

APPENDIX B

RESULTS FOR SOUTHEAST-FACING PV ARRAYS

Glare Analysis Results

Summary of Results Glare with low potential for temporary after-image predicted

PV Array	Tilt °	Orient °	Annual Green Glare		Annual Yellow Glare		Energy kWh	Peak Luminance
			min	hr	min	hr		cd/m ²
PV array 1	10.0	137.0	57,729	962.1	0	0.0	-	50,101
PV array 2	10.0	137.0	51,061	851.0	0	0.0	-	2,254
PV array 3	10.0	137.0	50,393	839.9	0	0.0	-	3,819
PV array 4	10.0	137.0	58,821	980.4	0	0.0	-	71,150
PV array 5	10.0	137.0	50,044	834.1	0	0.0	-	3,853

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
1000Ft- GA_5L23R_05L- L_23R-R	15,683	261.4	0	0.0
1000Ft- GA_5L23R_05L- R_23R-L	48,027	800.5	0	0.0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0
1000Ft- GA_5R23L_05R- R_23L-L	32,872	547.9	0	0.0
1500Ft- CA_5L23R_05L- L_23R-R	25,368	422.8	0	0.0
1500Ft- CA_5L23R_05L- R_23R-L	41,002	683.4	0	0.0
Approach_05L	0	0.0	0	0.0
Approach_05R	0	0.0	0	0.0
Approach_23L	30,674	511.2	0	0.0
Approach_23R	30,726	512.1	0	0.0
1-ATCT	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	6,846	114.1	0	0.0
OP 7	2,890	48.2	0	0.0

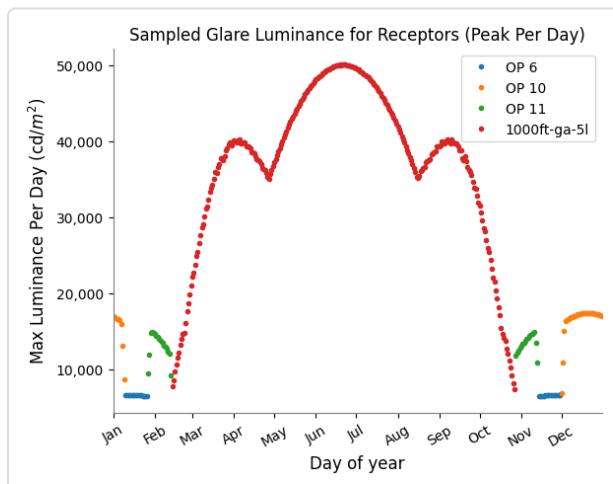
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 8	0	0.0	0	0.0
OP 9	2,273	37.9	0	0.0
OP 10	2,349	39.1	0	0.0
OP 11	3,799	63.3	0	0.0
OP 12	2,468	41.1	0	0.0
OP 13	2,223	37.0	0	0.0
OP 14	2,227	37.1	0	0.0
OP 15	2,640	44.0	0	0.0
OP 16	3,518	58.6	0	0.0
OP 17	3,489	58.1	0	0.0
OP 18	2,868	47.8	0	0.0
OP 19	2,634	43.9	0	0.0
OP 20	2,818	47.0	0	0.0
OP 21	654	10.9	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	0	0.0	0	0.0
OP 25	0	0.0	0	0.0
OP 26	0	0.0	0	0.0
OP 27	0	0.0	0	0.0
OP 28	0	0.0	0	0.0
OP 29	0	0.0	0	0.0
OP 30	0	0.0	0	0.0
OP 31	0	0.0	0	0.0
OP 32	0	0.0	0	0.0
OP 33	0	0.0	0	0.0
OP 34	0	0.0	0	0.0
OP 35	0	0.0	0	0.0
OP 36	0	0.0	0	0.0
OP 37	0	0.0	0	0.0
OP 38	0	0.0	0	0.0
OP 39	0	0.0	0	0.0
OP 40	0	0.0	0	0.0

PV: PV array 1 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
1000Ft- GA_5L23R_05L- L_23R-R	3,145	52.4	0	0.0	8,206
1000Ft- GA_5L23R_05L- R_23R-L	10,861	181.0	0	0.0	50,101
1000Ft- GA_5R23L_05R- R_23L-L	7,217	120.3	0	0.0	33,173
1500Ft- CA_5L23R_05L- L_23R-R	5,068	84.5	0	0.0	8,155
1500Ft- CA_5L23R_05L- R_23R-L	8,368	139.5	0	0.0	8,155
Approach_23L	6,123	102.0	0	0.0	5,864
Approach_23R	6,171	102.8	0	0.0	8,164
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
Approach_05L	0	0.0	0	0.0	0
Approach_05R	0	0.0	0	0.0	0
OP 6	1,396	23.3	0	0.0	6,666
OP 7	598	10.0	0	0.0	4,366
OP 9	873	14.6	0	0.0	11,641
OP 10	984	16.4	0	0.0	17,401
OP 11	812	13.5	0	0.0	14,885
OP 12	535	8.9	0	0.0	9,024
OP 13	481	8.0	0	0.0	5,500
OP 14	539	9.0	0	0.0	7,969
OP 15	660	11.0	0	0.0	15,538
OP 16	1,015	16.9	0	0.0	30,531
OP 17	940	15.7	0	0.0	17,896
OP 18	691	11.5	0	0.0	8,038
OP 19	594	9.9	0	0.0	5,593
OP 20	658	11.0	0	0.0	8,076
1-ATCT	0	0.0	0	0.0	0
OP 2	0	0.0	0	0.0	0

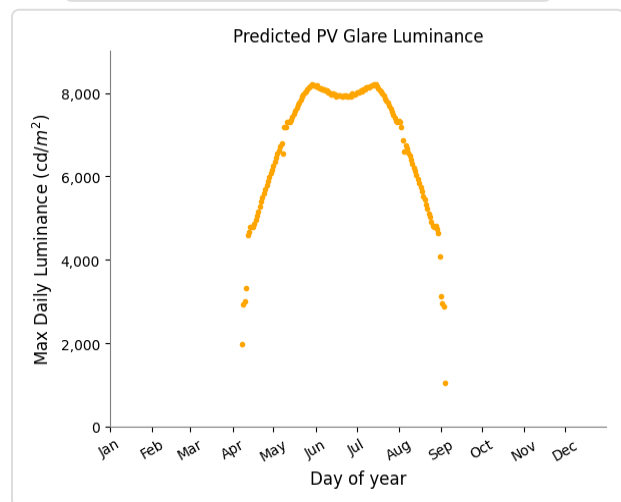
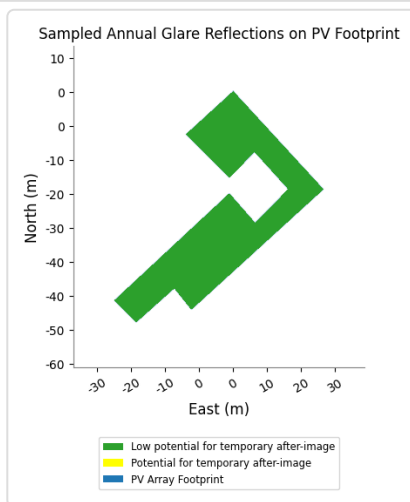
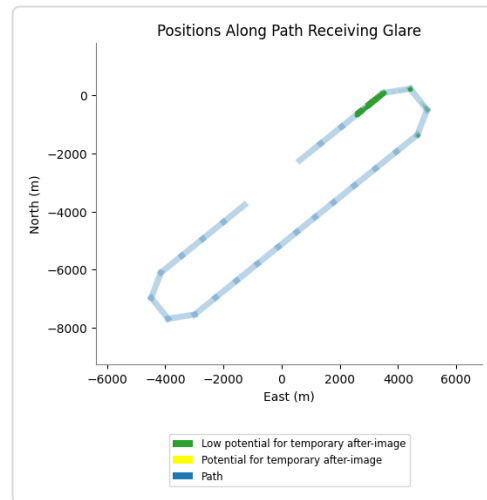
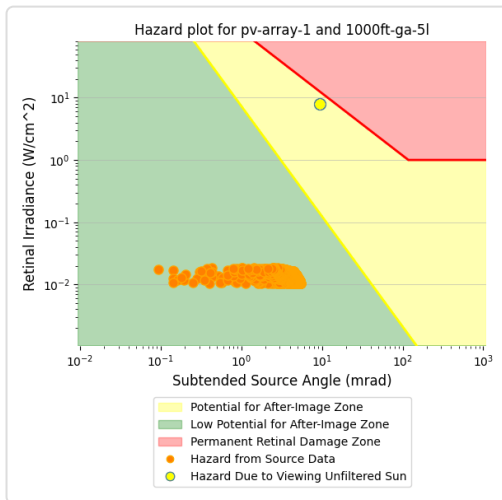
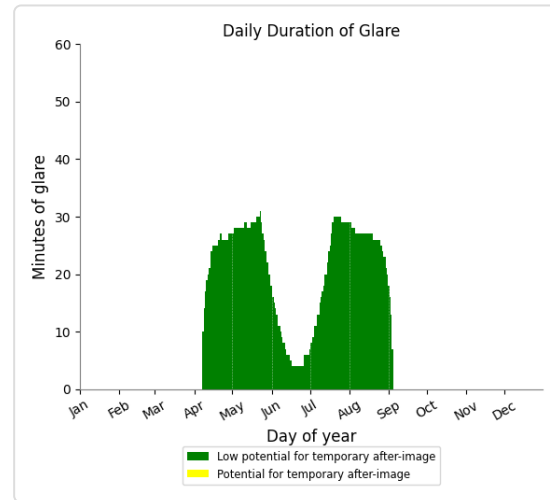
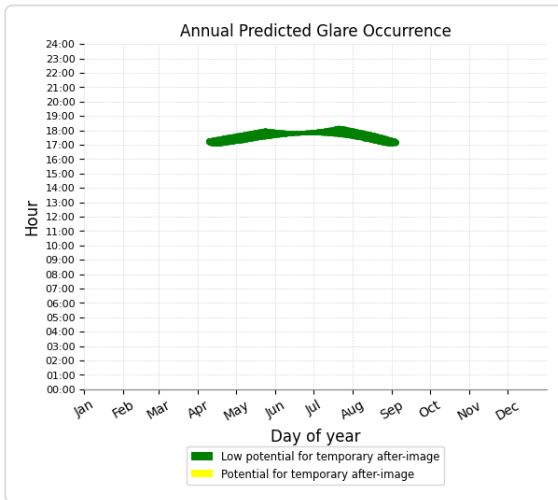
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 3	0	0.0	0	0.0	0
OP 4	0	0.0	0	0.0	0
OP 5	0	0.0	0	0.0	0
OP 8	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 24	0	0.0	0	0.0	0
OP 25	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	0	0.0	0
OP 29	0	0.0	0	0.0	0
OP 30	0	0.0	0	0.0	0
OP 31	0	0.0	0	0.0	0
OP 32	0	0.0	0	0.0	0
OP 33	0	0.0	0	0.0	0
OP 34	0	0.0	0	0.0	0
OP 35	0	0.0	0	0.0	0
OP 36	0	0.0	0	0.0	0
OP 37	0	0.0	0	0.0	0
OP 38	0	0.0	0	0.0	0
OP 39	0	0.0	0	0.0	0
OP 40	0	0.0	0	0.0	0



PV array 1 and Route: 1000Ft-GA_5L23R_05L-L_23R-R

Yellow glare: none

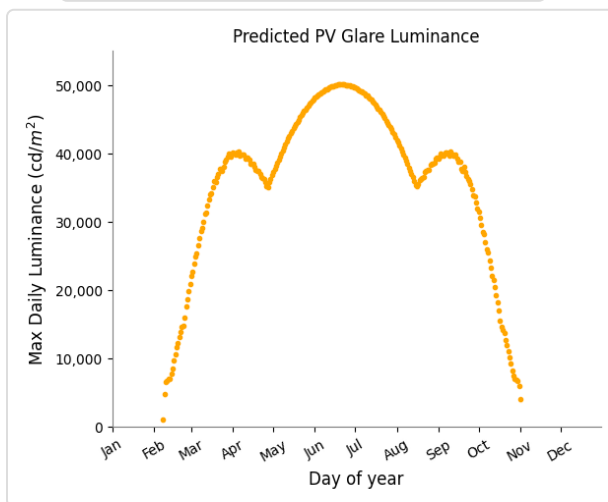
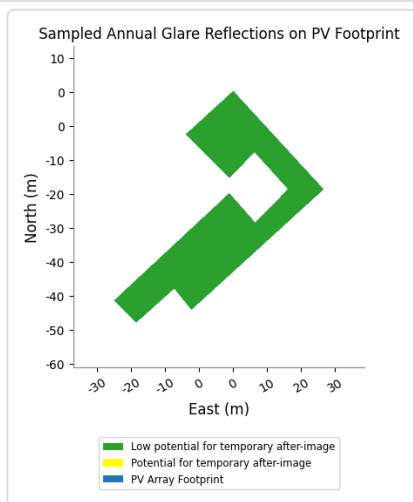
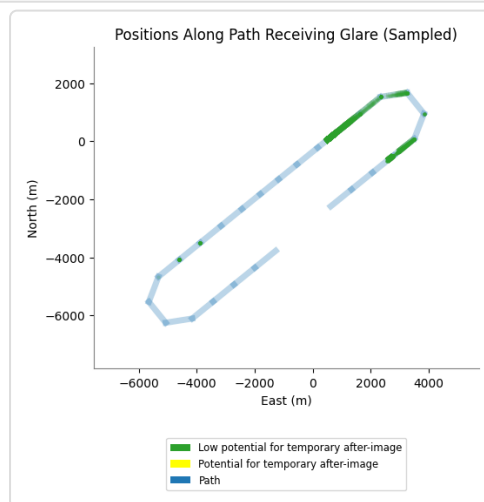
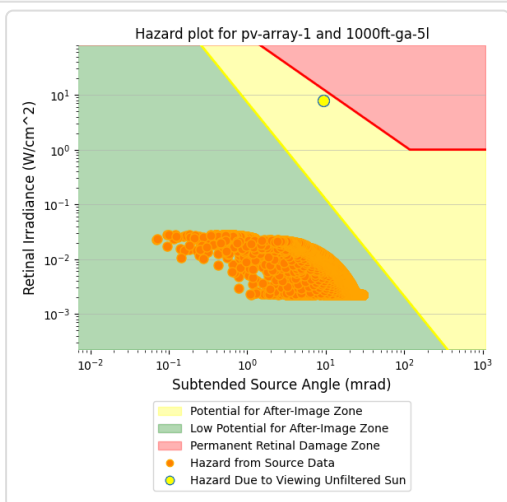
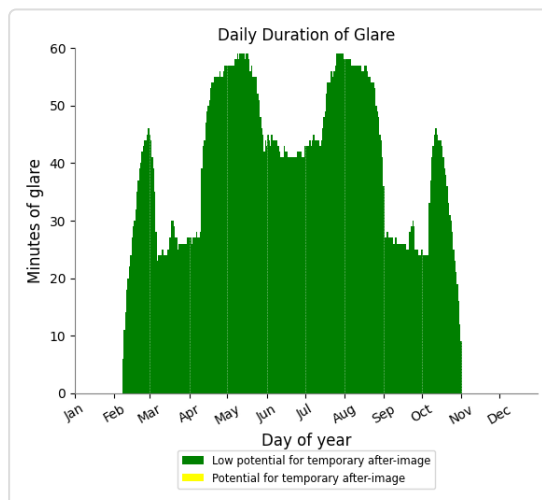
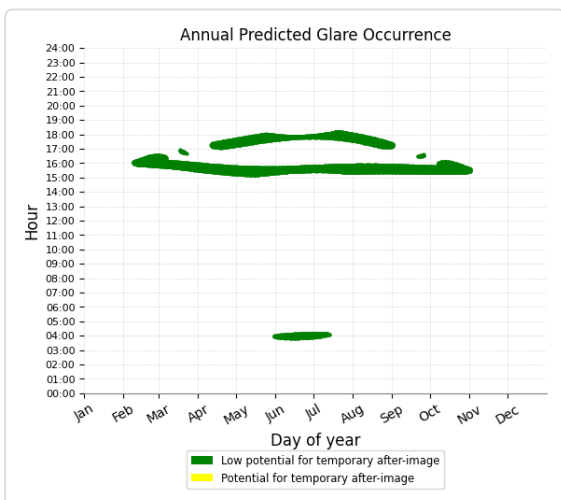
Green glare: 3,145 min.



PV array 1 and Route: 1000Ft-GA_5L23R_05L-R_23R-L

Yellow glare: none

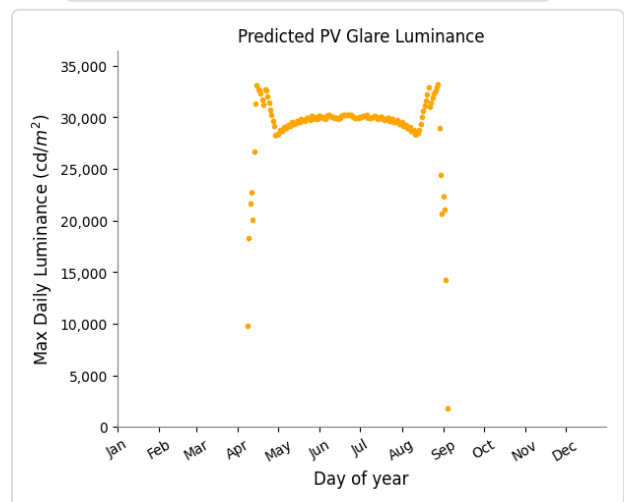
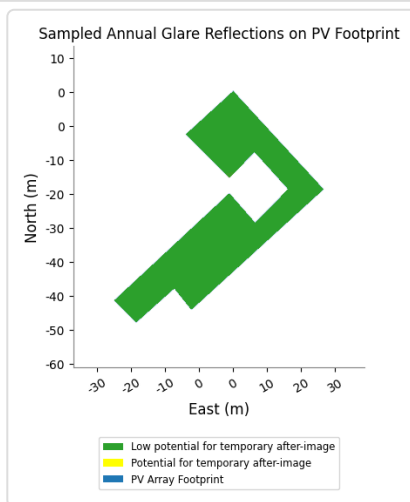
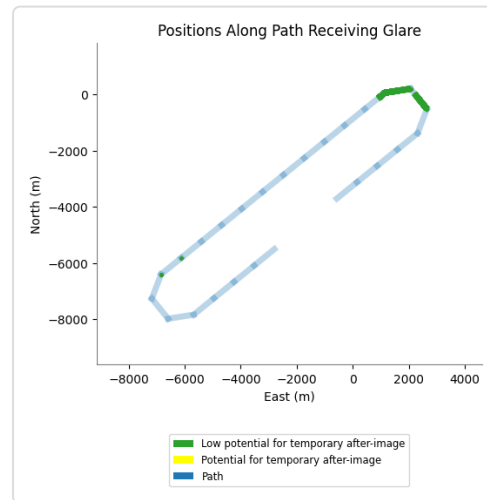
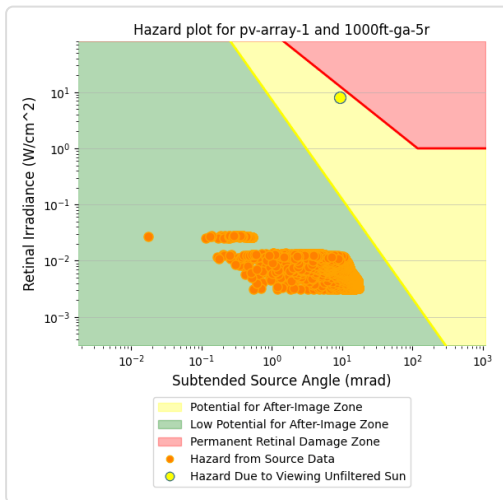
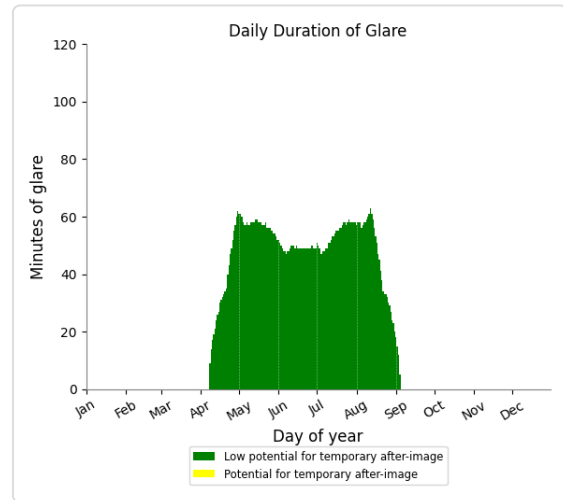
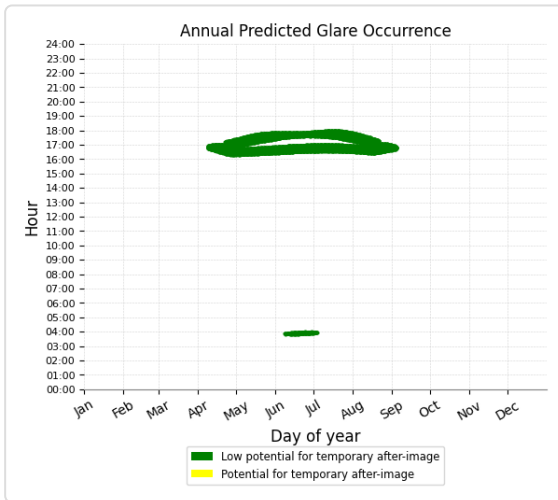
Green glare: 10,861 min.



PV array 1 and Route: 1000ft-GA_5R23L_05R-R_23L-L

Yellow glare: none

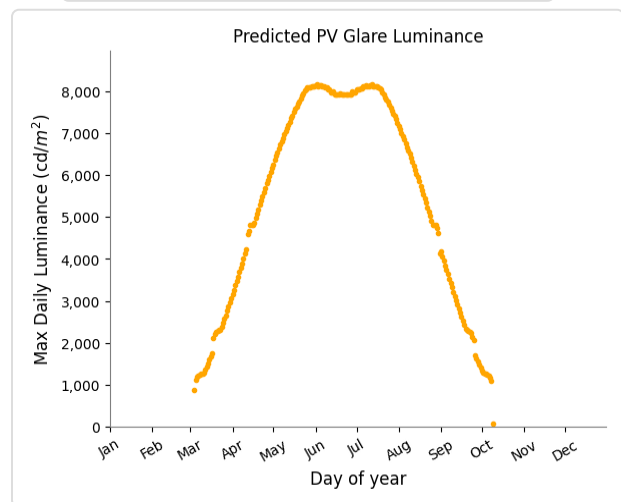
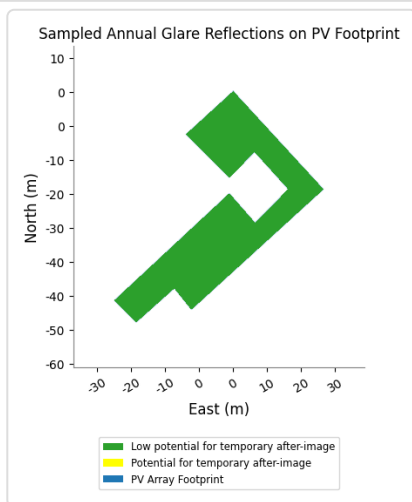
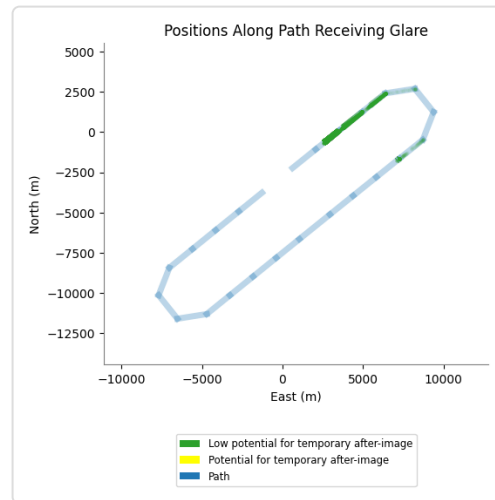
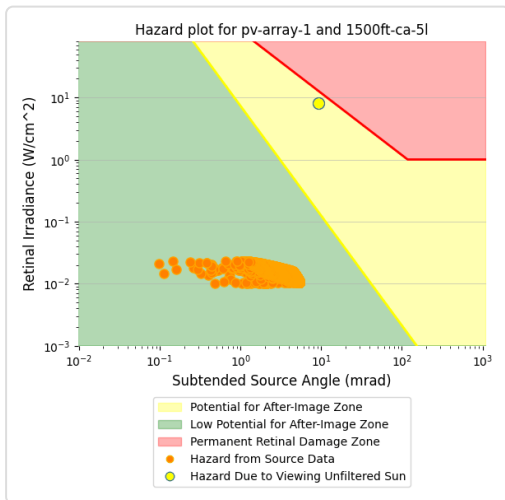
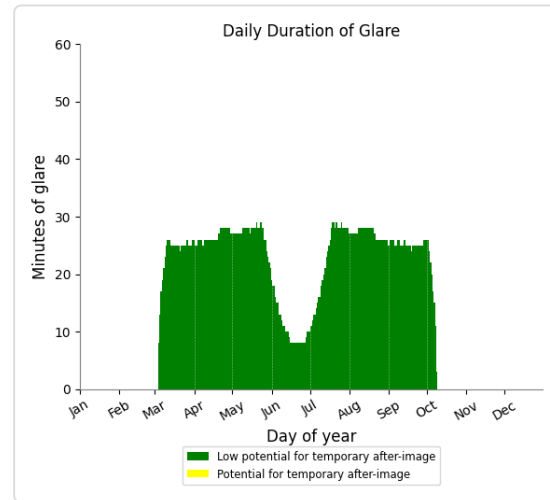
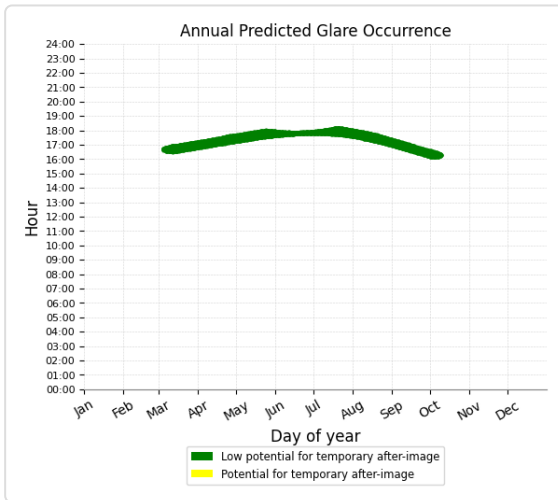
Green glare: 7,217 min.



