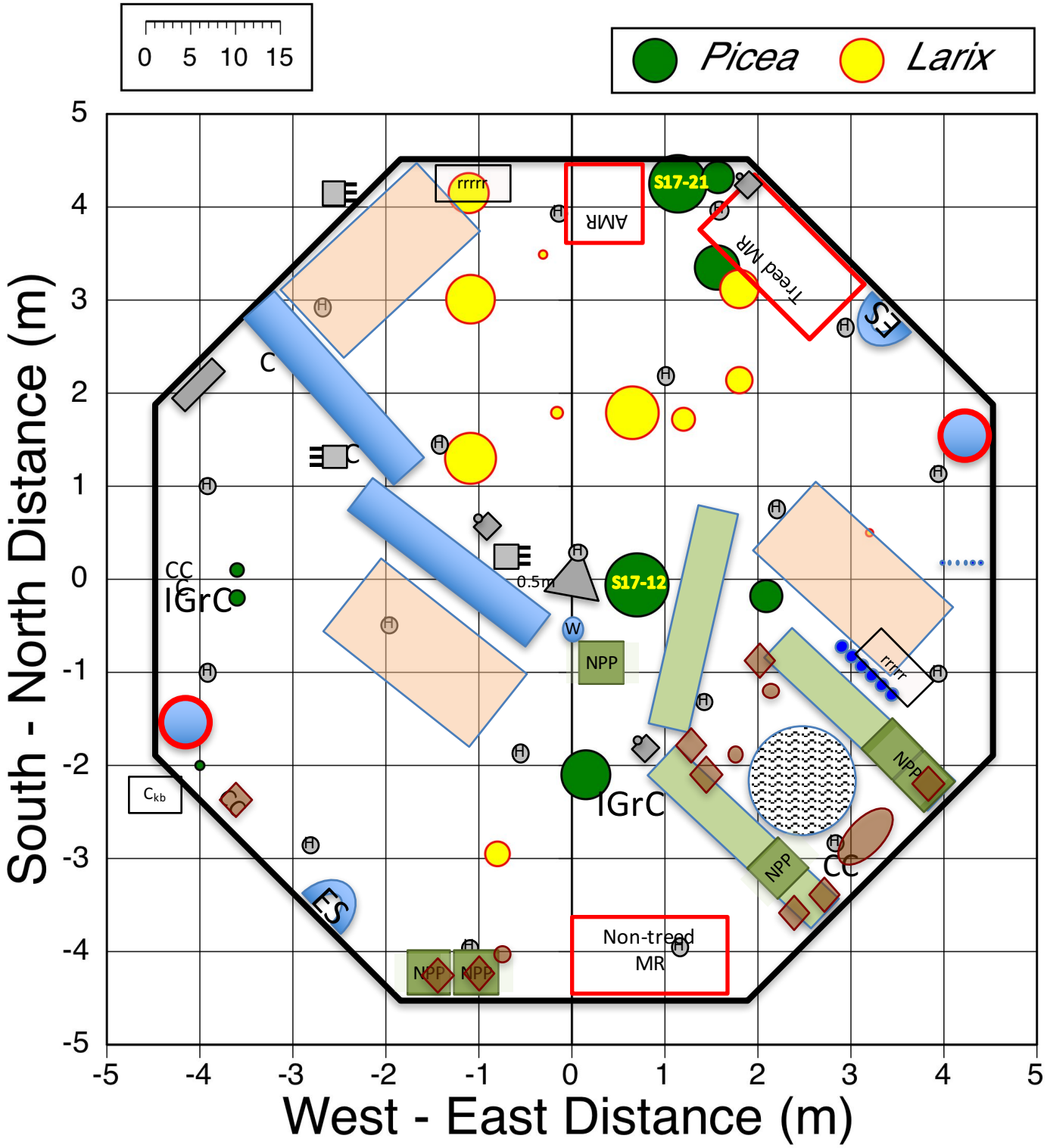
Plot #15
Ambient



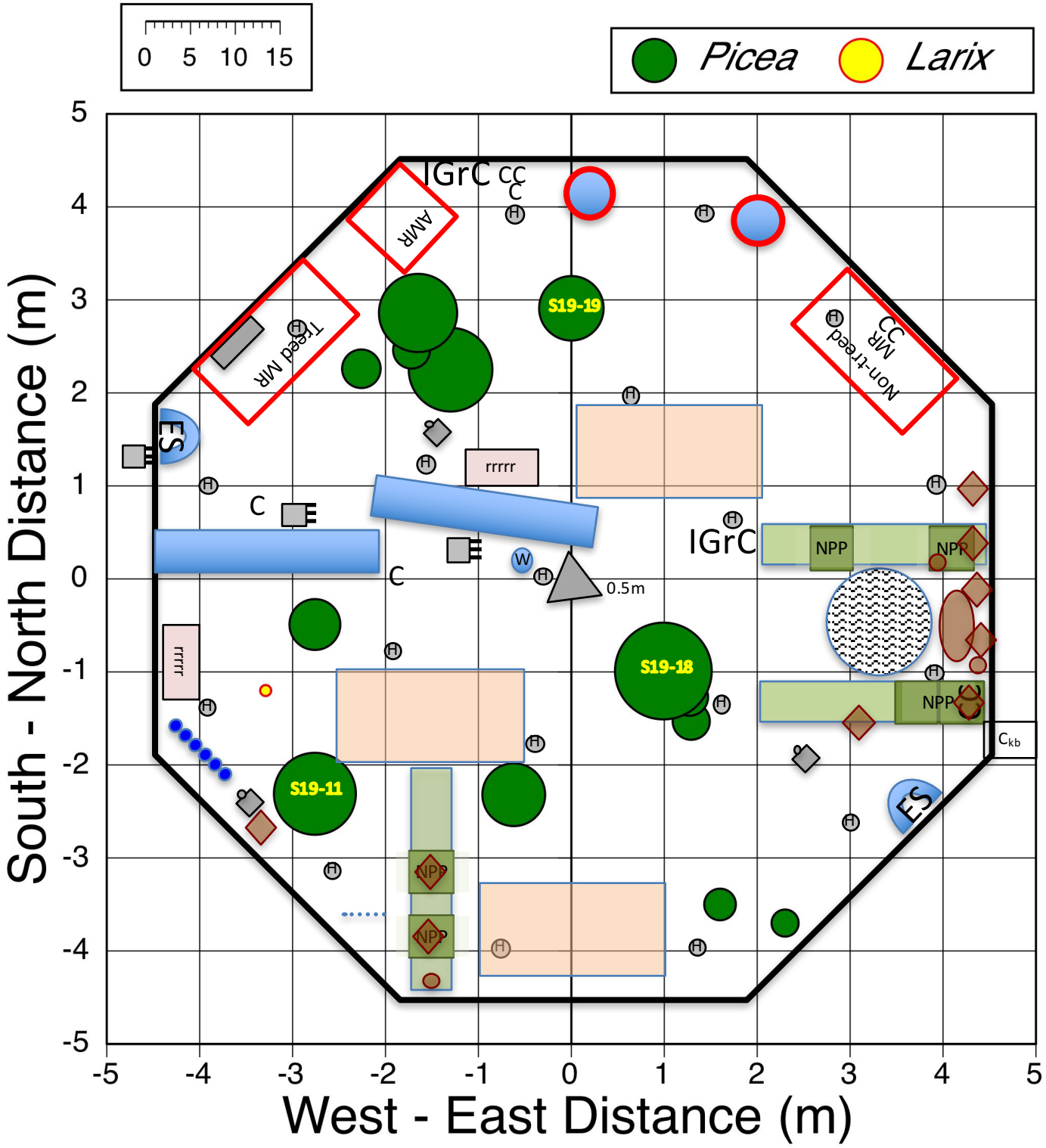
Plot #16
+6.75 °C


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
CC
AMR
Treed MR
ES
IGrC
C
NPP
S16-7
S16-18
0.5m
W
IGrC
rrrrr
rrrrr
Ckb
Non-treed
MR