PV array 1 and Route: 1500Ft-CA_5L23R_05L-L_23R-R

Yellow glare: none

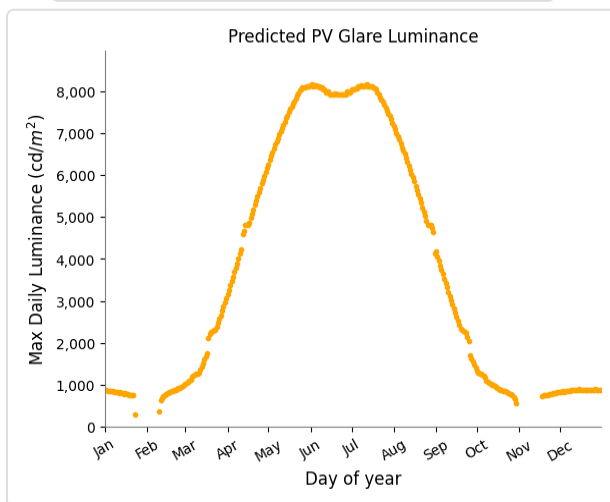
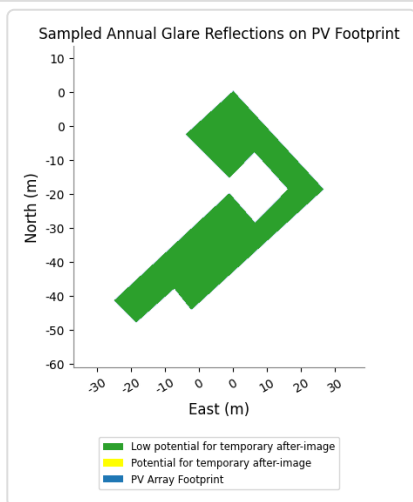
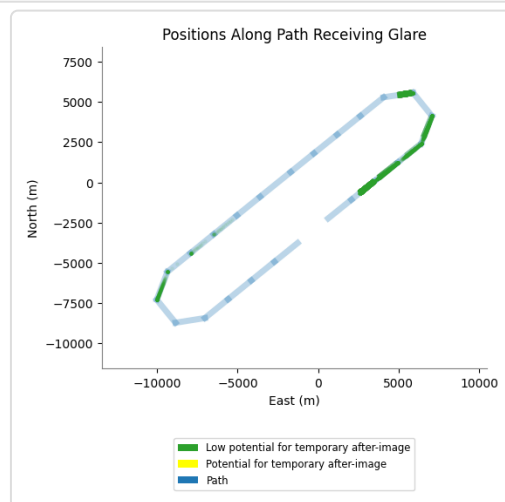
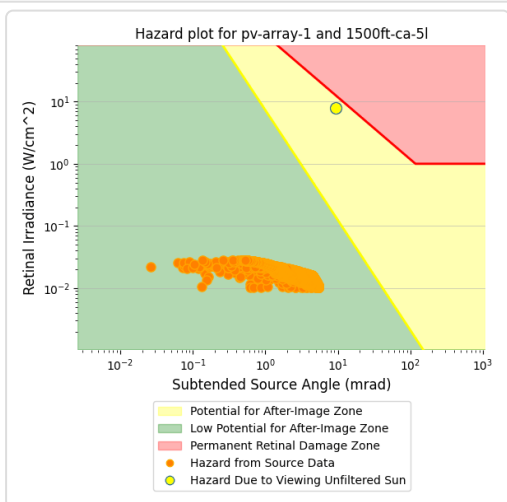
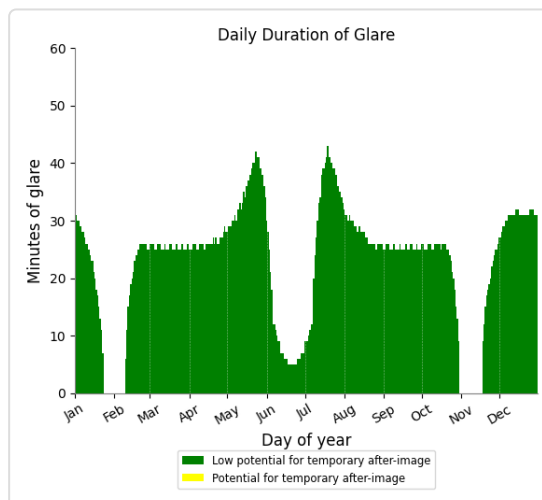
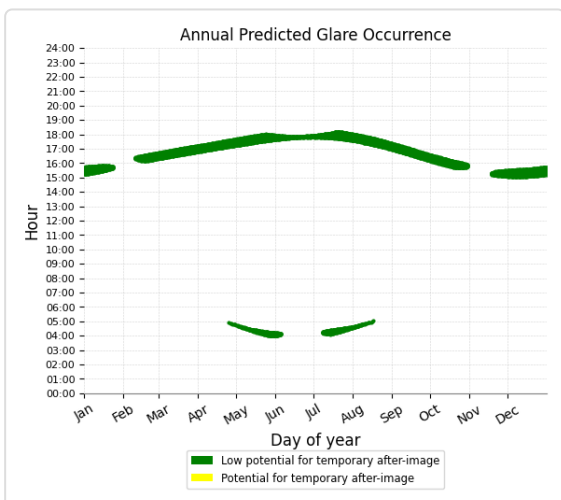
Green glare: 5,068 min.



PV array 1 and Route: 1500Ft-CA_5L23R_05L-R_23R-L

Yellow glare: none

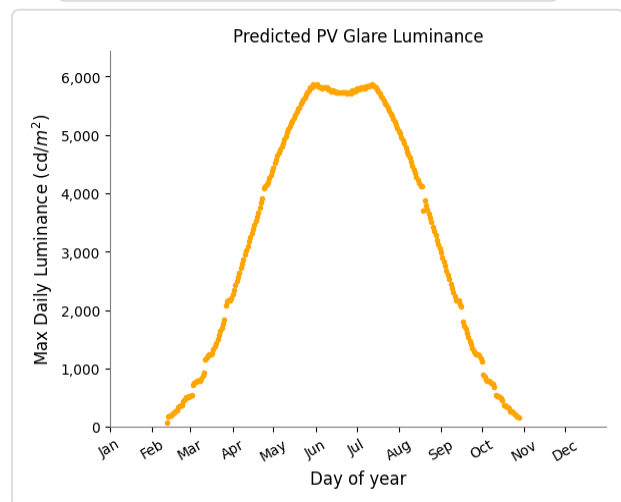
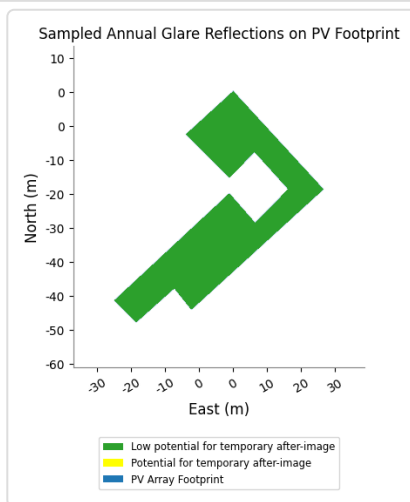
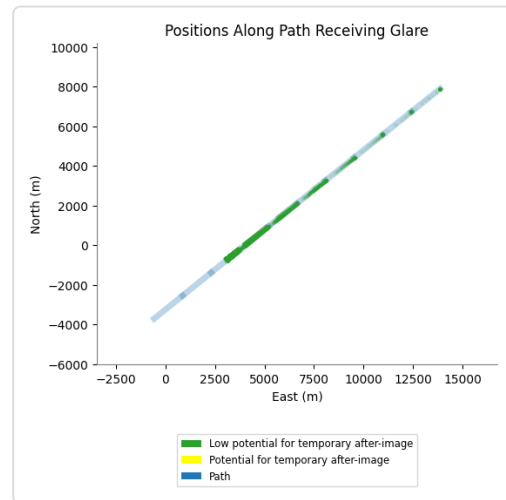
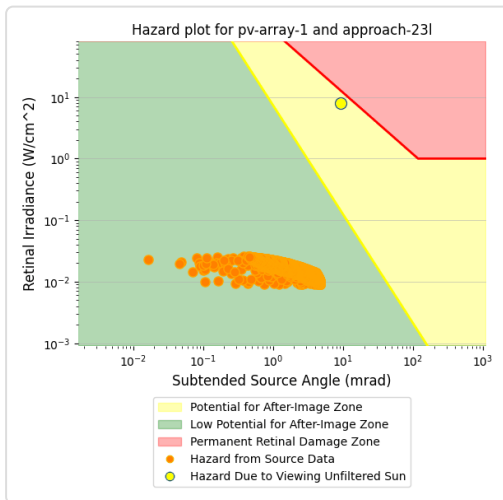
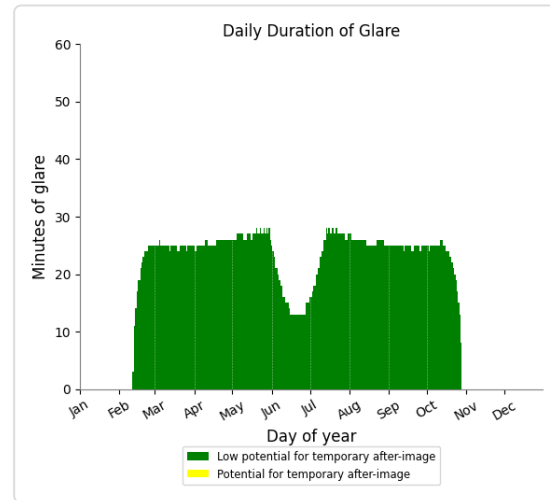
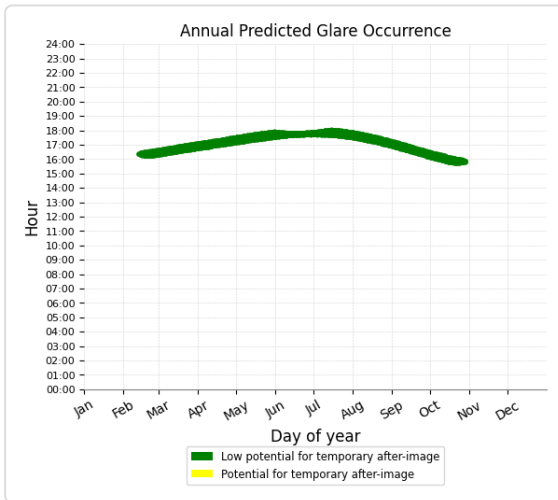
Green glare: 8,368 min.



PV array 1 and Route: Approach_23L

Yellow glare: none

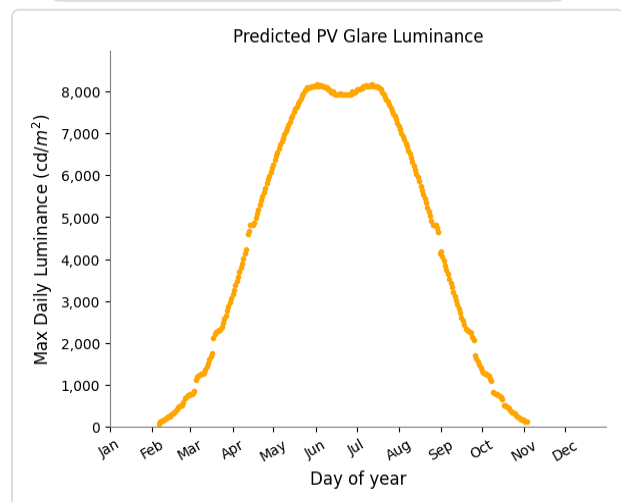
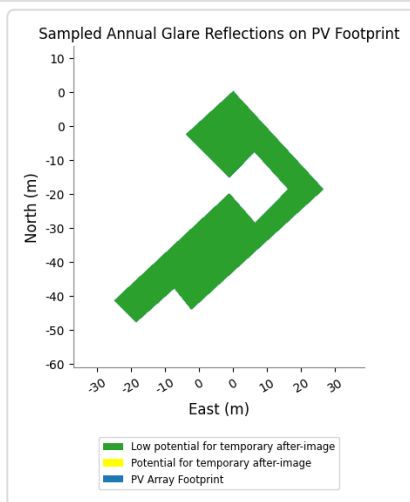
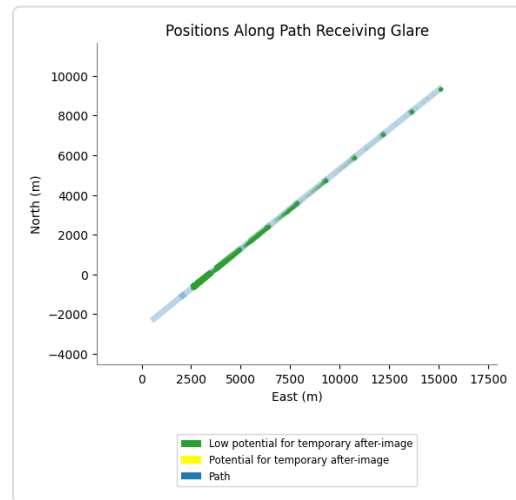
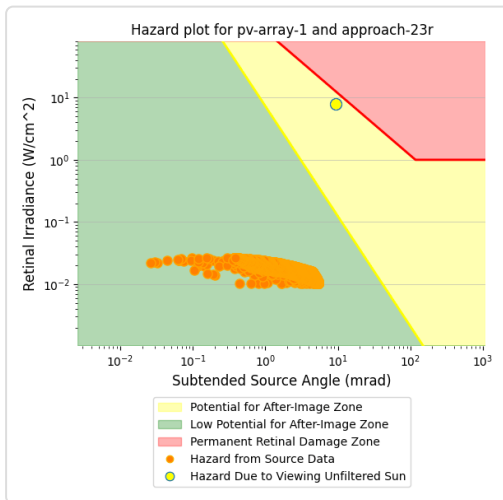
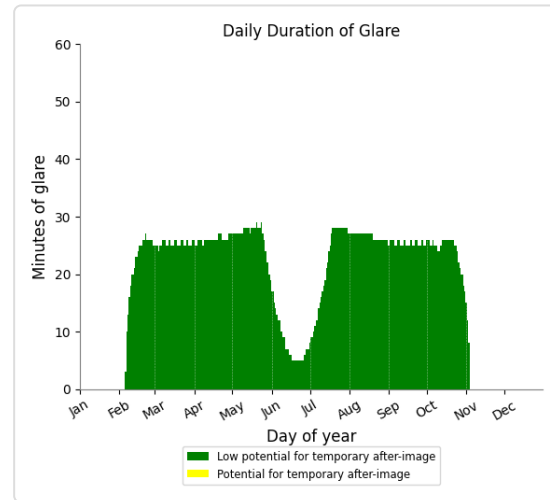
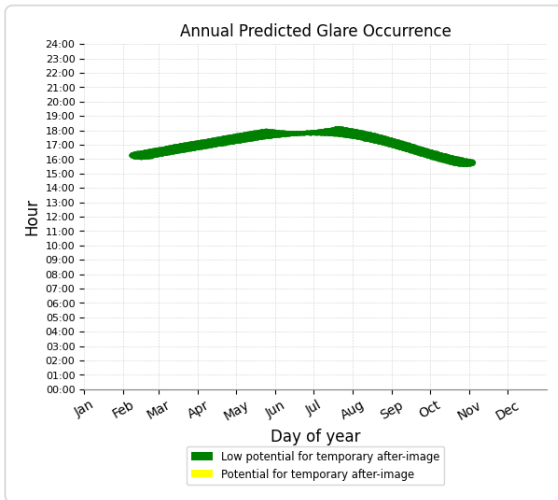
Green glare: 6,123 min.



PV array 1 and Route: Approach_23R

Yellow glare: none

Green glare: 6,171 min.



PV array 1 and Route: 1000Ft-GA_5R23L_05R-L_23L-R

No glare found

PV array 1 and Route: Approach_05L

No glare found

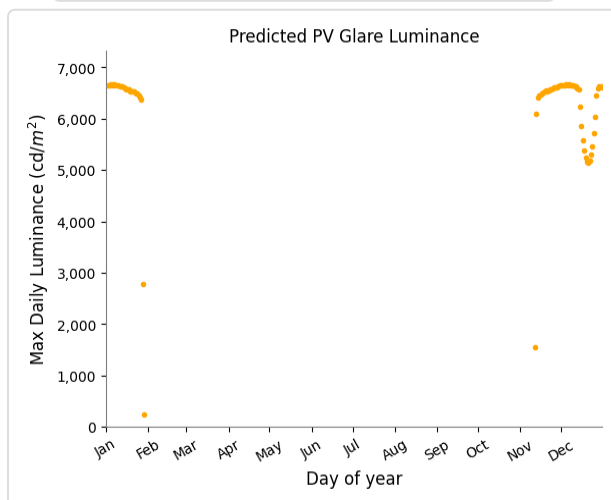
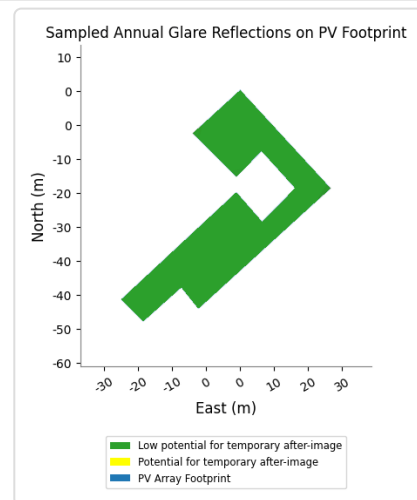
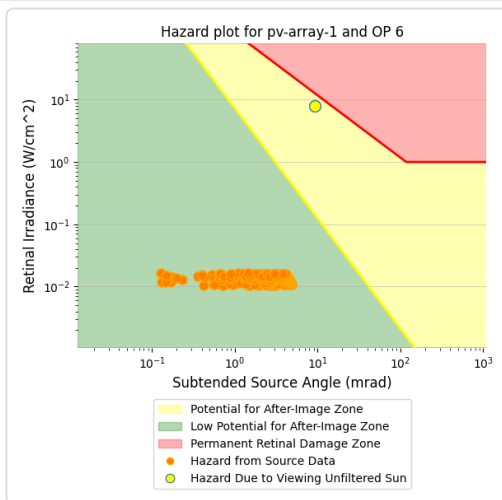
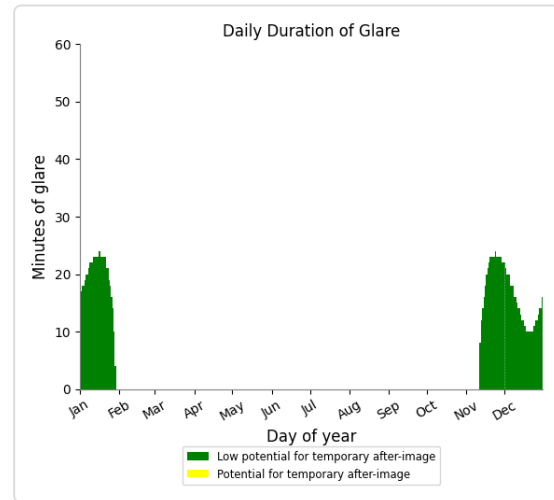
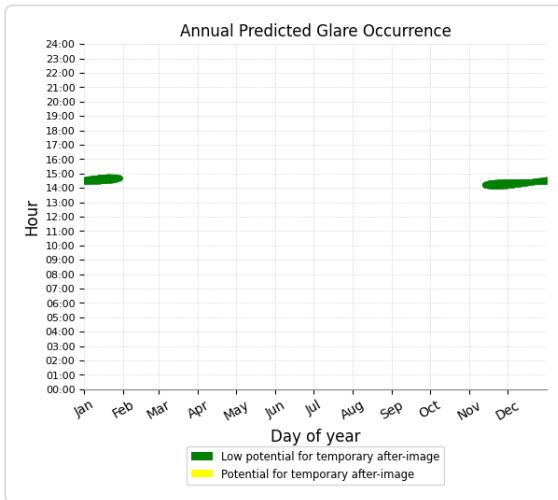
PV array 1 and Route: Approach_05R

No glare found

PV array 1 and OP 6

Yellow glare: none

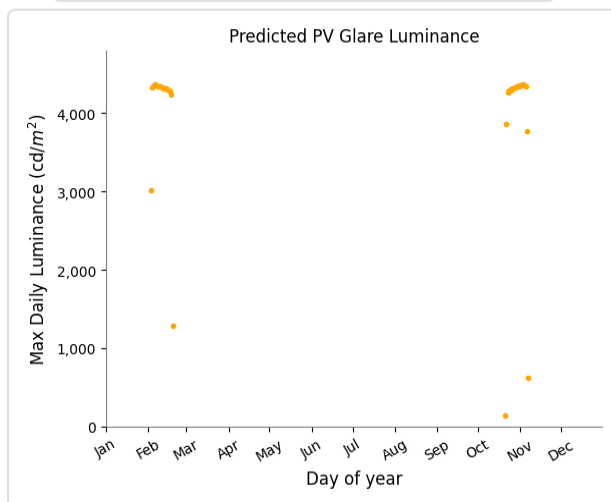
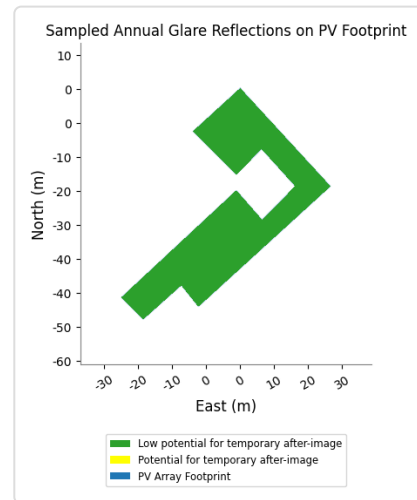
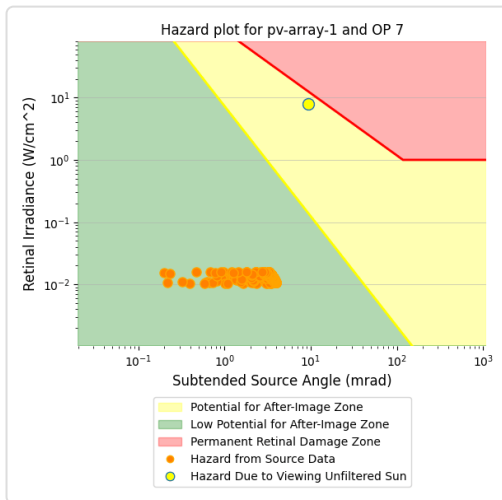
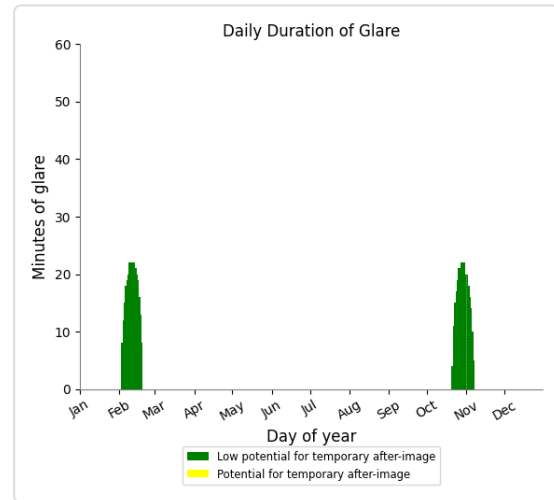
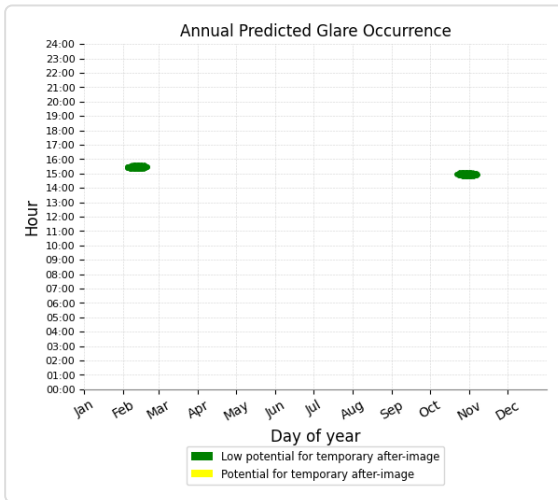
Green glare: 1,396 min.



PV array 1 and OP 7

Yellow glare: none

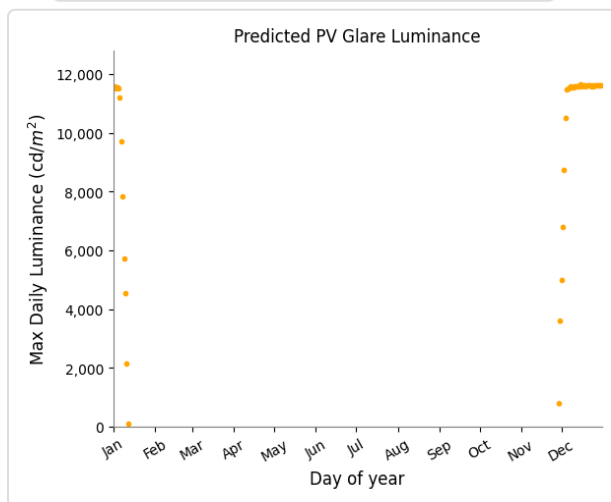
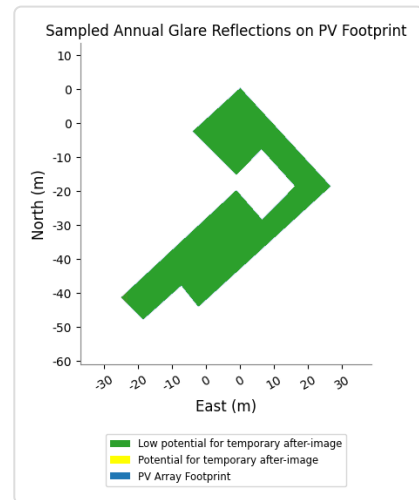
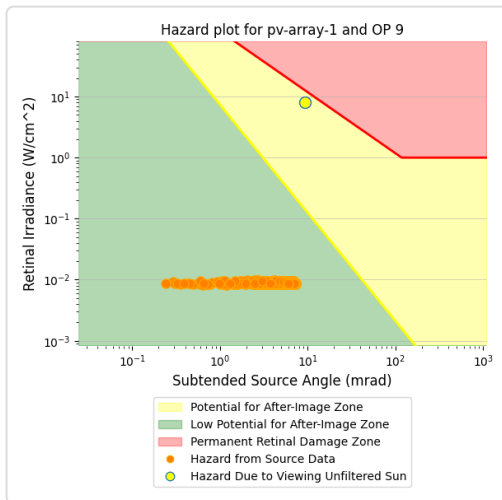
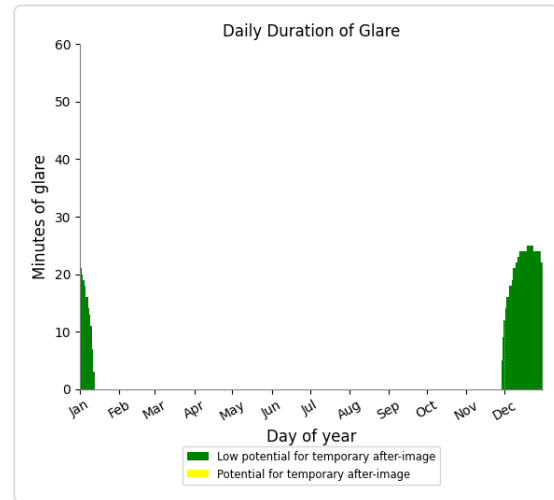
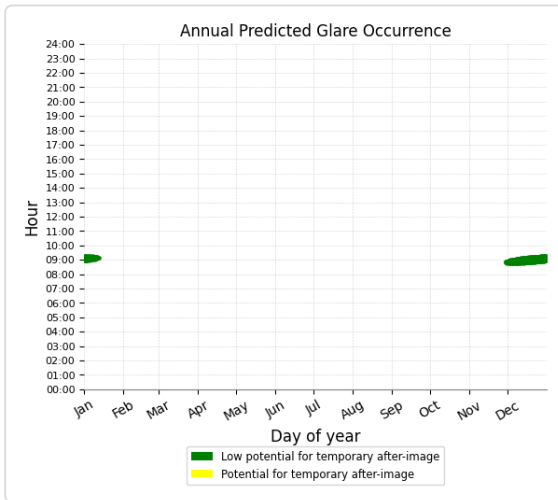
Green glare: 598 min.



PV array 1 and OP 9

Yellow glare: none

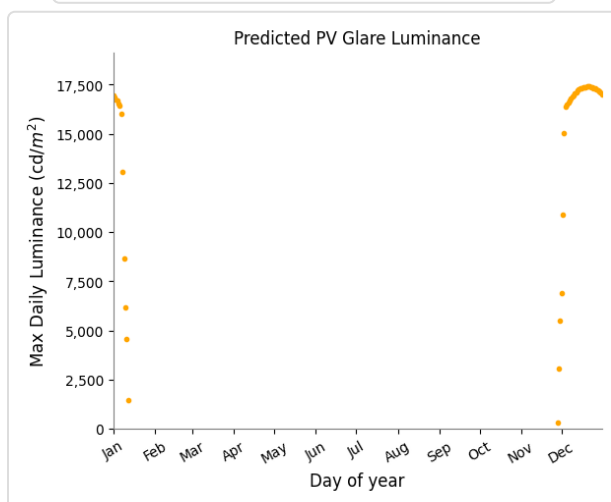
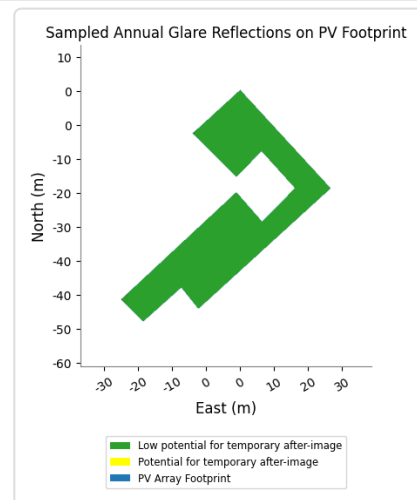
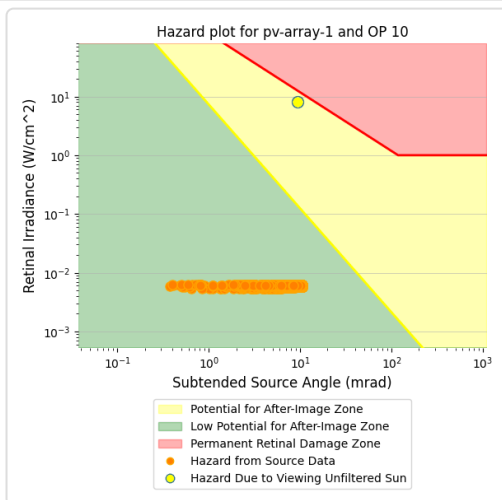
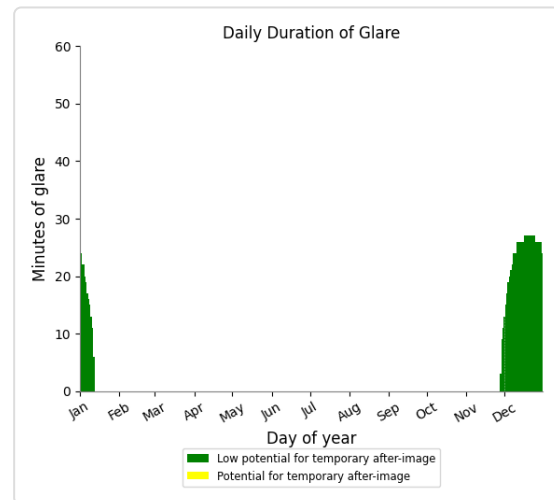
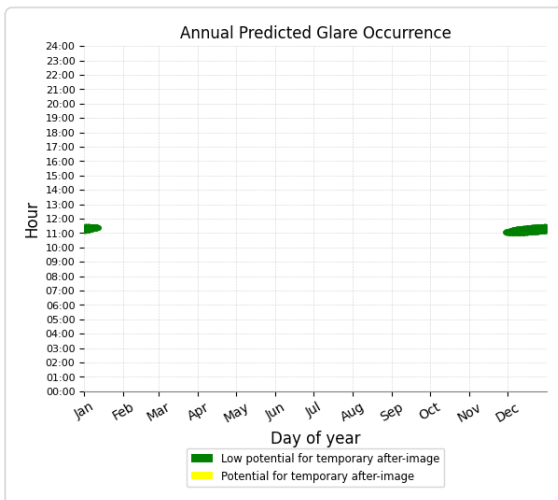
Green glare: 873 min.



PV array 1 and OP 10

Yellow glare: none

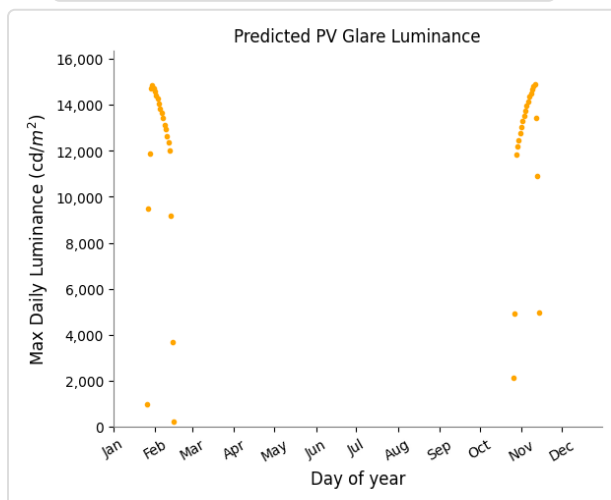
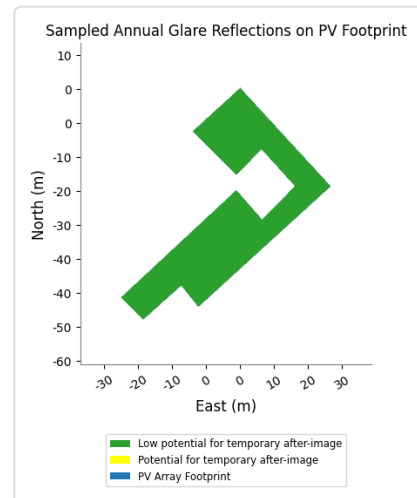
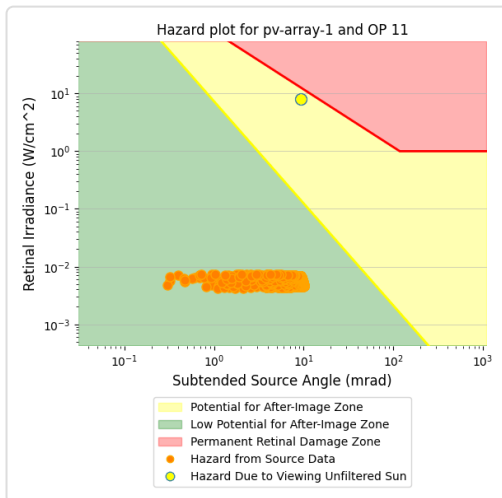
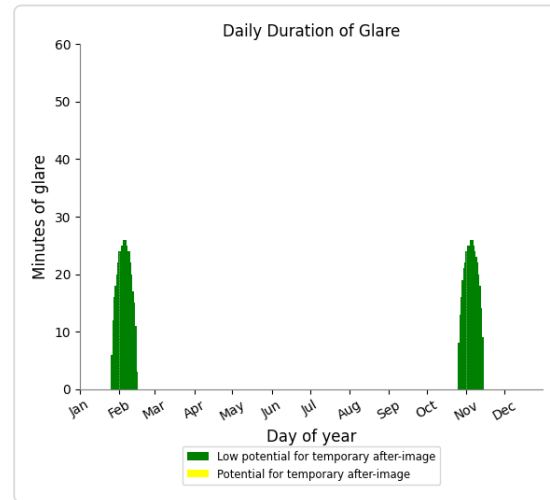
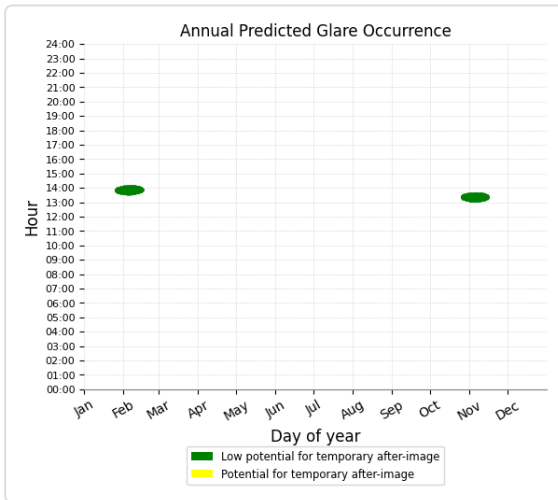
Green glare: 984 min.



PV array 1 and OP 11

Yellow glare: none

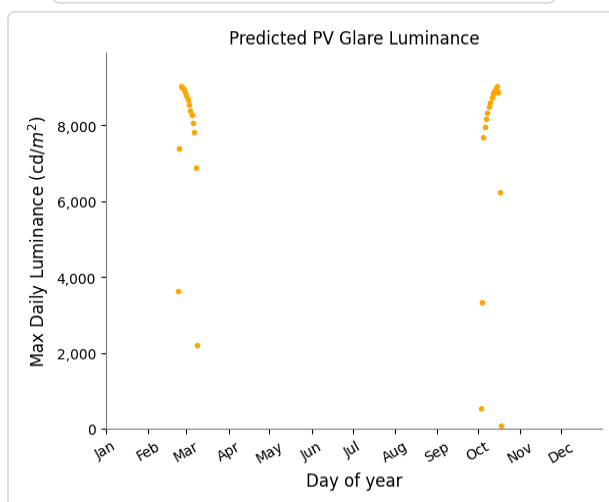
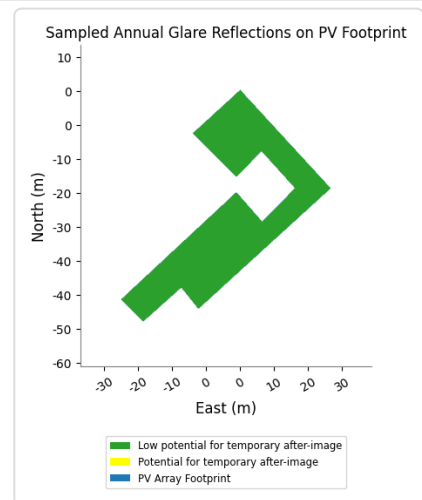
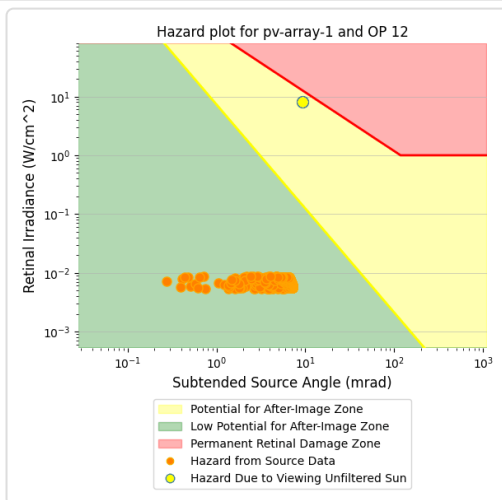
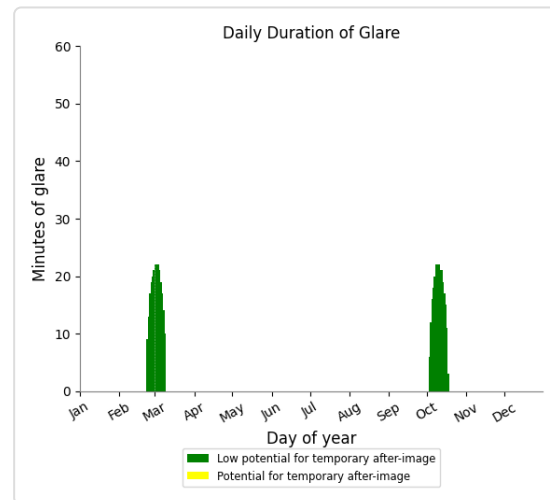
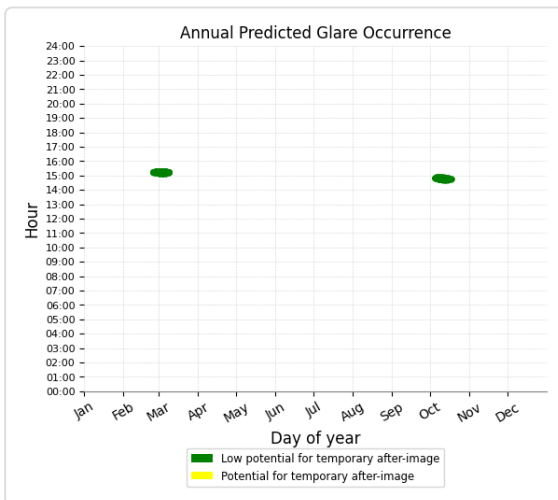
Green glare: 812 min.



PV array 1 and OP 12

Yellow glare: none

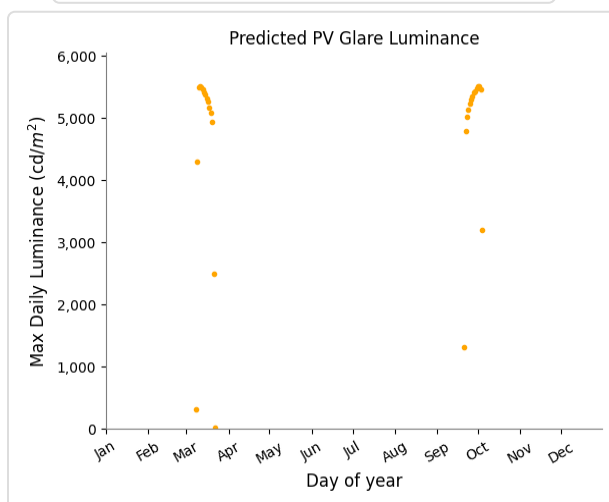
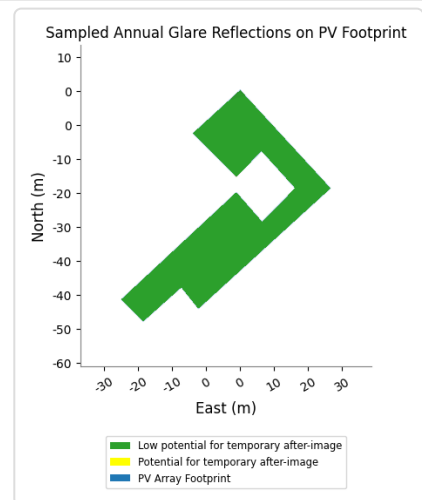
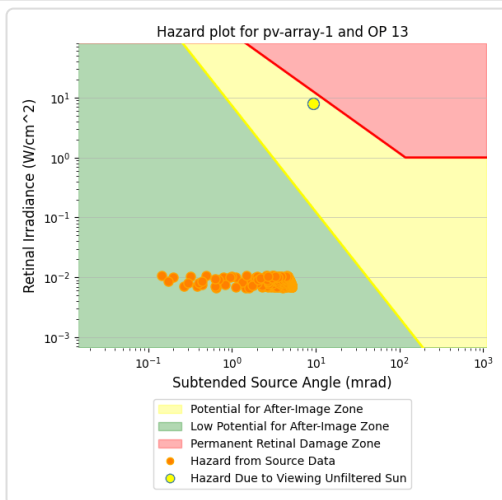
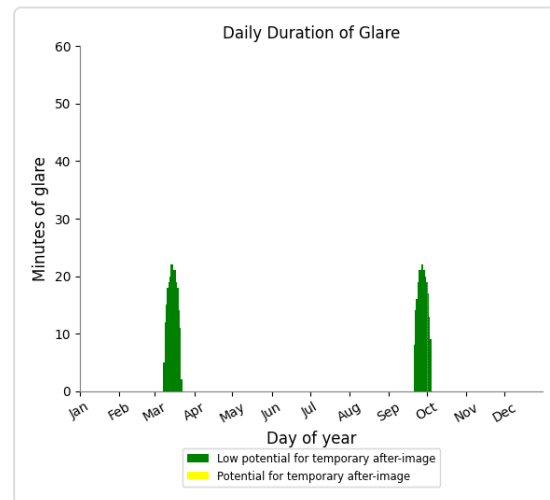
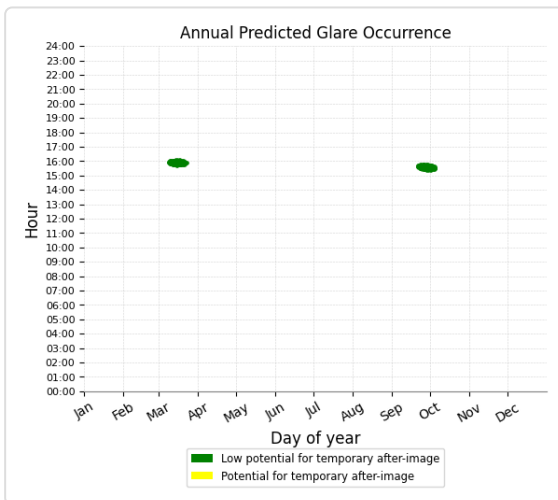
Green glare: 535 min.



PV array 1 and OP 13

Yellow glare: none

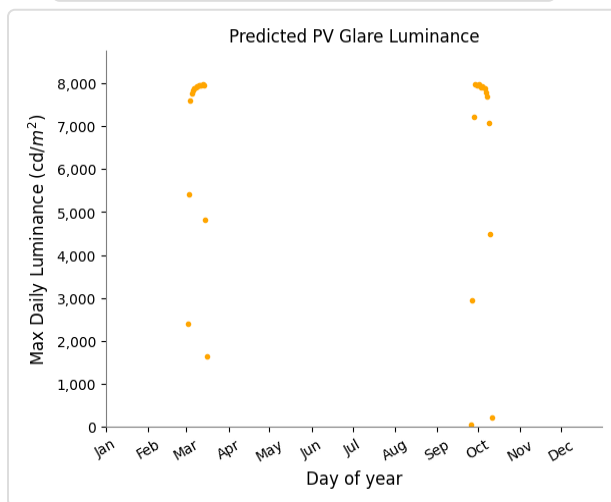
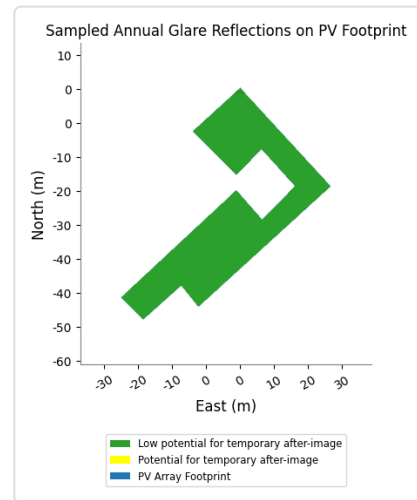
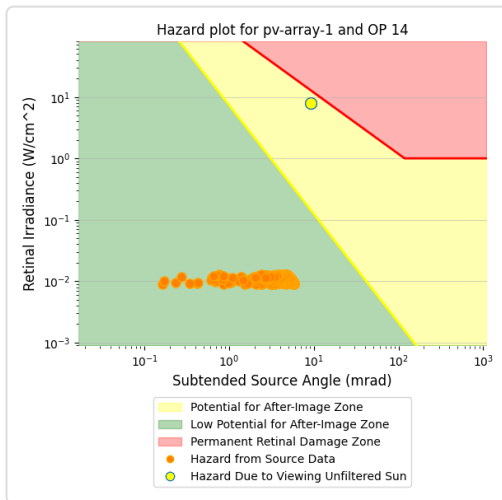
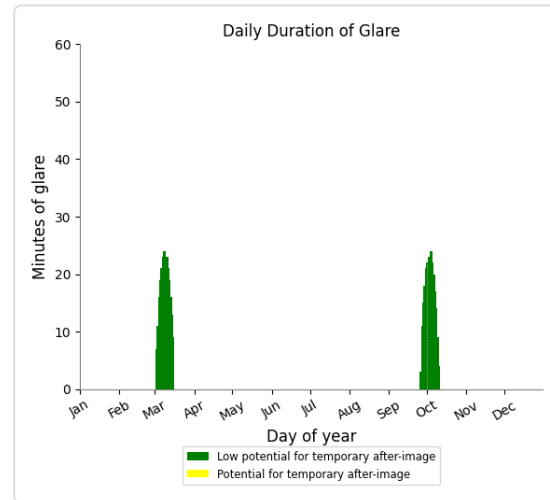
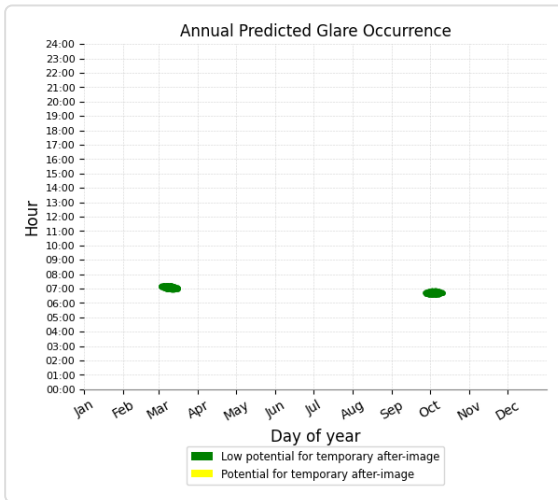
Green glare: 481 min.