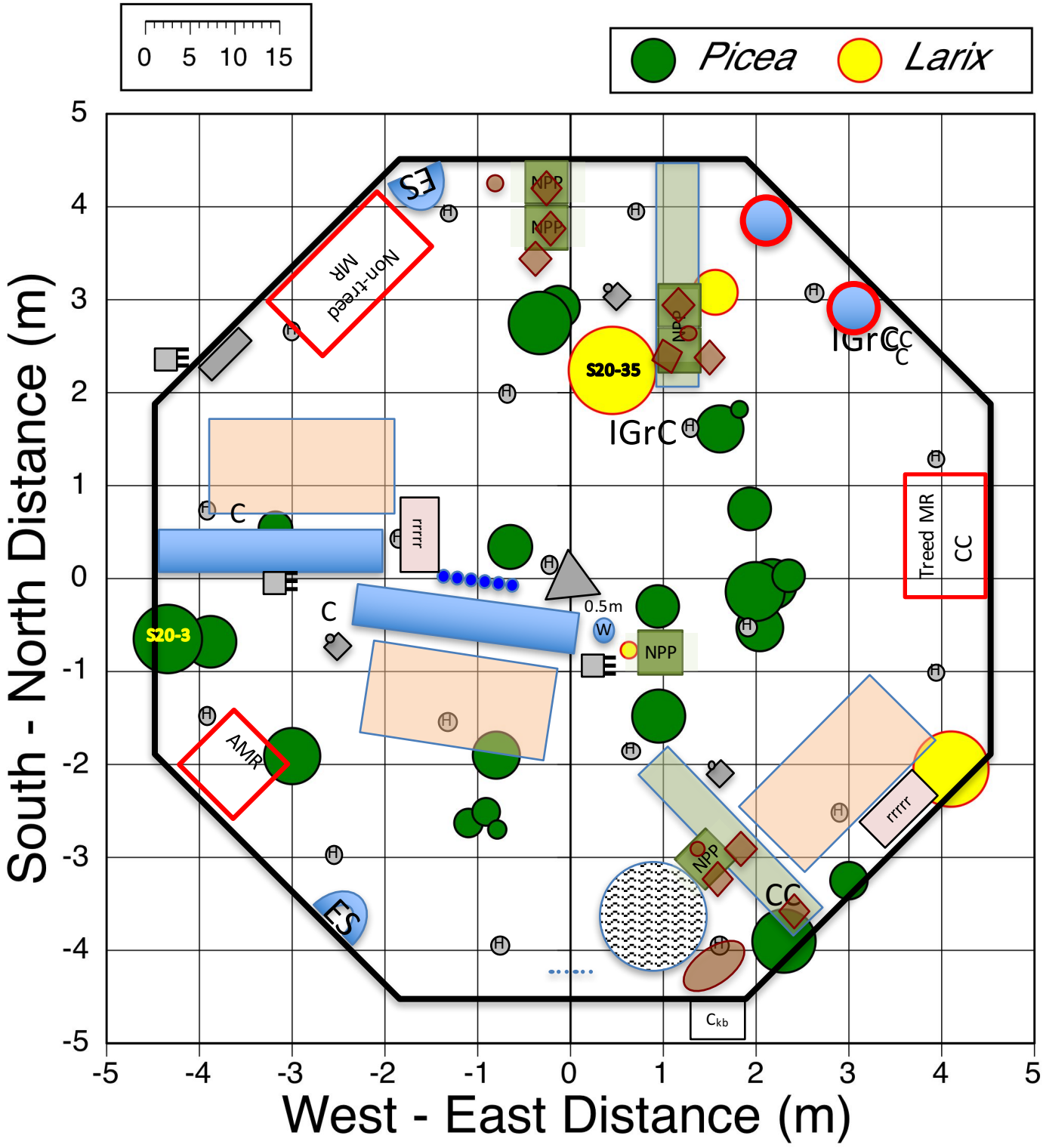
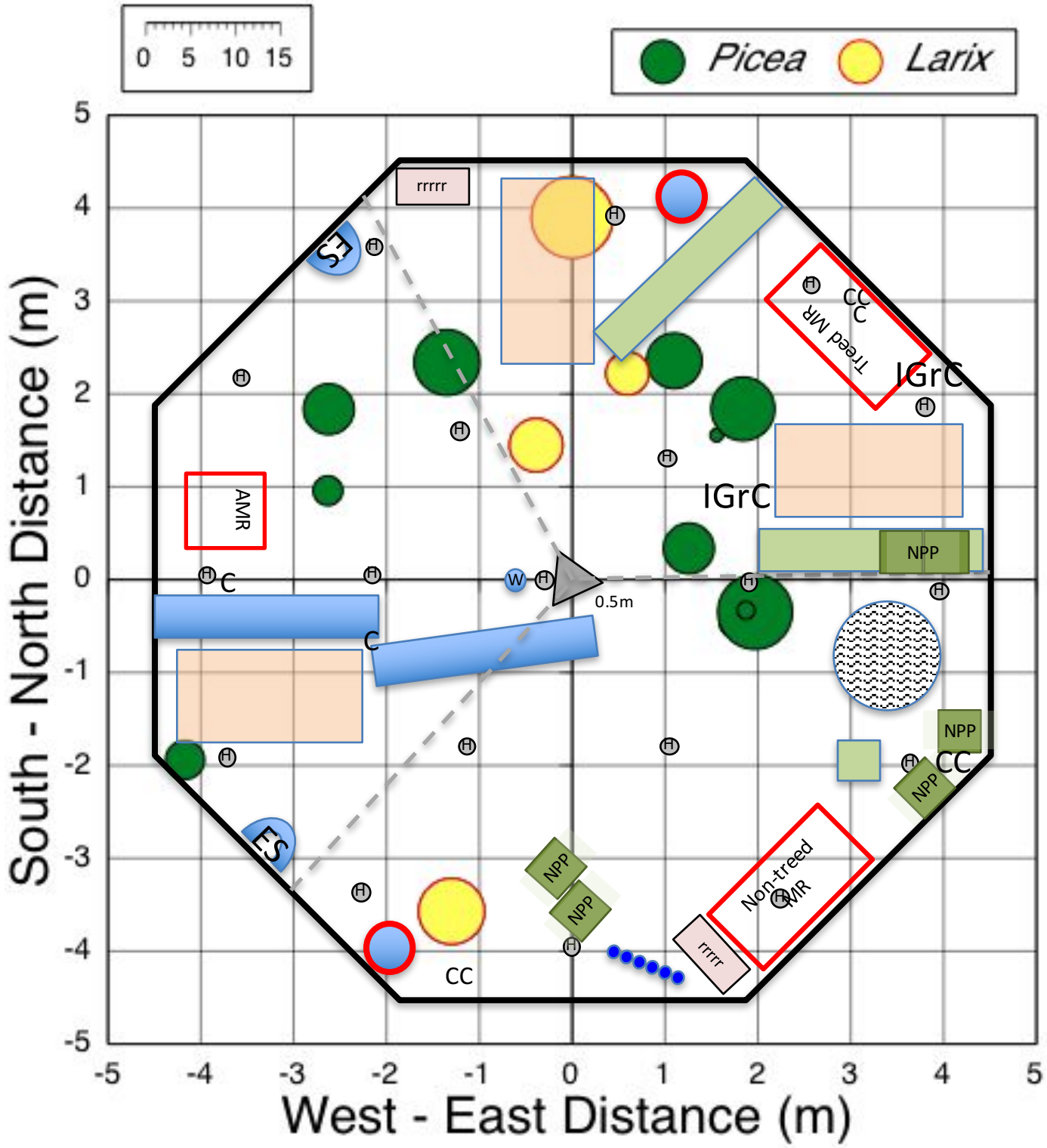
Plot #17
+9 °C


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
rrrrr
AMR
S17-21
Treed MR
ES
C
CC
lGrC
0.5m
S17-12
W
NPP
rrrrr
NPP
lGrC
CC
NPP
Ckb
CC
ES
NPP
NPP
Non-treed
MR

Plot #19
Control
+0 °C



Plot #20
+2.25 °C


0 5 10 15
Picea
Larix
South - North Distance (m)
West - East Distance (m)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 0 1 2 3 4 5
ES
Non-treed MR
NPP
NPP
NPP
S20-35
lGrC
CC
C
C
rrrrr
Treed MR
CC
0.5m
W
S20-3
NPP
AMR
rrrrr
NPP
CC
ES
Ckb

Plot #21
Measured
Ambient