PV array 1 and OP 14

Yellow glare: none

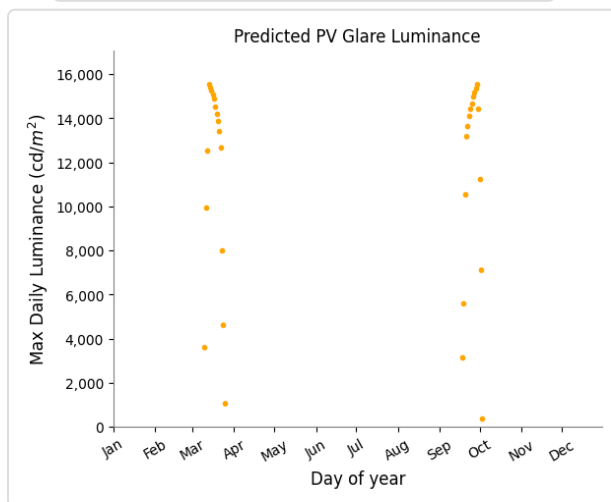
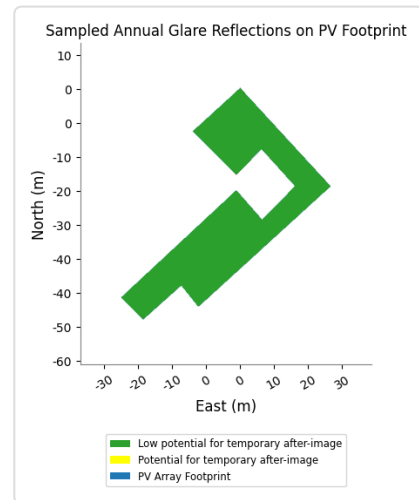
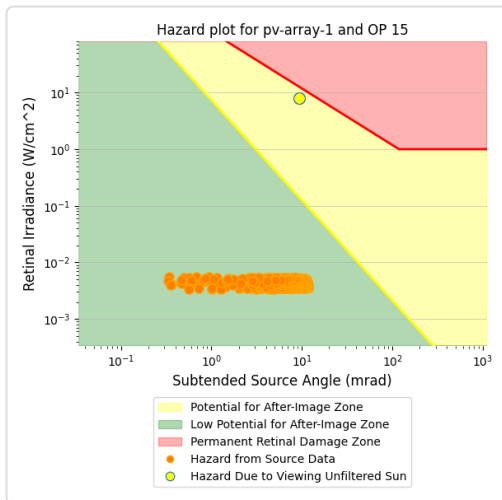
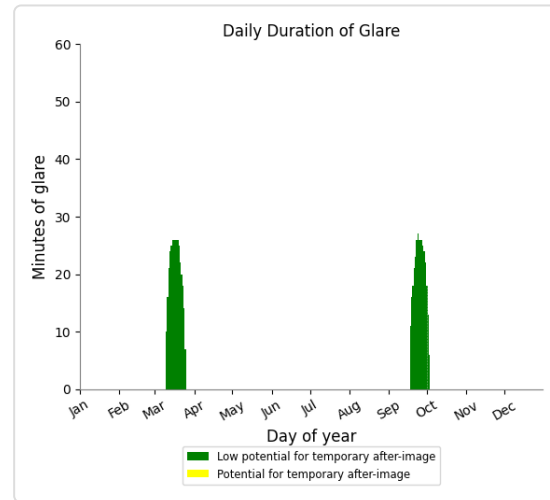
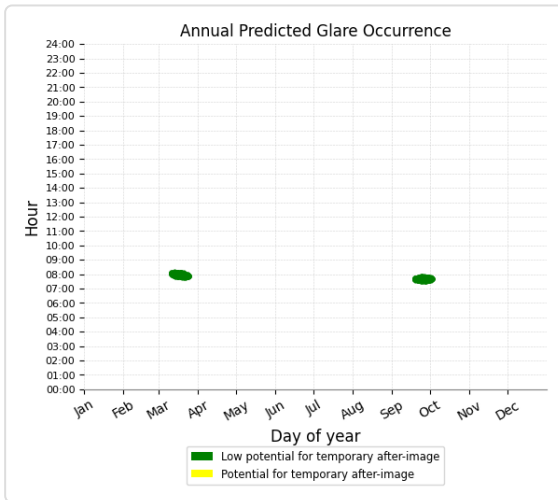
Green glare: 539 min.



PV array 1 and OP 15

Yellow glare: none

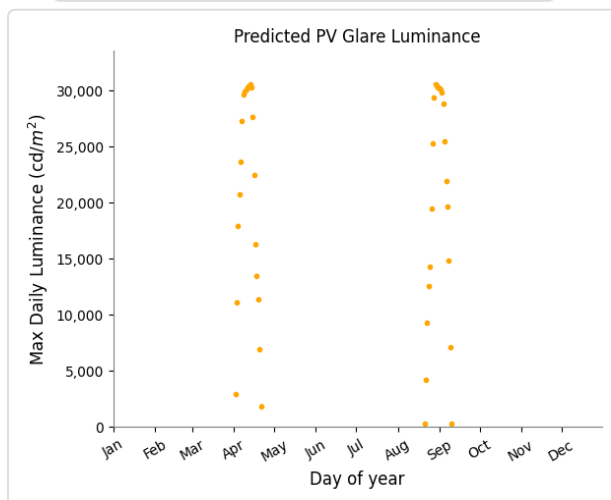
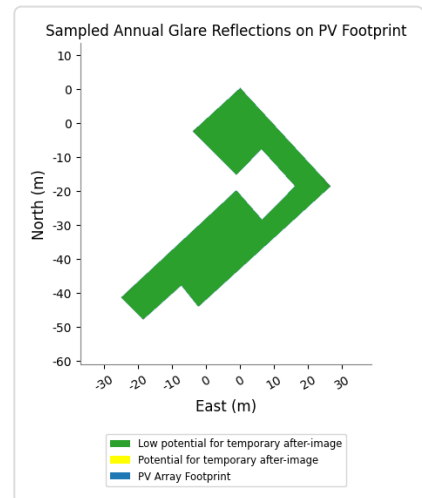
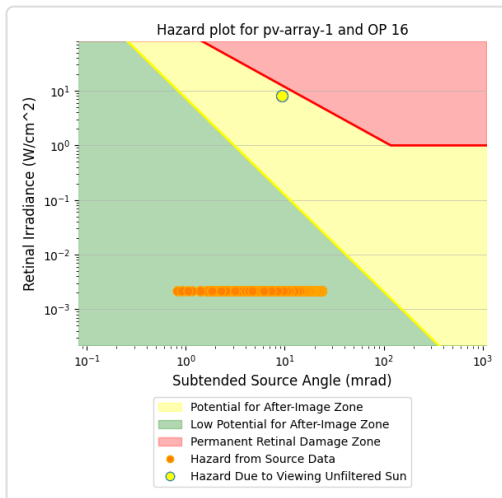
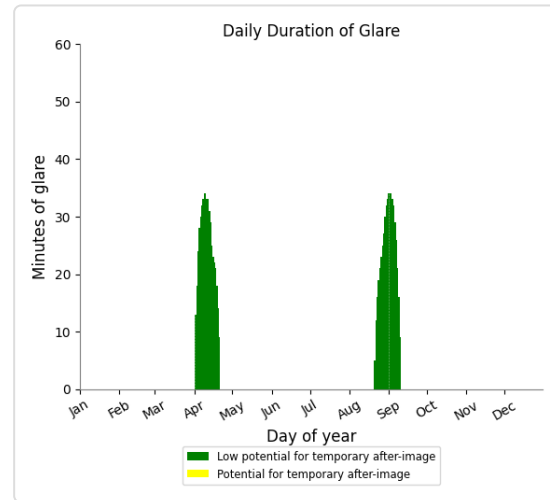
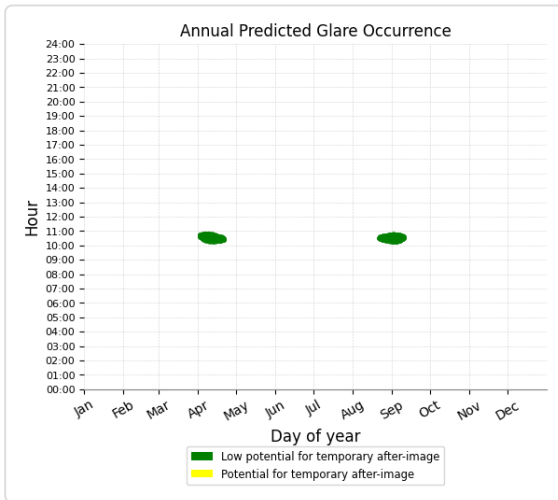
Green glare: 660 min.



PV array 1 and OP 16

Yellow glare: none

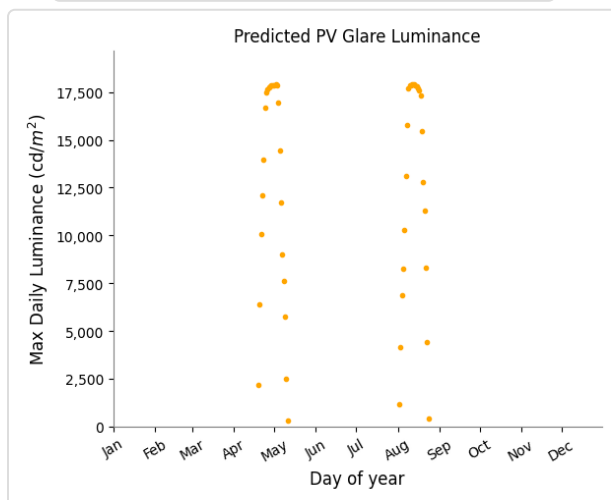
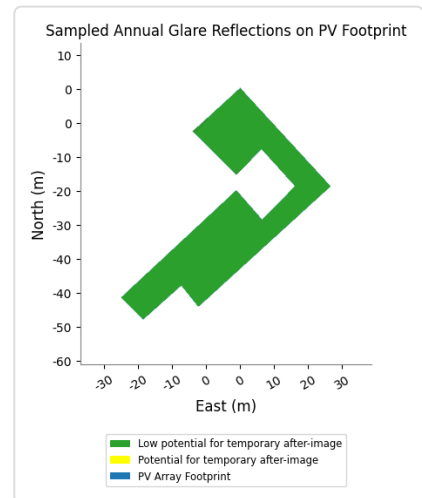
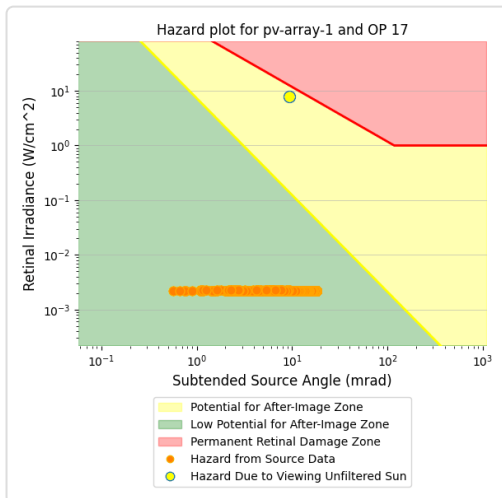
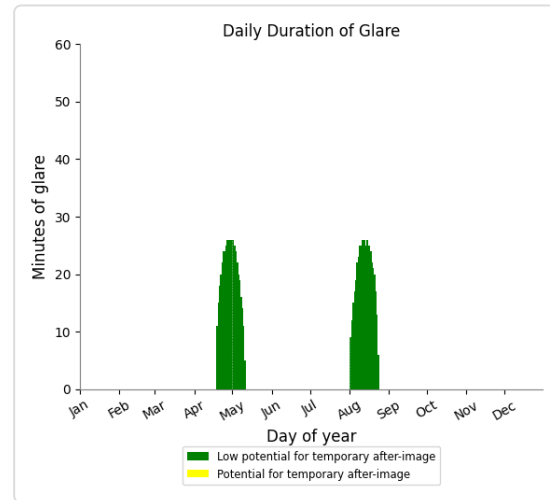
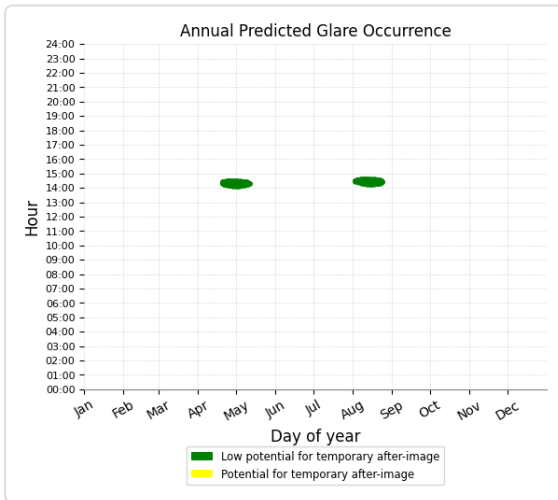
Green glare: 1,015 min.



PV array 1 and OP 17

Yellow glare: none

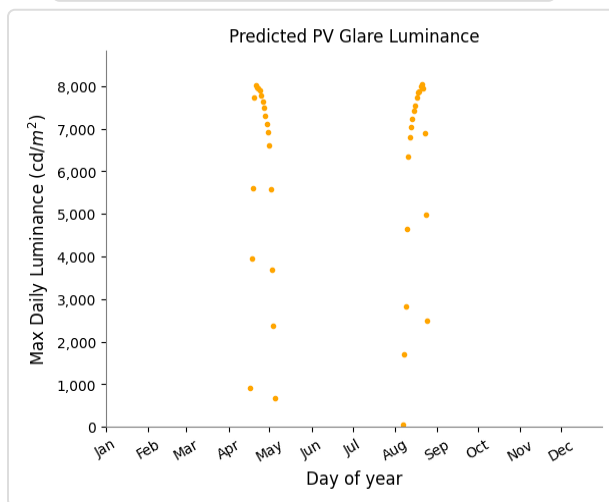
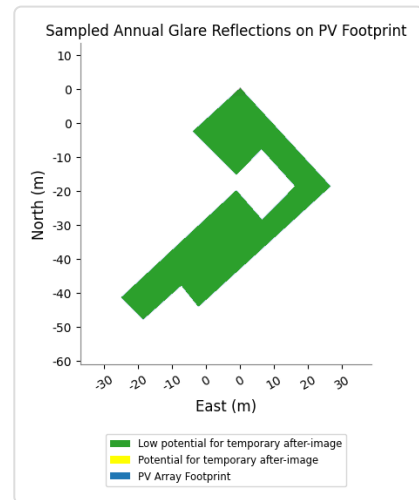
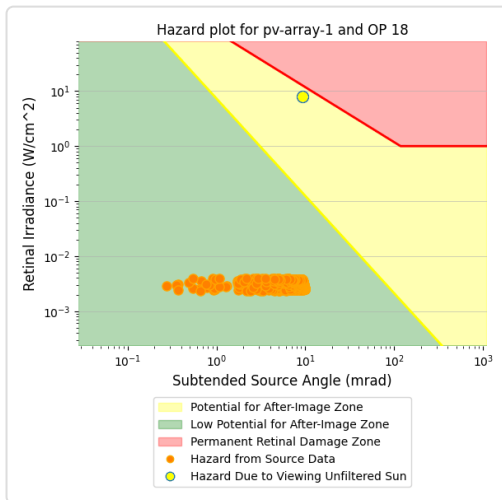
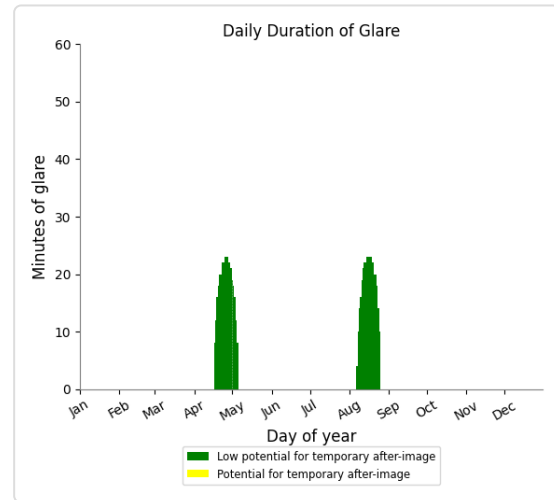
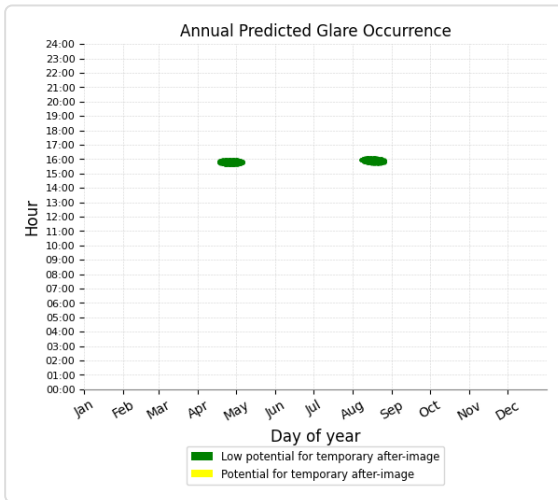
Green glare: 940 min.



PV array 1 and OP 18

Yellow glare: none

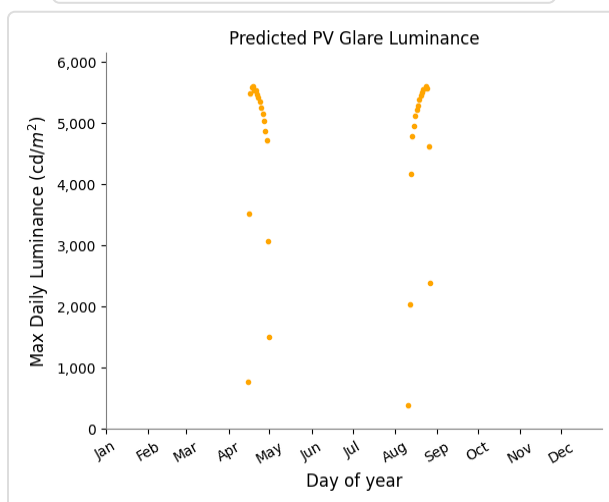
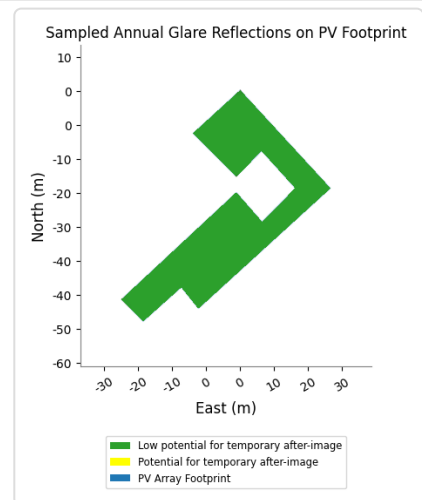
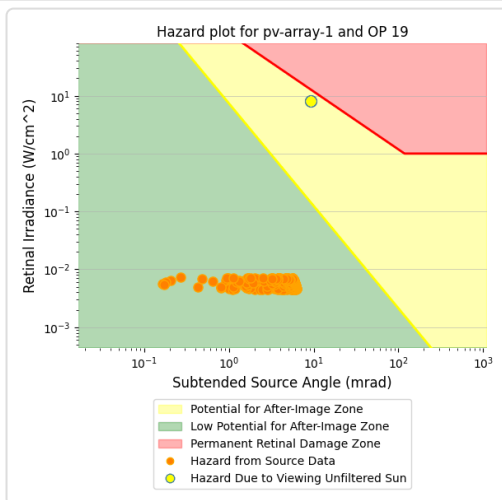
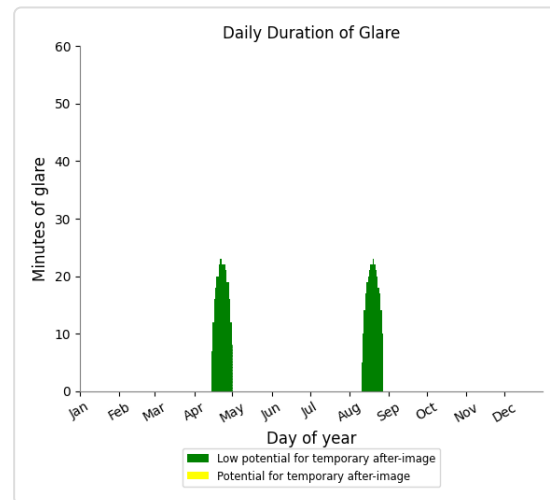
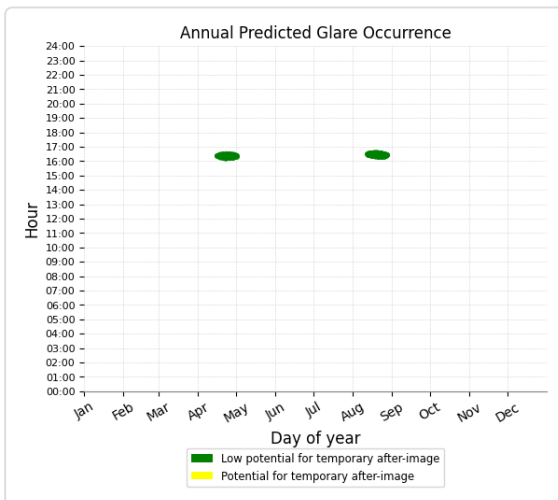
Green glare: 691 min.



PV array 1 and OP 19

Yellow glare: none

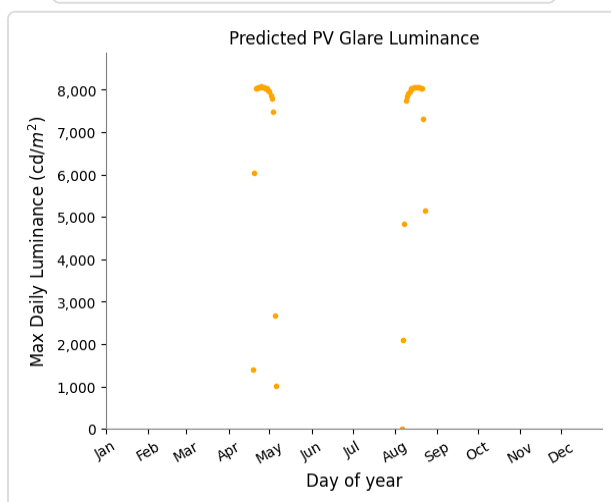
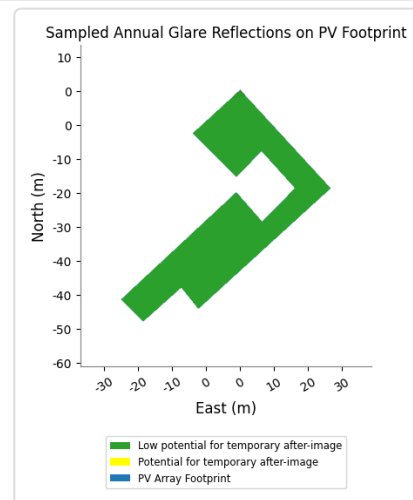
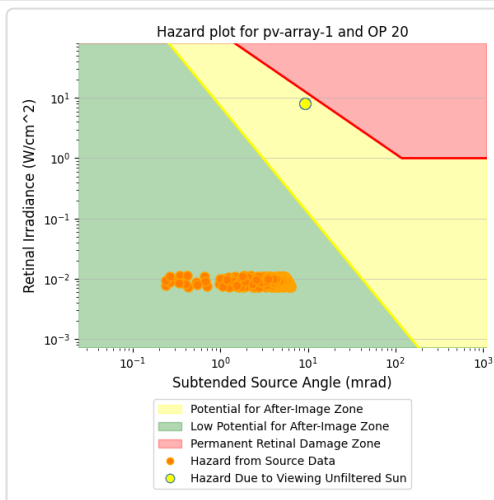
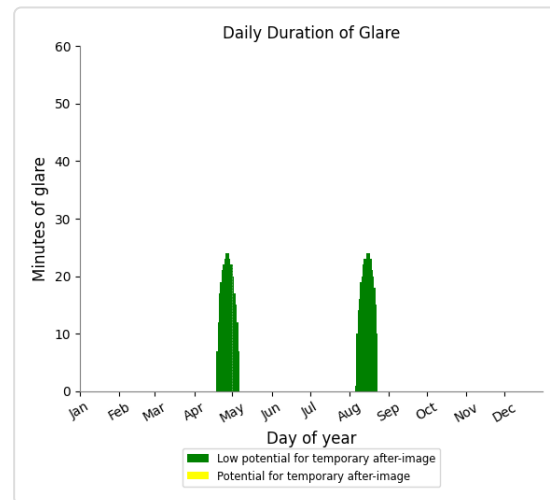
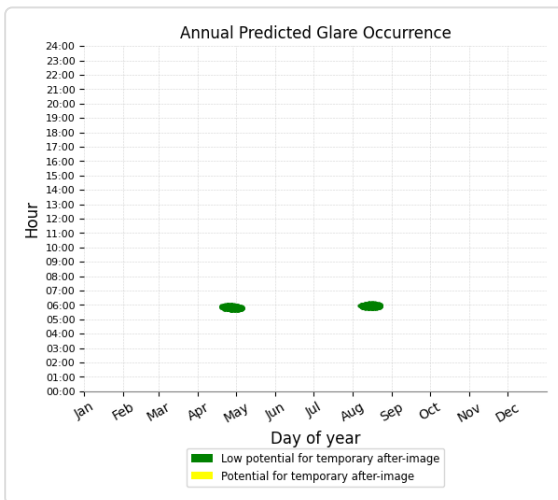
Green glare: 594 min.



PV array 1 and OP 20

Yellow glare: none

Green glare: 658 min.



PV array 1 and 1-ATCT

No glare found

PV array 1 and OP 2

No glare found

PV array 1 and OP 3

No glare found

PV array 1 and OP 4

No glare found

PV array 1 and OP 5

No glare found

PV array 1 and OP 8

No glare found

PV array 1 and OP 21

No glare found

PV array 1 and OP 22

No glare found

PV array 1 and OP 23

No glare found

PV array 1 and OP 24

No glare found

PV array 1 and OP 25

No glare found

PV array 1 and OP 26

No glare found

PV array 1 and OP 27

No glare found

PV array 1 and OP 28

No glare found

PV array 1 and OP 29

No glare found

PV array 1 and OP 30

No glare found

PV array 1 and OP 31

No glare found

PV array 1 and OP 32

No glare found

PV array 1 and OP 33

No glare found

PV array 1 and OP 34

No glare found

PV array 1 and OP 35

No glare found

PV array 1 and OP 36

No glare found

PV array 1 and OP 37

No glare found

PV array 1 and OP 38

No glare found

PV array 1 and OP 39

No glare found

PV array 1 and OP 40

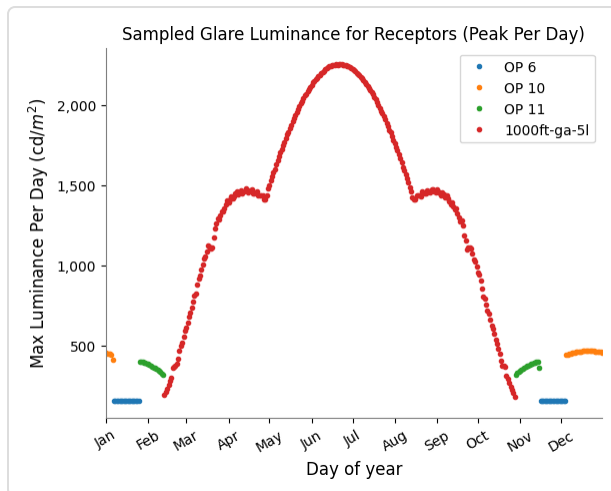
No glare found

PV: PV array 2 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
1000Ft-GA_5L23R_05L-L_23R-R	3,100	51.7	0	0.0	202
1000Ft-GA_5L23R_05L-R_23R-L	9,149	152.5	0	0.0	2,254
1000Ft-GA_5R23L_05R-R_23L-L	6,002	100.0	0	0.0	976
1500Ft-CA_5L23R_05L-L_23R-R	5,022	83.7	0	0.0	202
1500Ft-CA_5L23R_05L-R_23R-L	8,211	136.8	0	0.0	202
Approach_23L	6,093	101.5	0	0.0	143
Approach_23R	6,114	101.9	0	0.0	202
1000Ft-GA_5R23L_05R-L_23L-R	0	0.0	0	0.0	0
Approach_05L	0	0.0	0	0.0	0
Approach_05R	0	0.0	0	0.0	0
OP 6	1,250	20.8	0	0.0	159
OP 7	532	8.9	0	0.0	103
OP 9	392	6.5	0	0.0	298
OP 10	488	8.1	0	0.0	468
OP 11	612	10.2	0	0.0	401
OP 12	438	7.3	0	0.0	228
OP 13	406	6.8	0	0.0	133
OP 14	406	6.8	0	0.0	201
OP 15	415	6.9	0	0.0	447
OP 16	454	7.6	0	0.0	1,126
OP 17	511	8.5	0	0.0	562
OP 18	491	8.2	0	0.0	219
OP 19	474	7.9	0	0.0	139
OP 20	501	8.3	0	0.0	205
1-ATCT	0	0.0	0	0.0	0
OP 2	0	0.0	0	0.0	0
OP 3	0	0.0	0	0.0	0
OP 4	0	0.0	0	0.0	0
OP 5	0	0.0	0	0.0	0
OP 8	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 24	0	0.0	0	0.0	0
OP 25	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	0	0.0	0

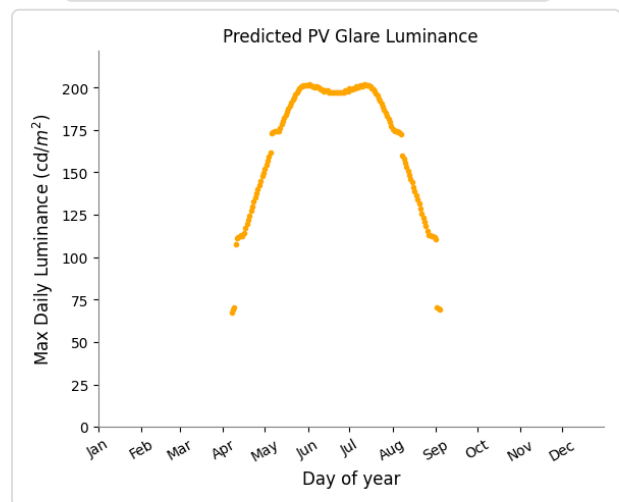
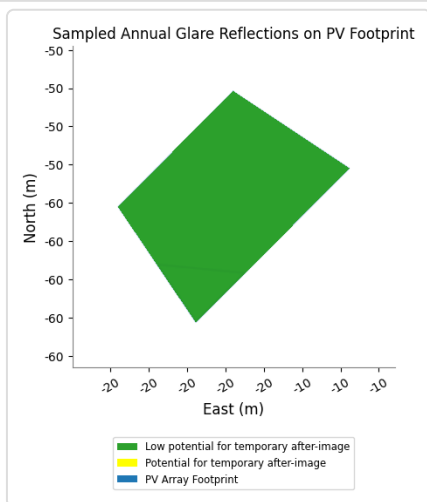
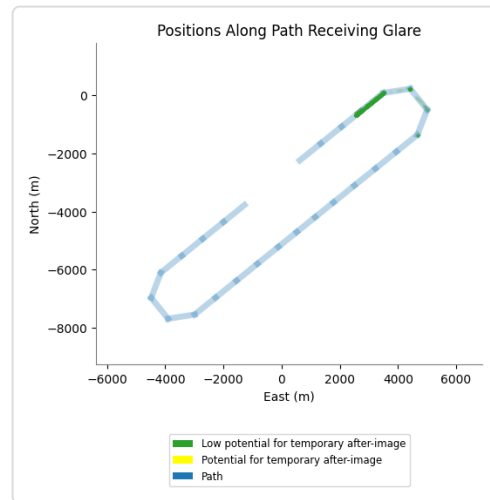
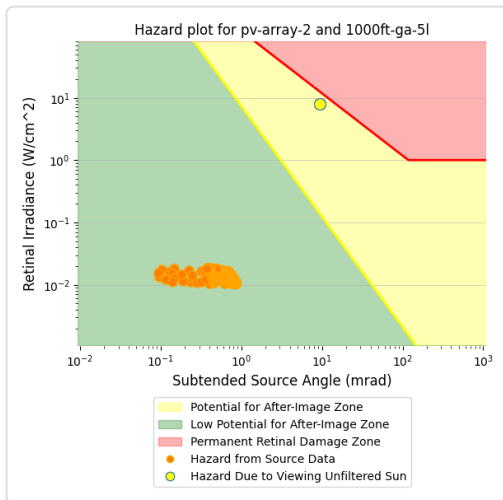
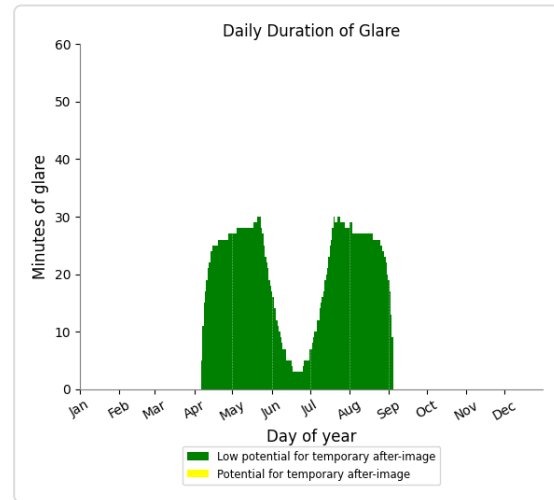
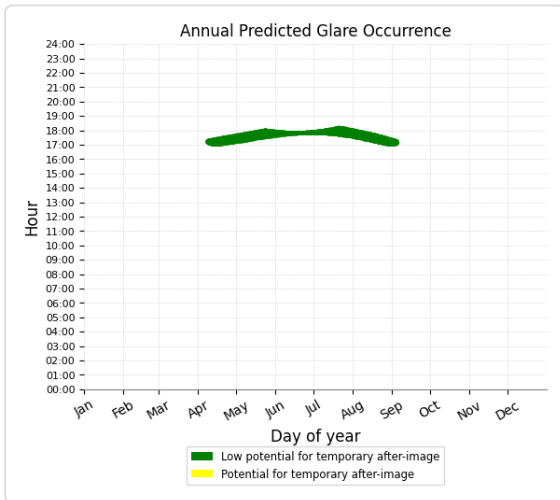
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 29	0	0.0	0	0.0	0
OP 30	0	0.0	0	0.0	0
OP 31	0	0.0	0	0.0	0
OP 32	0	0.0	0	0.0	0
OP 33	0	0.0	0	0.0	0
OP 34	0	0.0	0	0.0	0
OP 35	0	0.0	0	0.0	0
OP 36	0	0.0	0	0.0	0
OP 37	0	0.0	0	0.0	0
OP 38	0	0.0	0	0.0	0
OP 39	0	0.0	0	0.0	0
OP 40	0	0.0	0	0.0	0



PV array 2 and Route: 1000Ft-GA_5L23R_05L-L_23R-R

Yellow glare: none

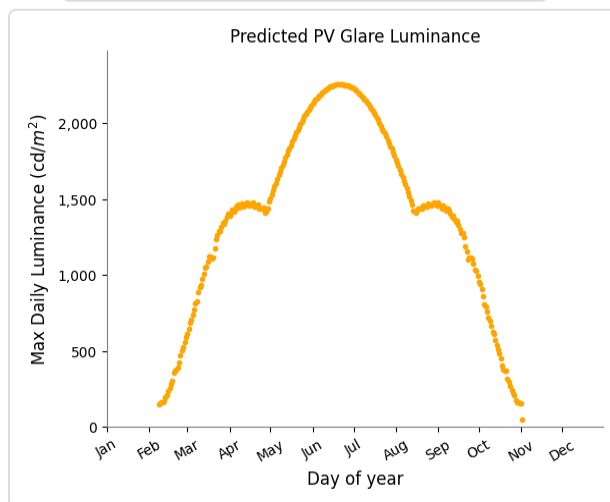
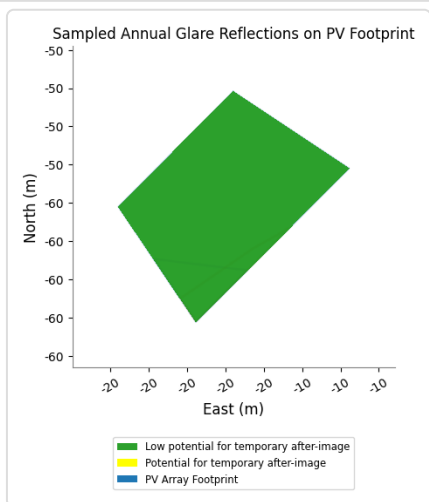
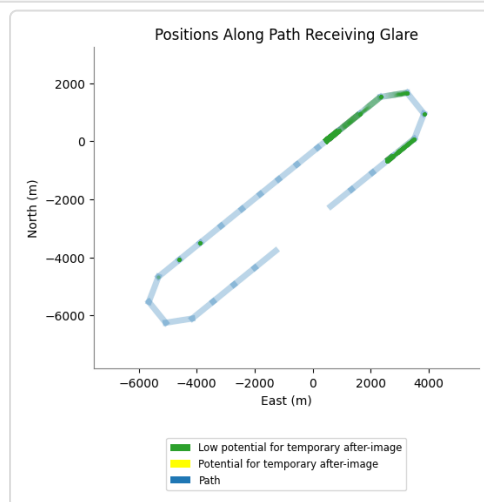
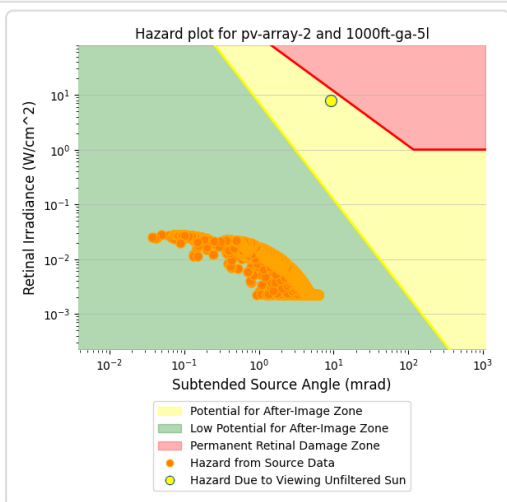
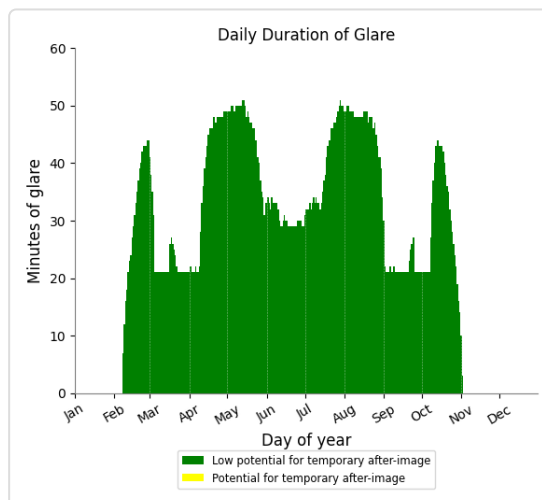
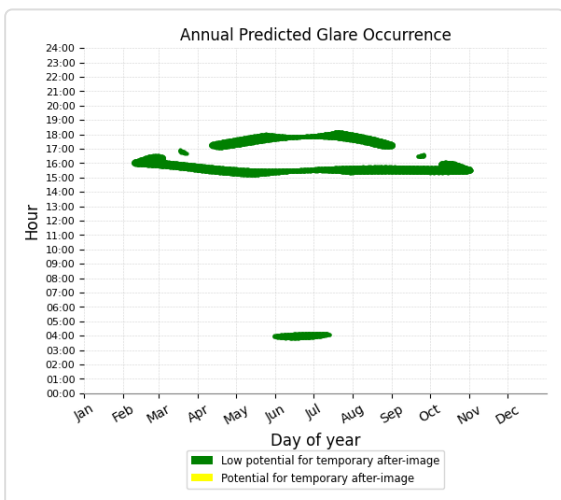
Green glare: 3,100 min.



PV array 2 and Route: 1000ft-GA_5L23R_05L-R_23R-L

Yellow glare: none

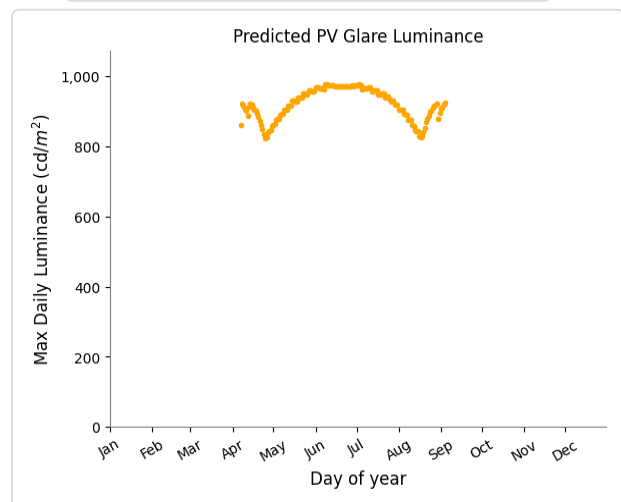
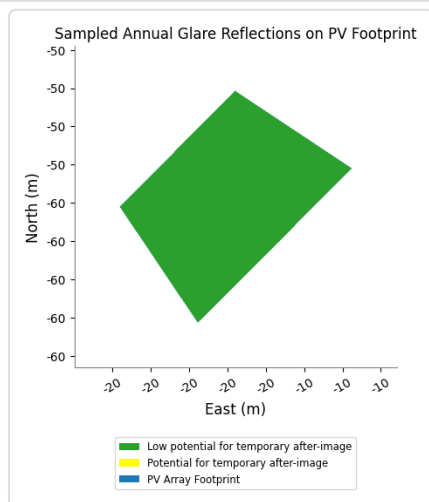
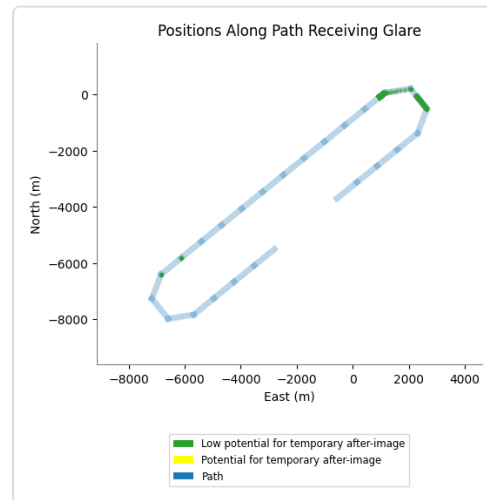
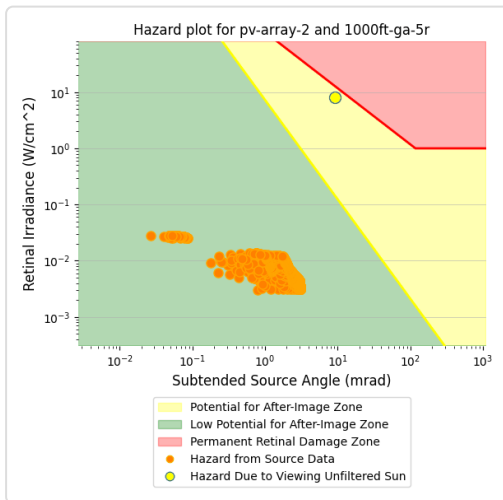
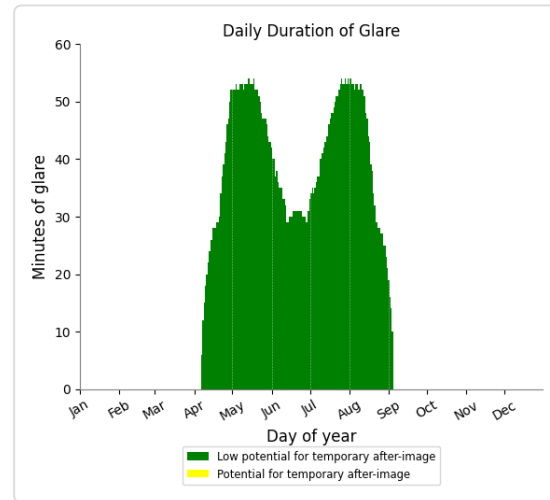
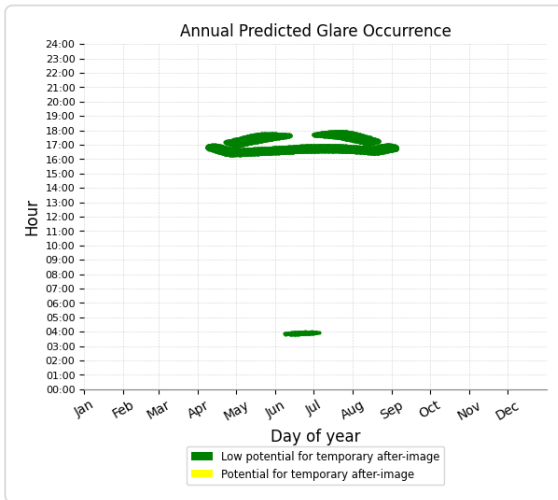
Green glare: 9,149 min.



PV array 2 and Route: 1000Ft-GA_5R23L_05R-R_23L-L

Yellow glare: none

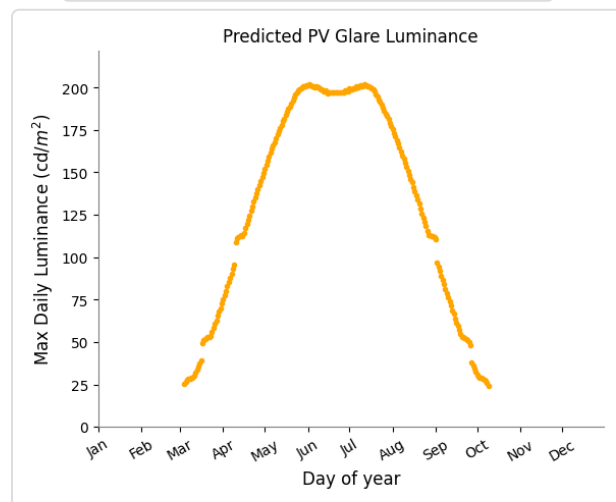
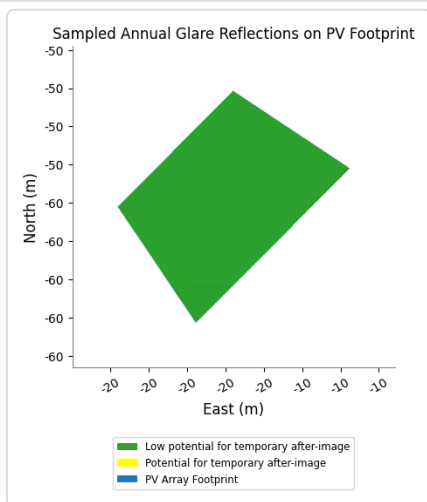
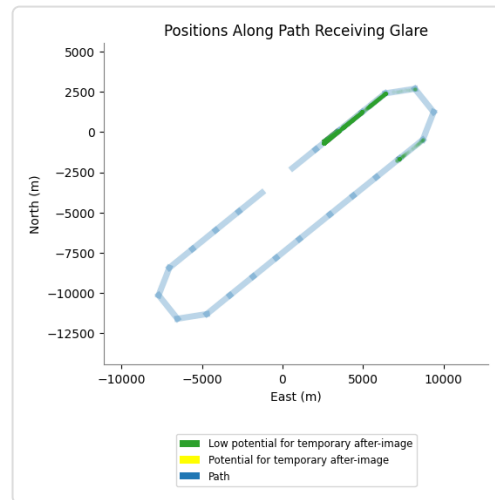
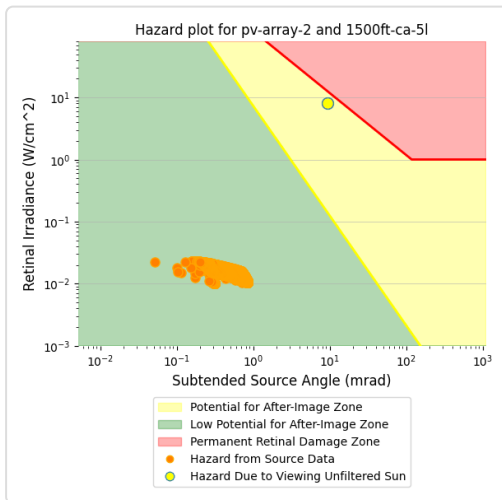
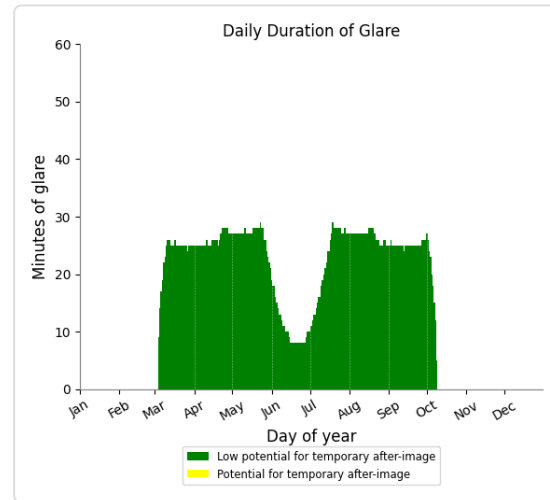
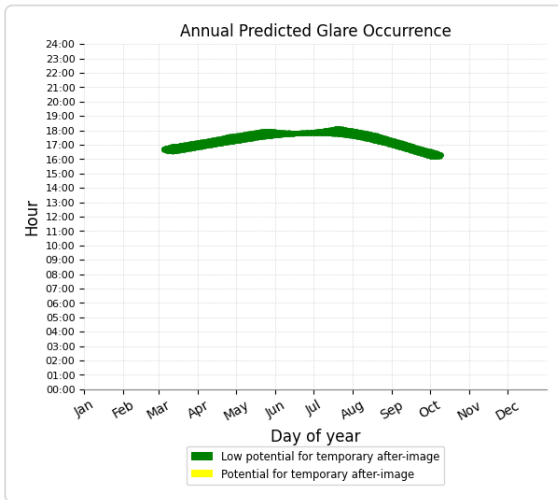
Green glare: 6,002 min.



PV array 2 and Route: 1500Ft-CA_5L23R_05L-L_23R-R

Yellow glare: none

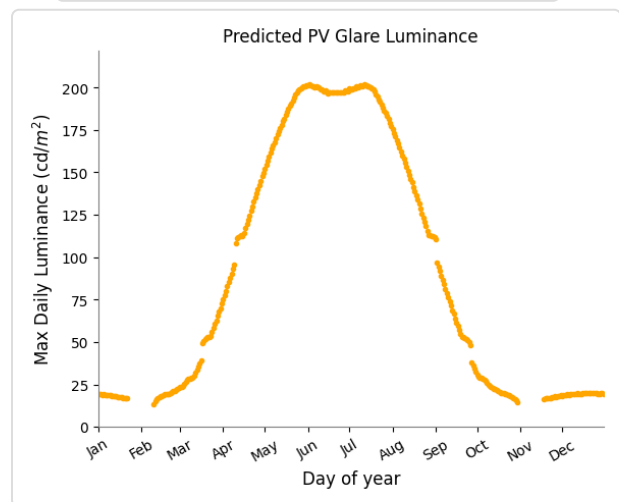
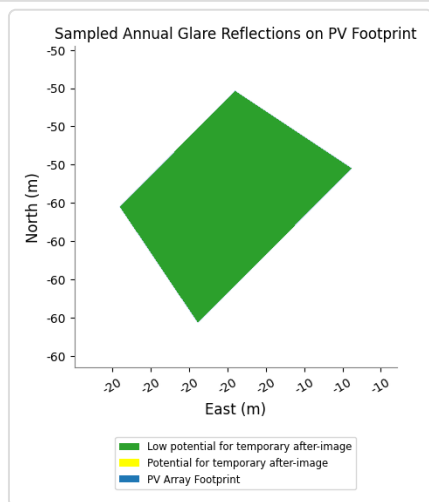
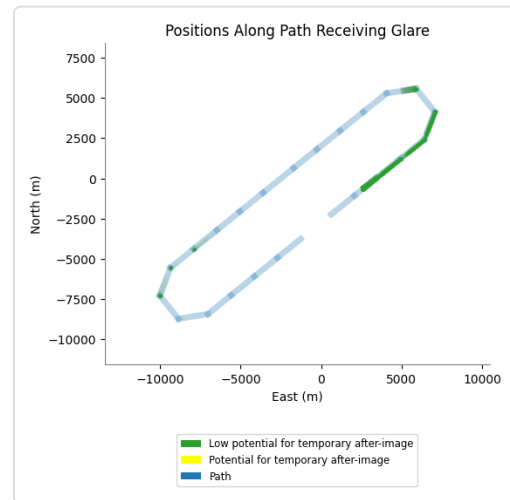
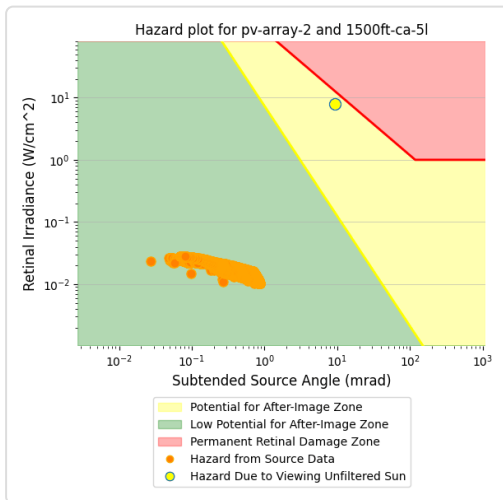
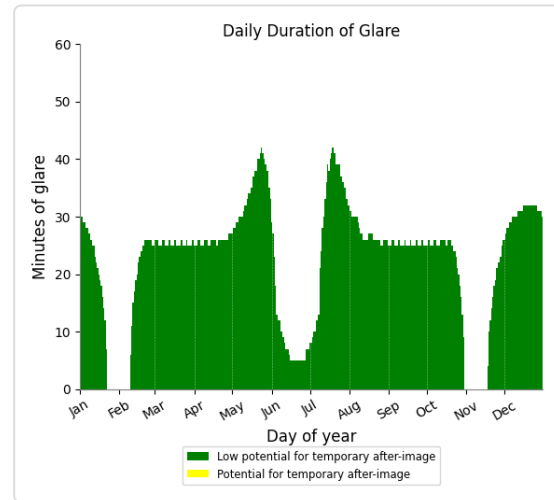
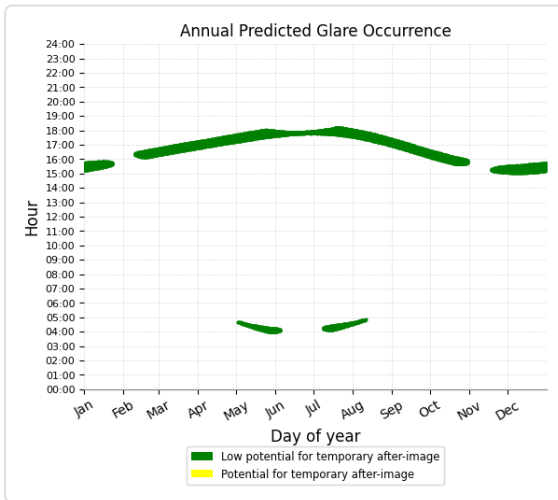
Green glare: 5,022 min.



PV array 2 and Route: 1500Ft-CA_5L23R_05L-R_23R-L

Yellow glare: none

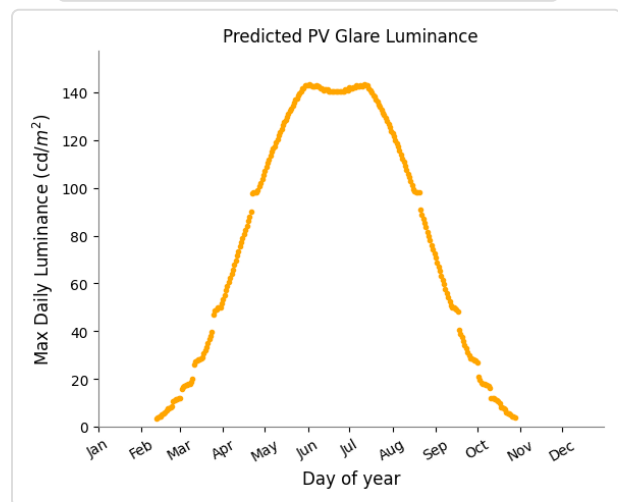
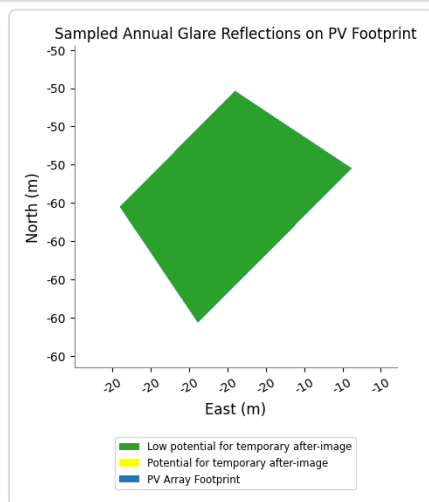
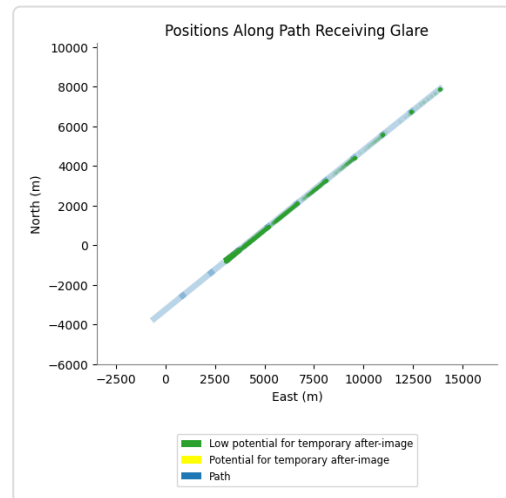
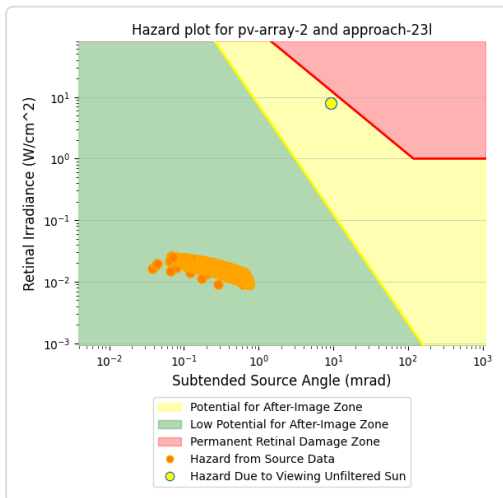
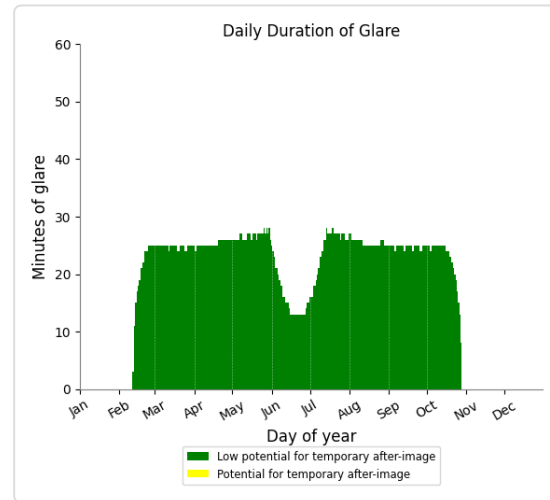
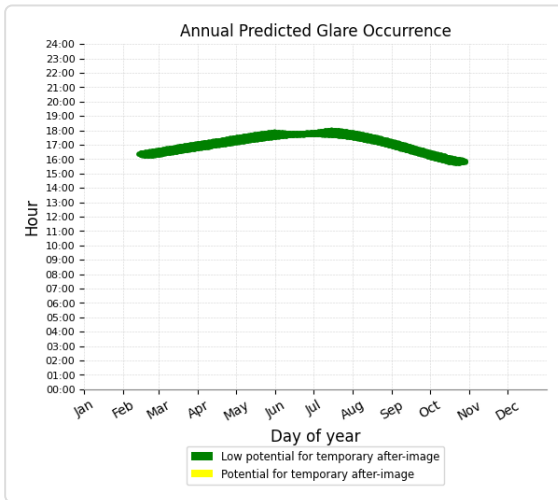
Green glare: 8,211 min.



PV array 2 and Route: Approach_23L

Yellow glare: none

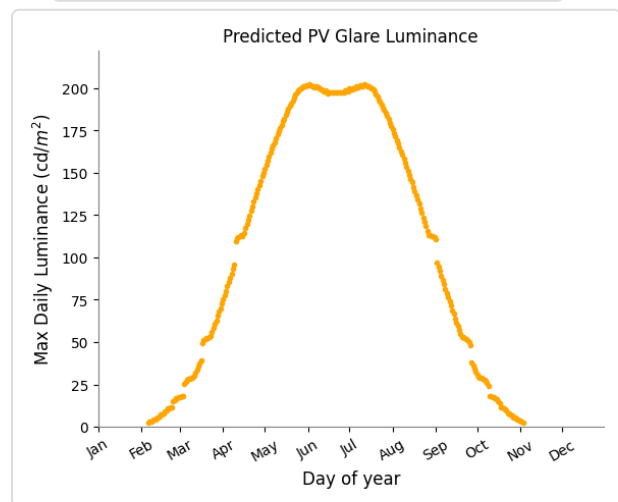
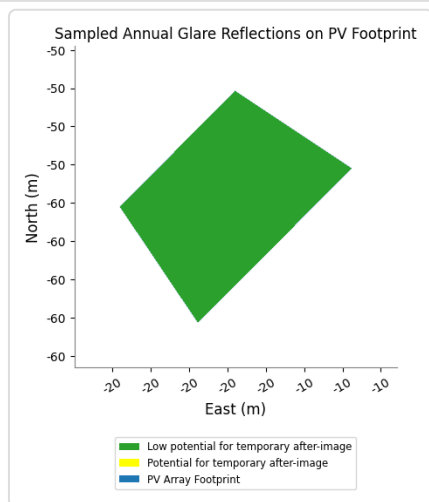
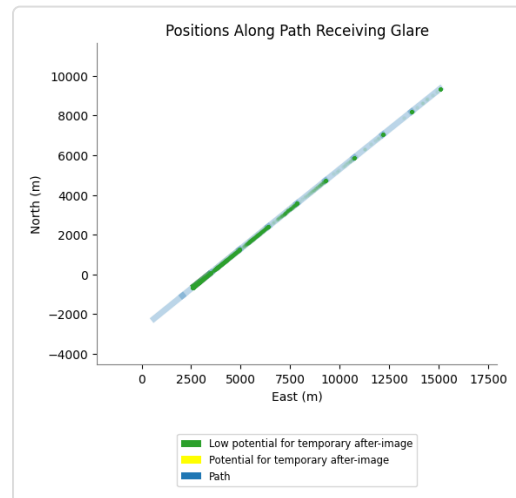
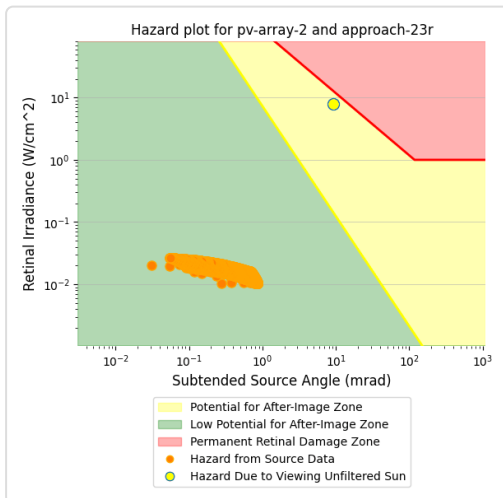
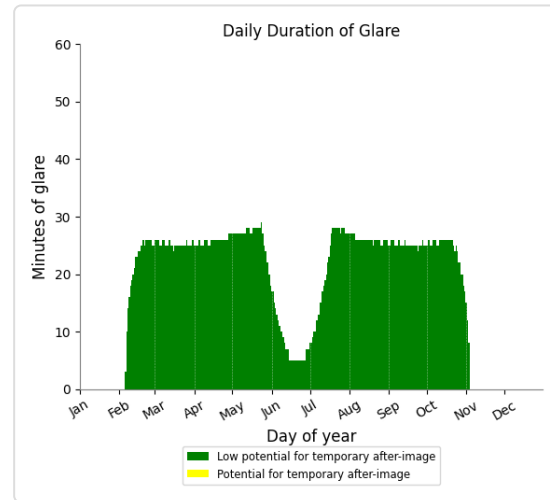
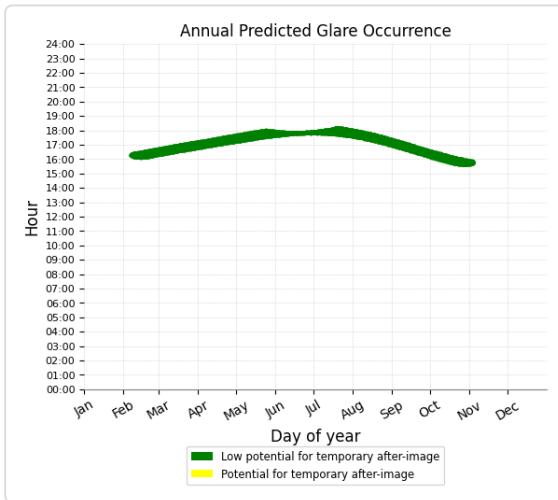
Green glare: 6,093 min.



PV array 2 and Route: Approach_23R

Yellow glare: none

Green glare: 6,114 min.



PV array 2 and Route: 1000Ft-GA_5R23L_05R-L_23L-R

No glare found

PV array 2 and Route: Approach_05L

No glare found

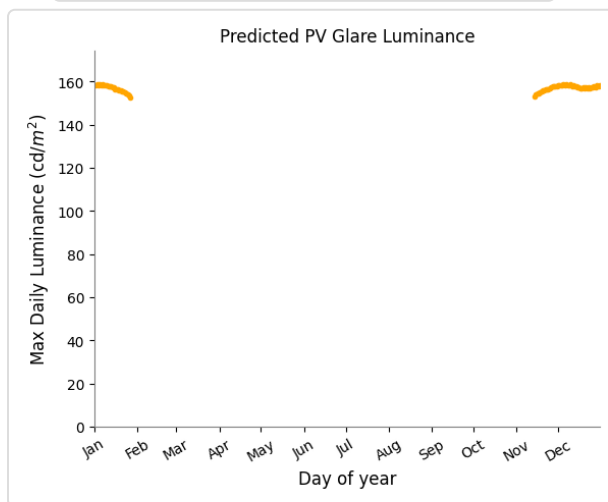
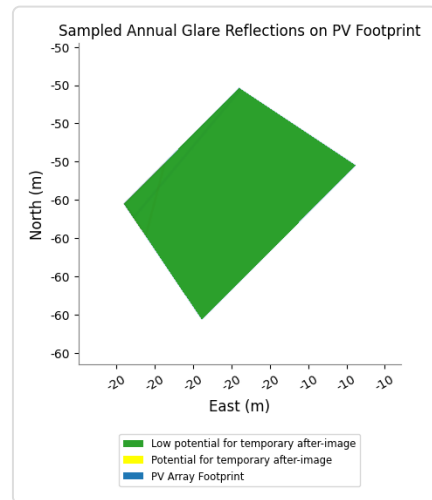
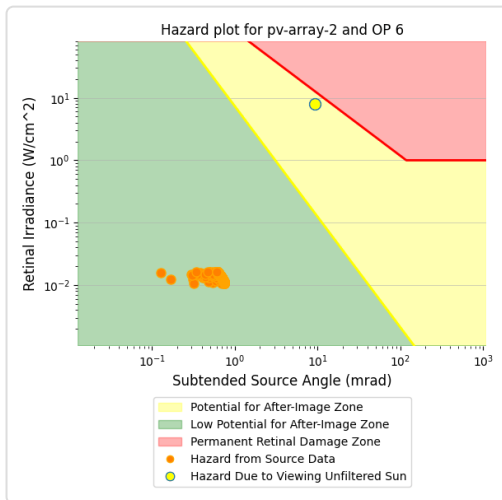
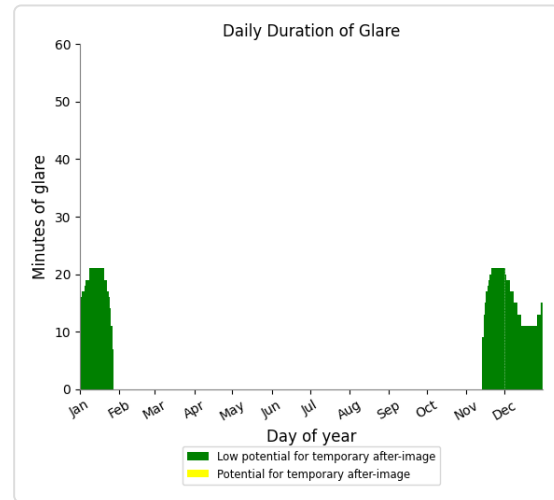
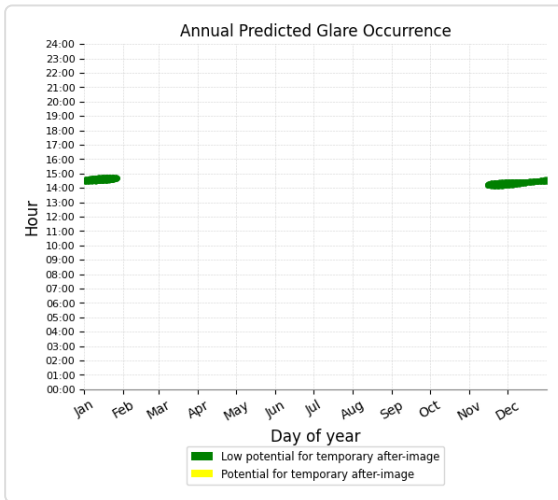
PV array 2 and Route: Approach_05R

No glare found

PV array 2 and OP 6

Yellow glare: none

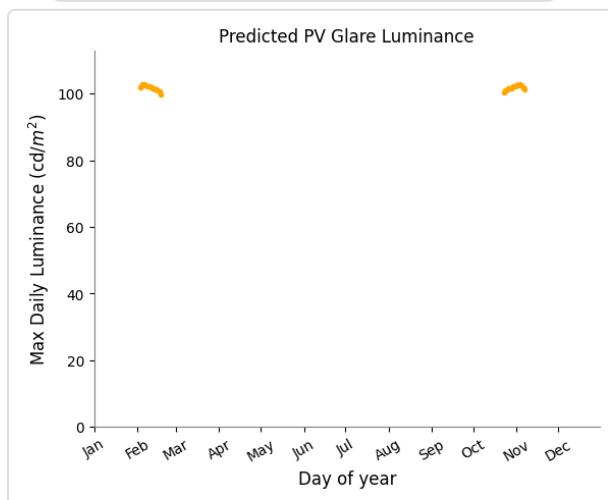
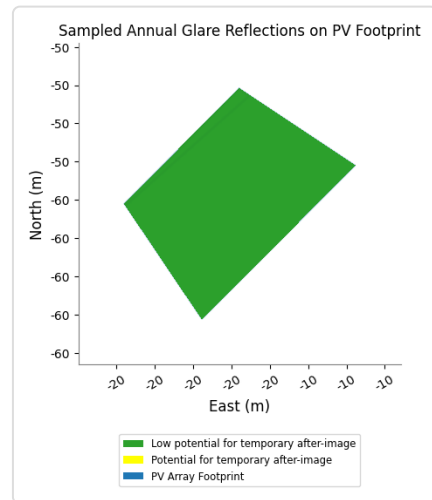
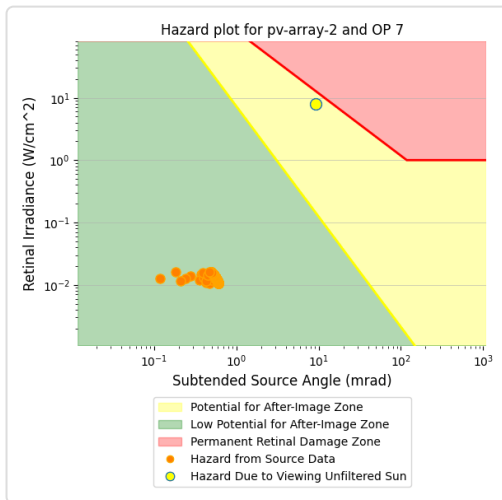
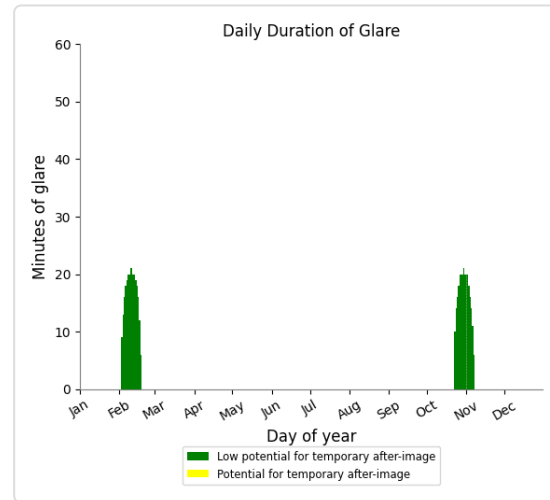
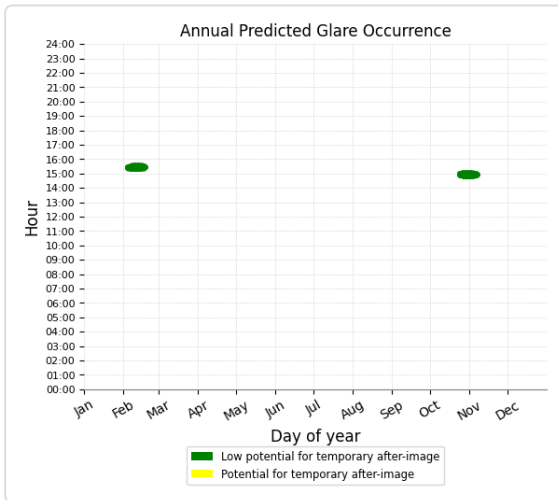
Green glare: 1,250 min.



PV array 2 and OP 7

Yellow glare: none

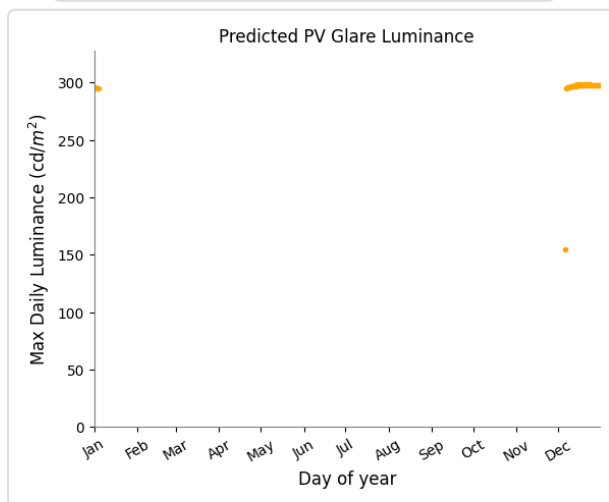
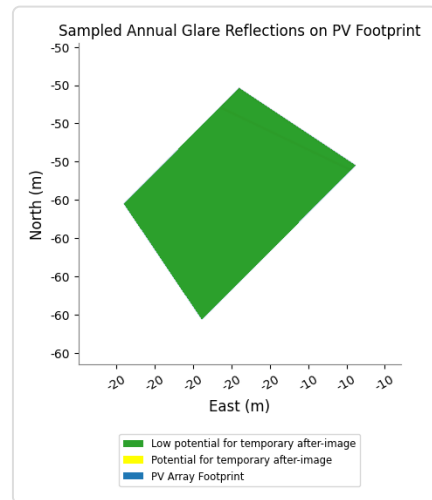
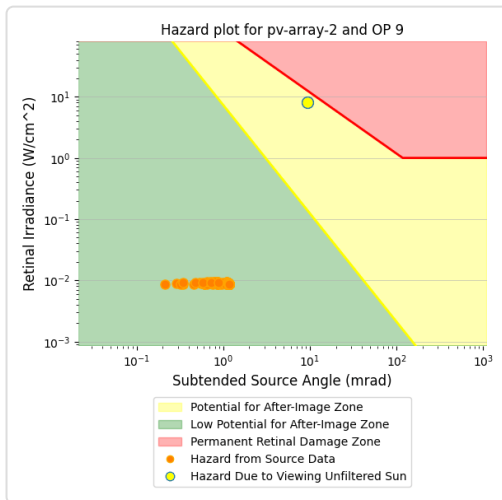
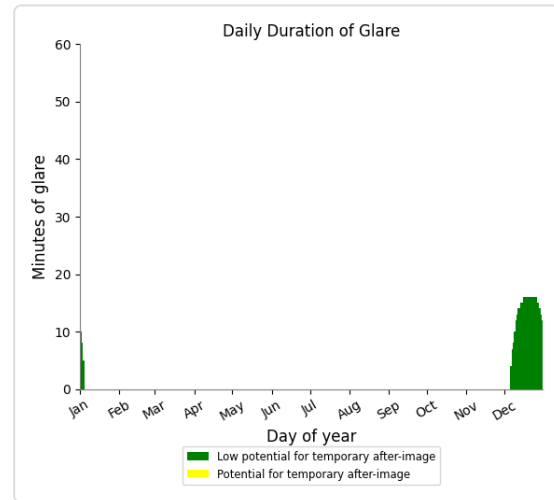
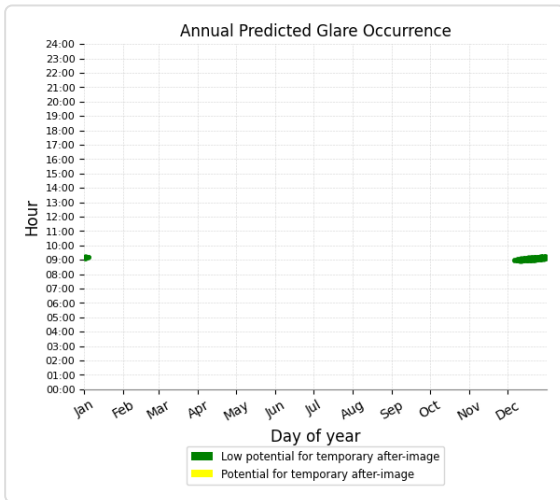
Green glare: 532 min.



PV array 2 and OP 9

Yellow glare: none

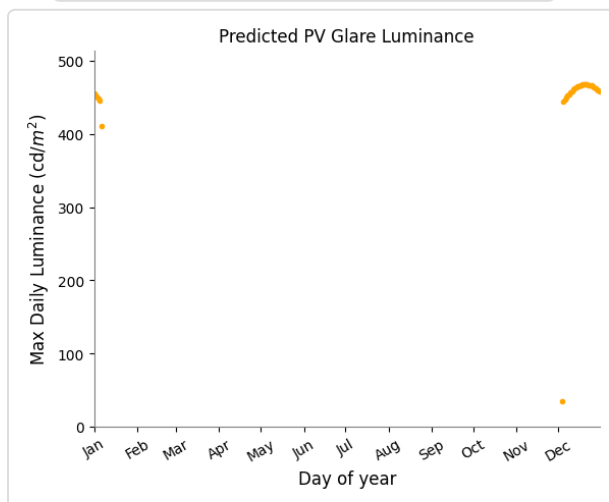
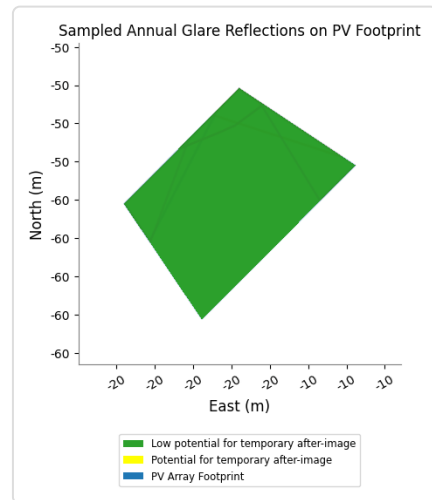
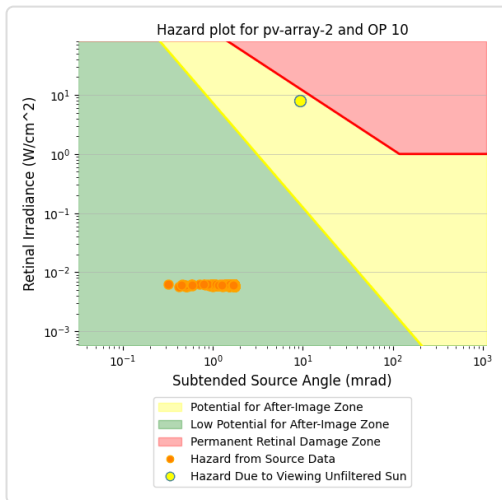
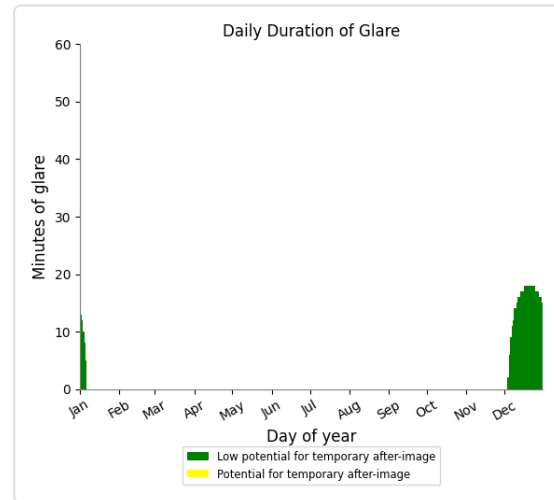
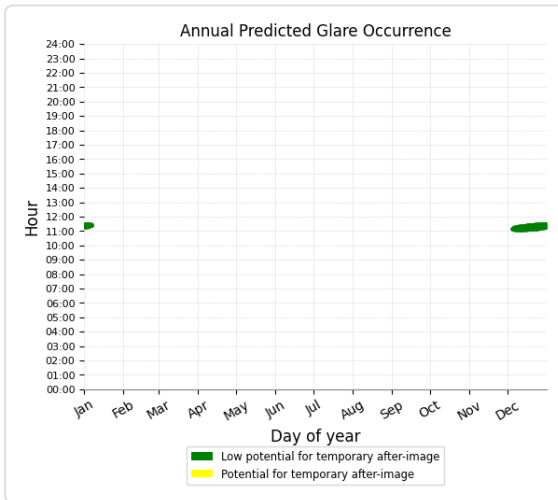
Green glare: 392 min.



PV array 2 and OP 10

Yellow glare: none

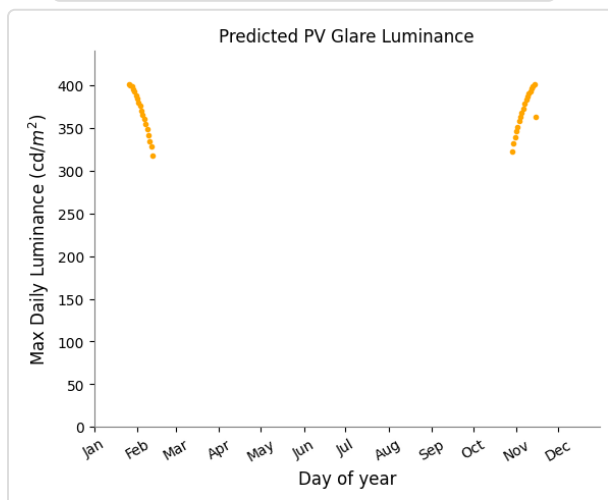
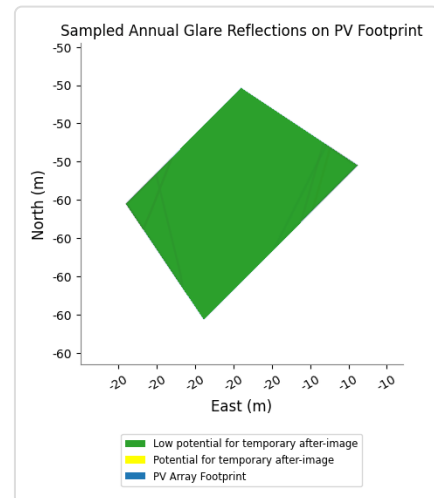
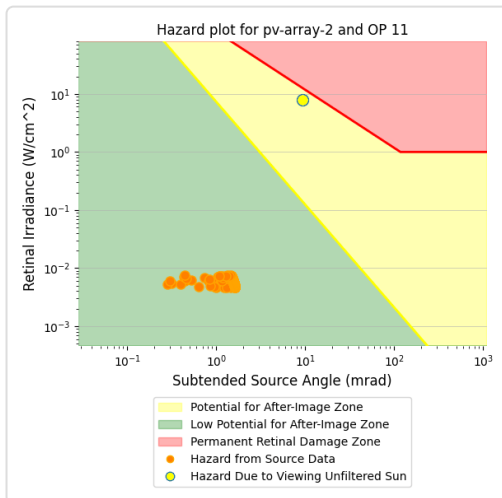
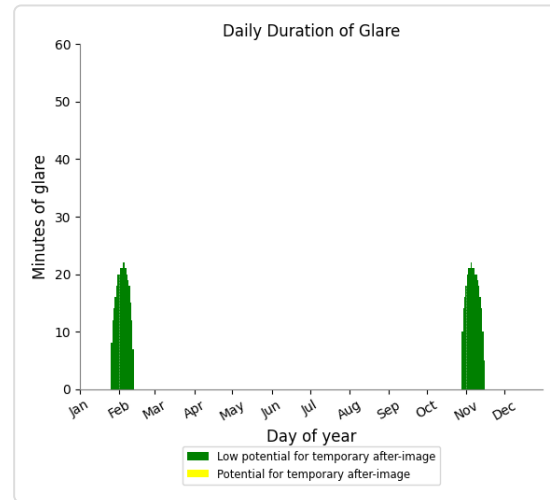
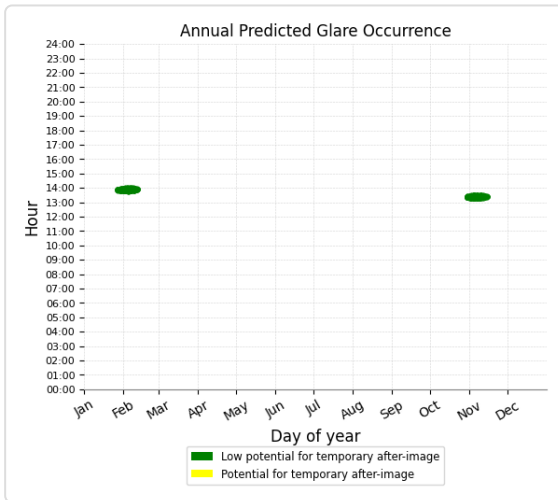
Green glare: 488 min.



PV array 2 and OP 11

Yellow glare: none

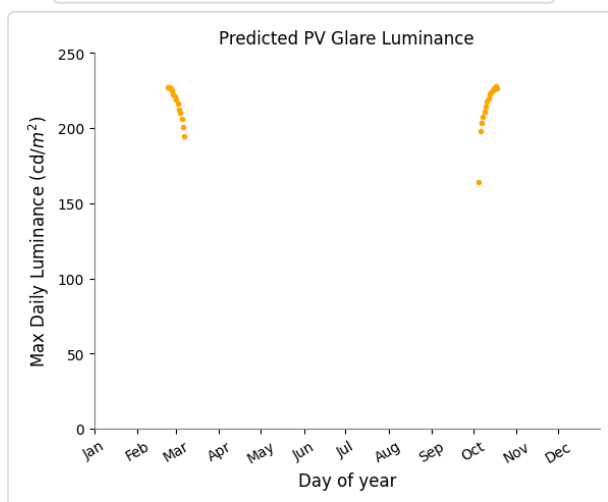
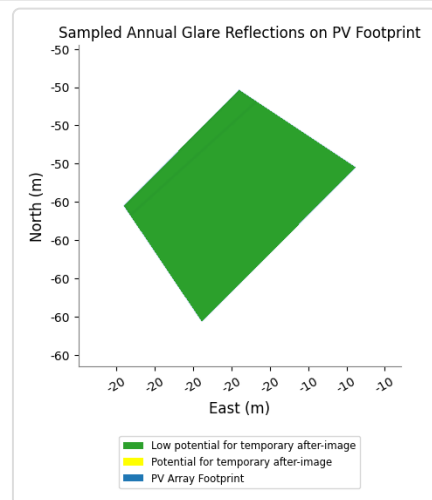
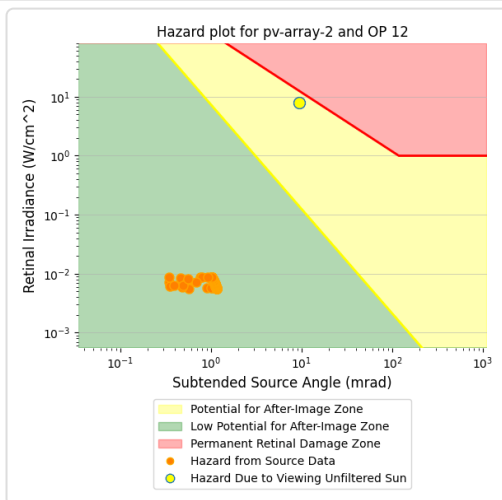
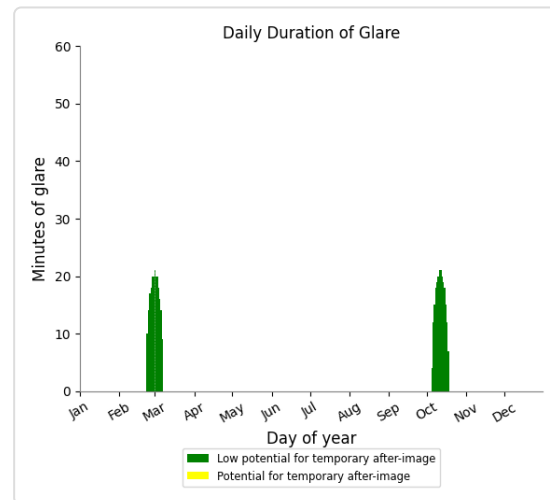
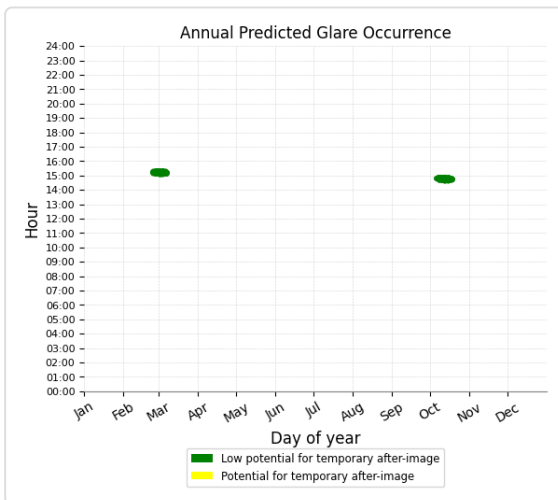
Green glare: 612 min.



PV array 2 and OP 12

Yellow glare: none

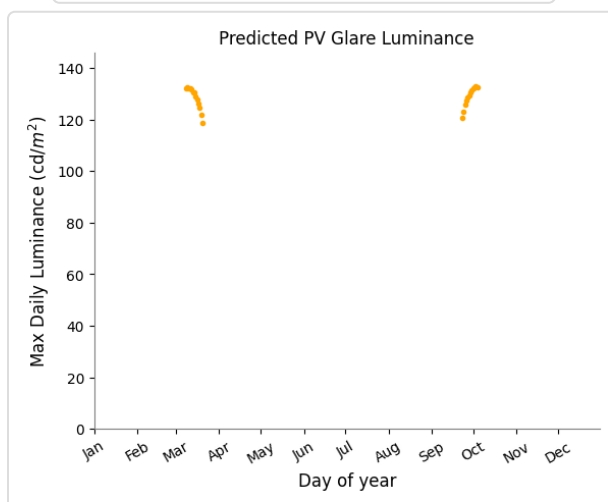
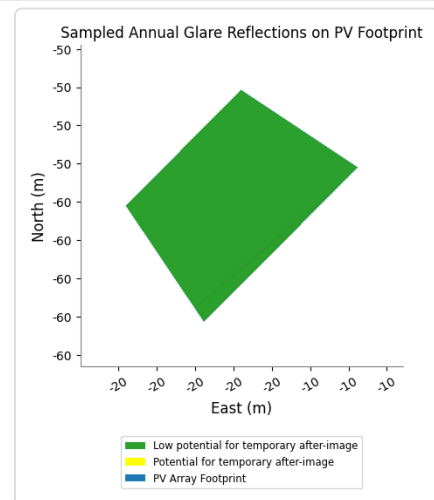
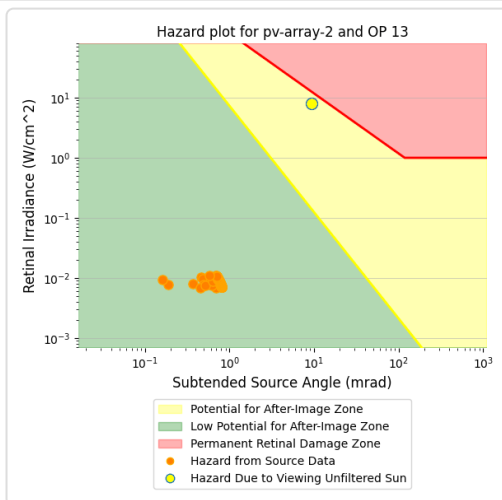
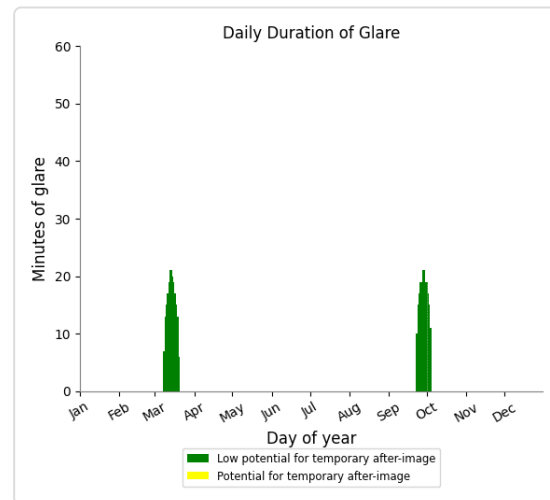
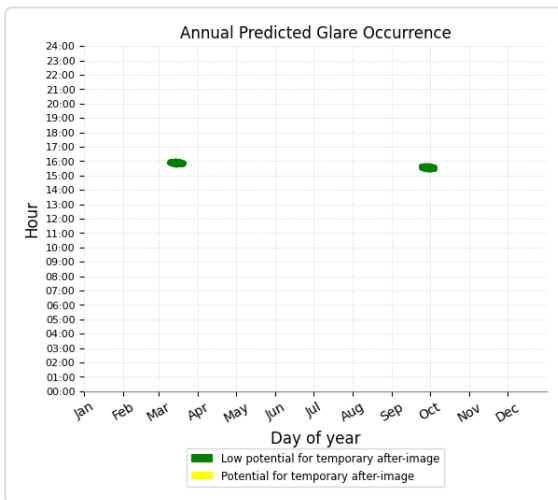
Green glare: 438 min.



PV array 2 and OP 13

Yellow glare: none

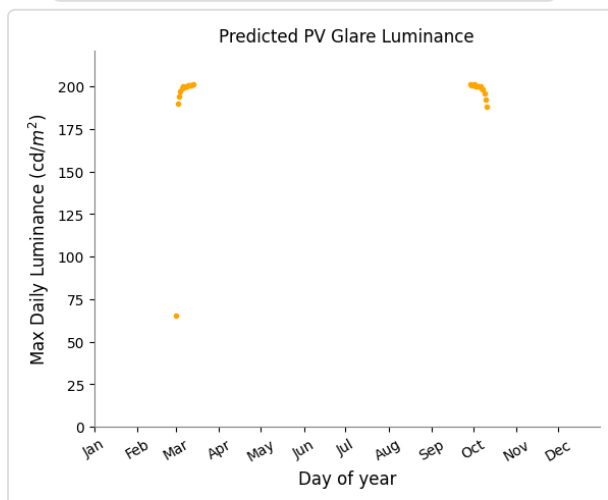
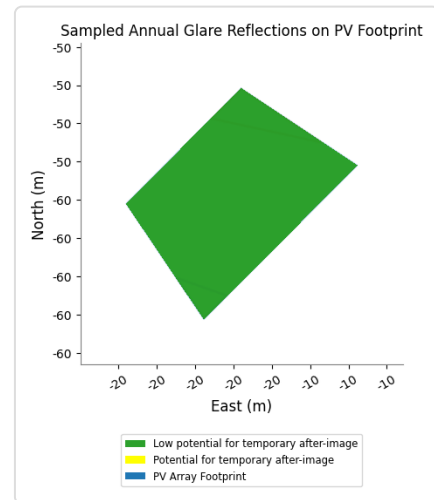
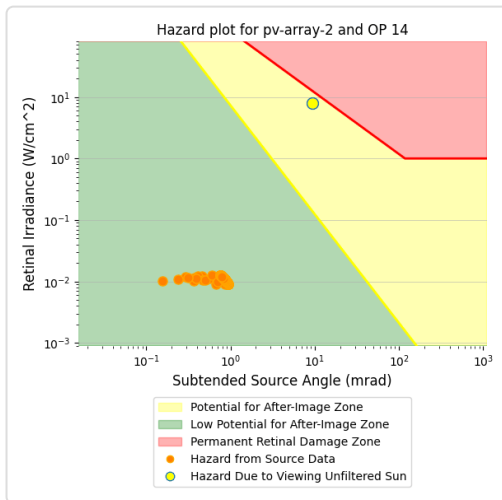
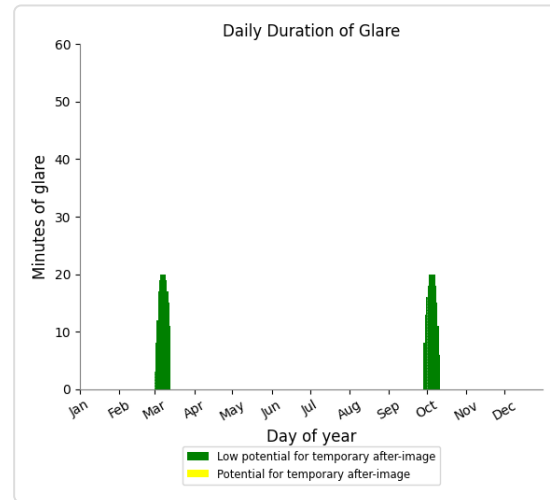
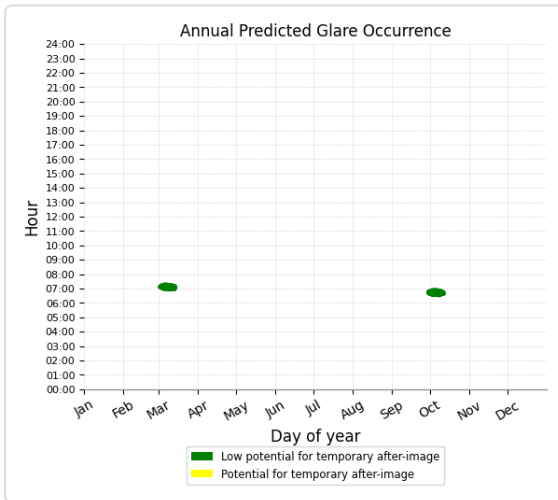
Green glare: 406 min.



PV array 2 and OP 14

Yellow glare: none

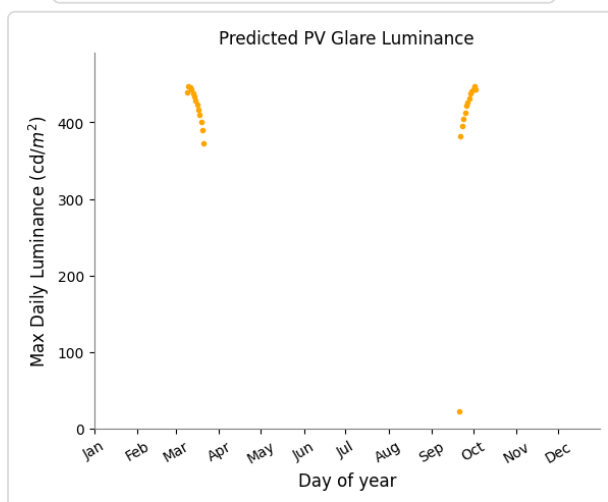
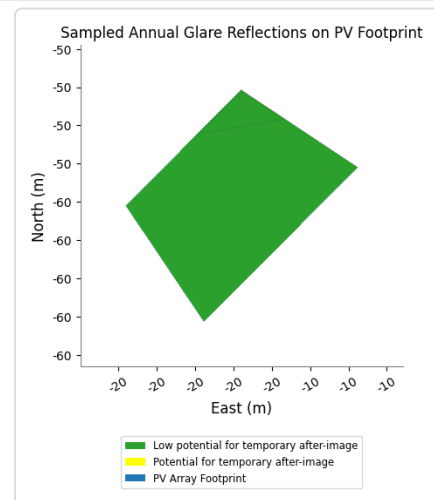
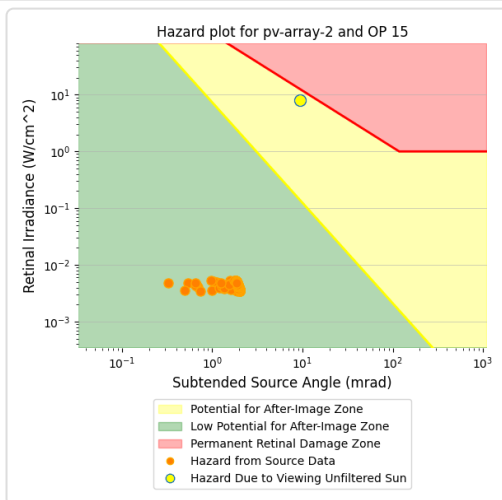
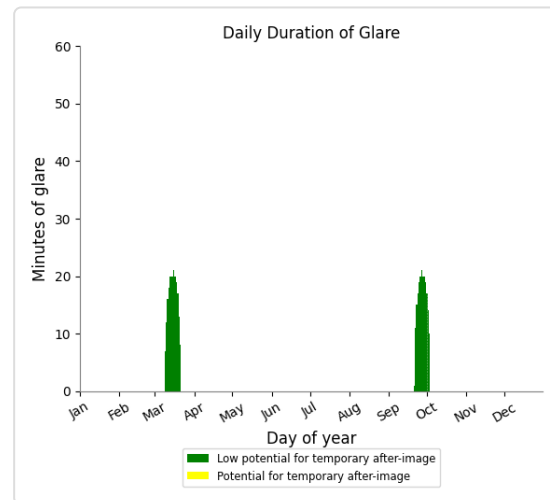
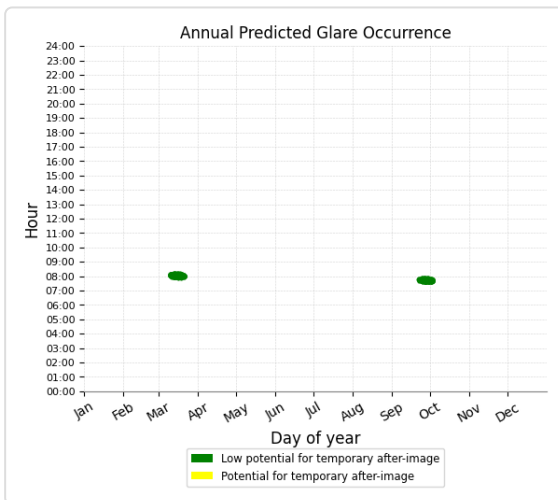
Green glare: 406 min.



PV array 2 and OP 15

Yellow glare: none

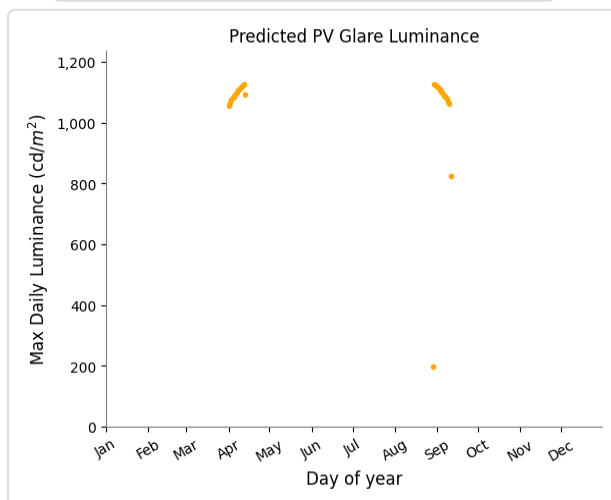
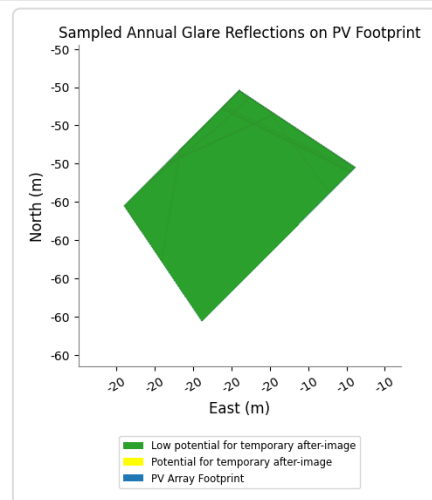
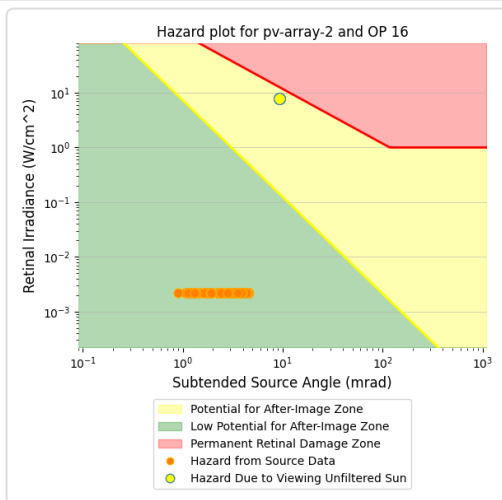
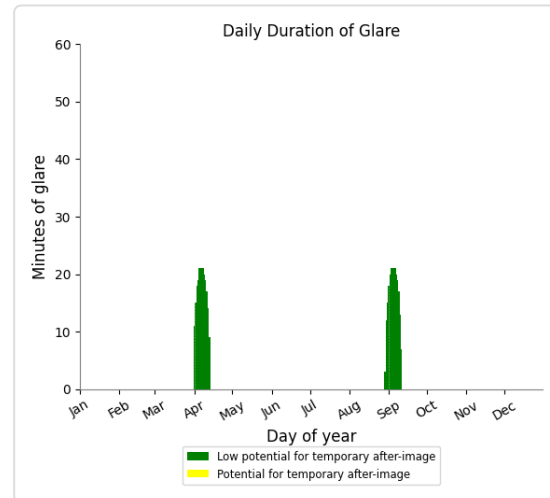
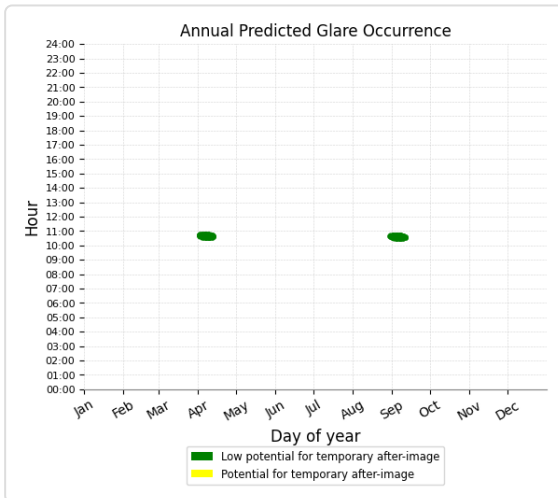
Green glare: 415 min.



PV array 2 and OP 16

Yellow glare: none

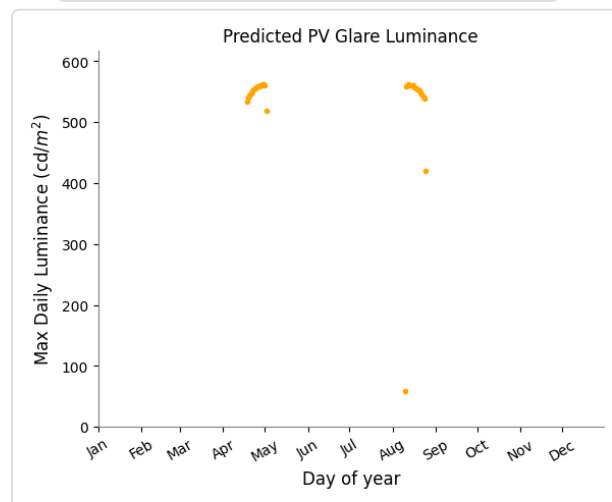
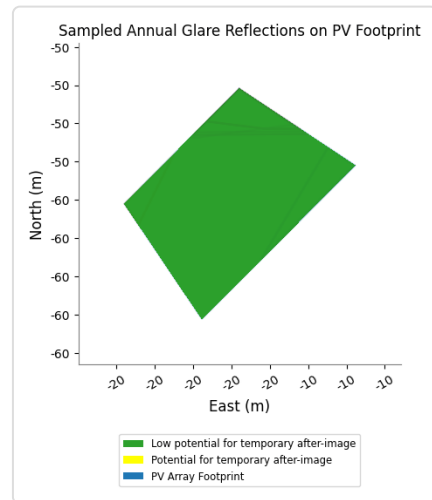
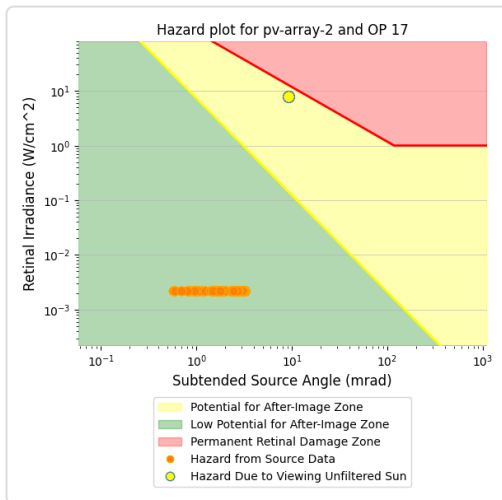
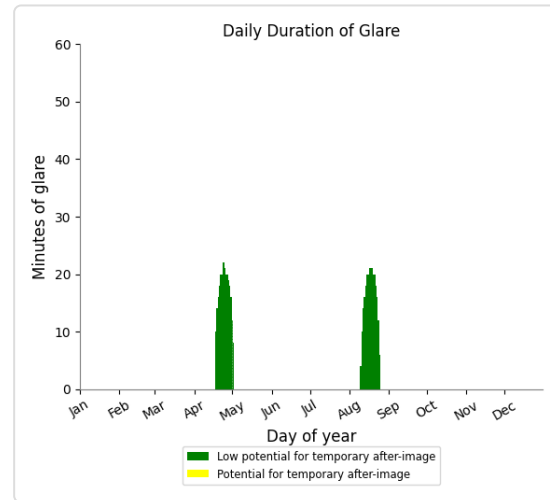
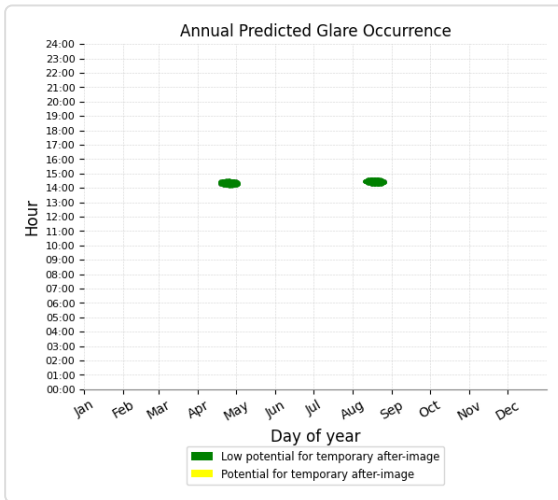
Green glare: 454 min.



PV array 2 and OP 17

Yellow glare: none

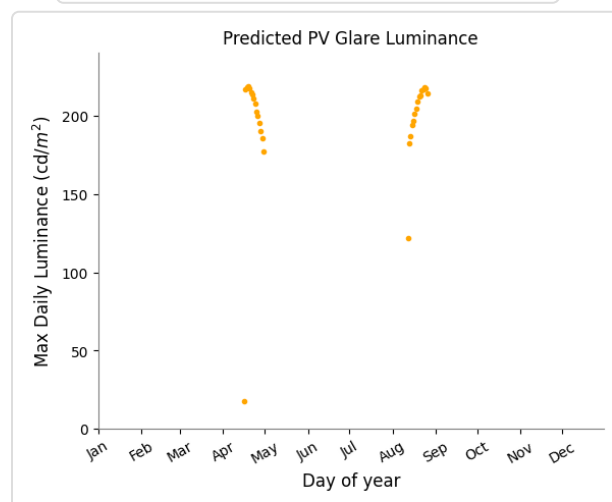
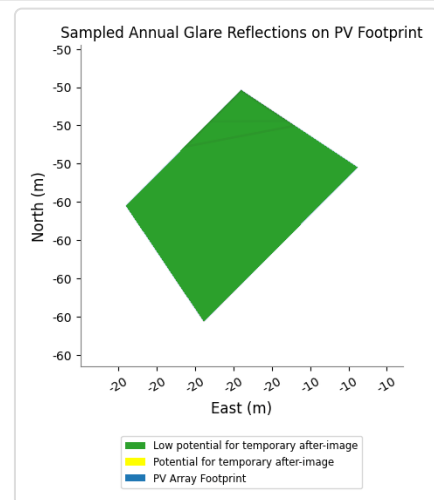
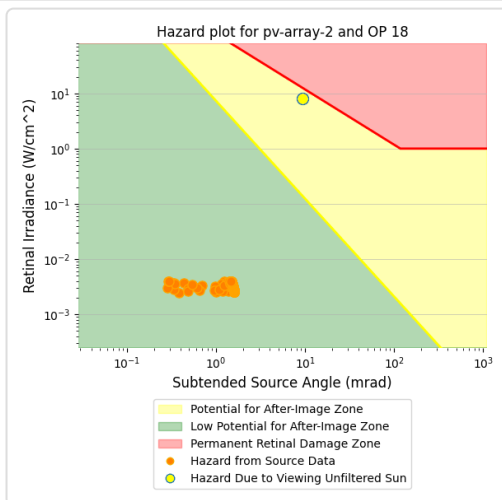
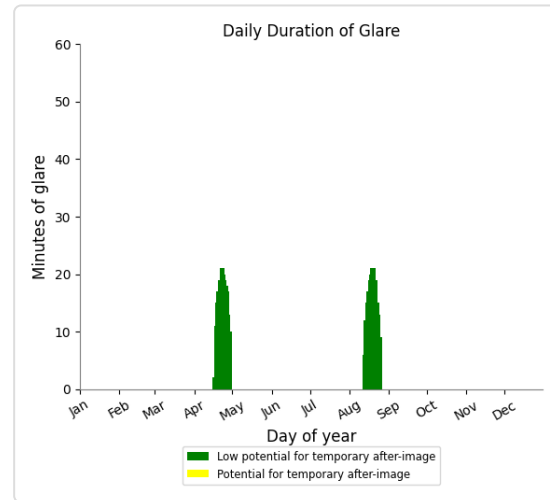
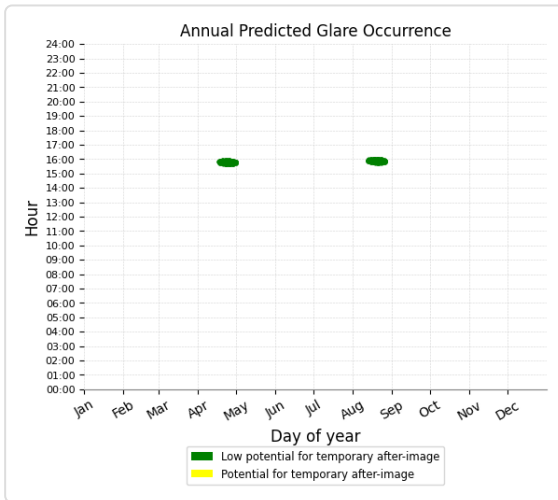
Green glare: 511 min.



PV array 2 and OP 18

Yellow glare: none

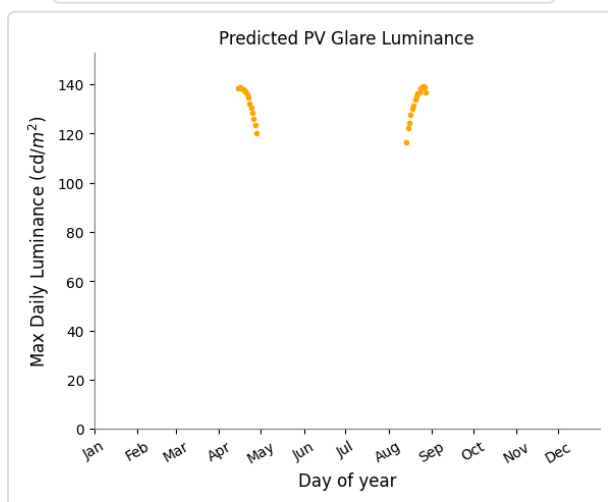
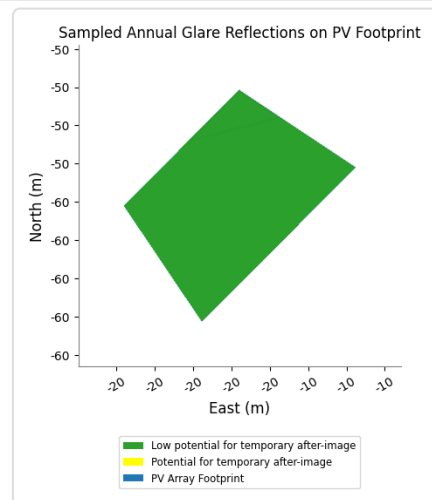
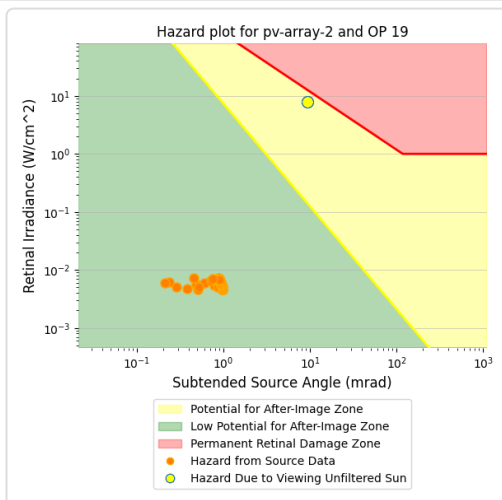
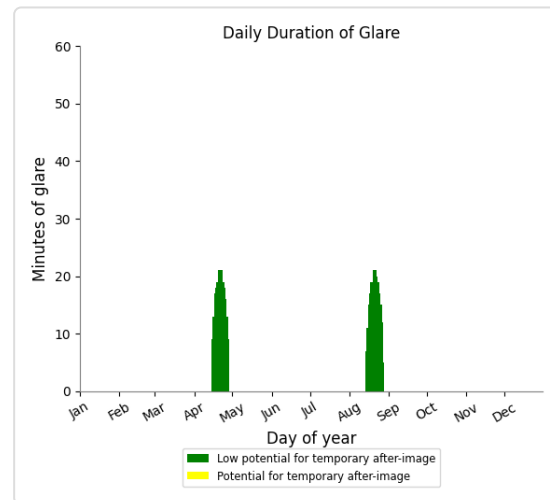
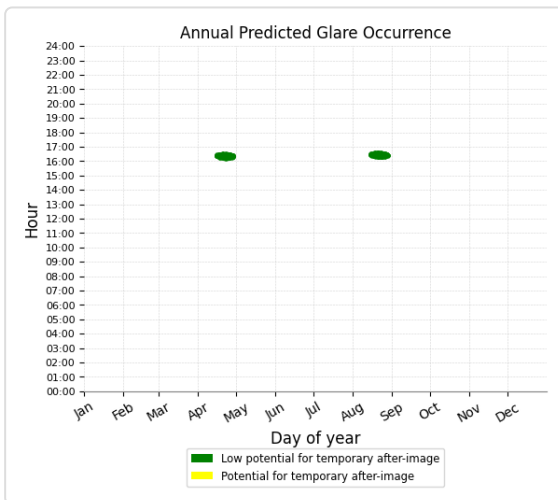
Green glare: 491 min.



PV array 2 and OP 19

Yellow glare: none

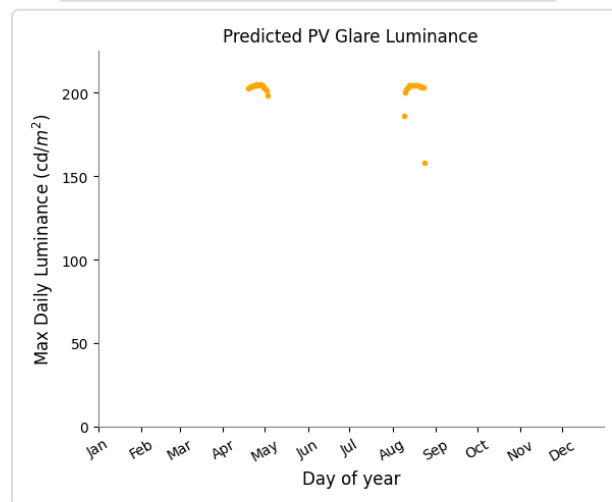
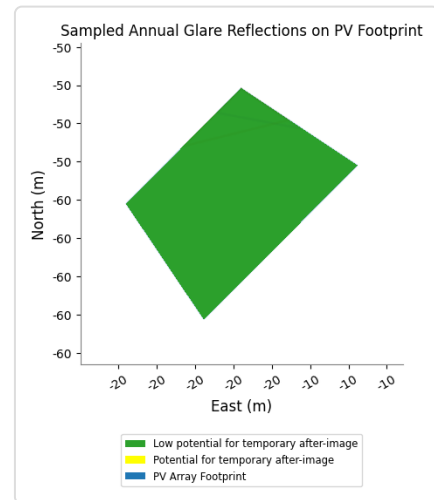
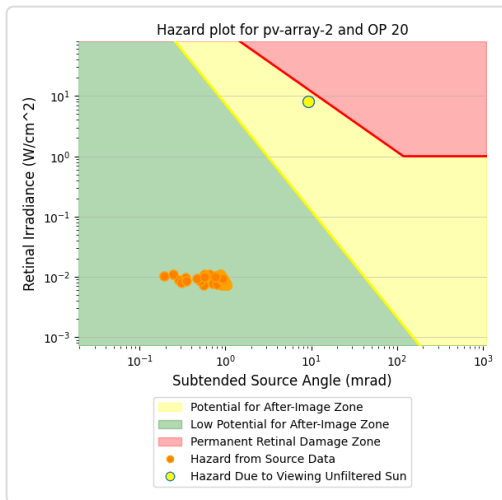
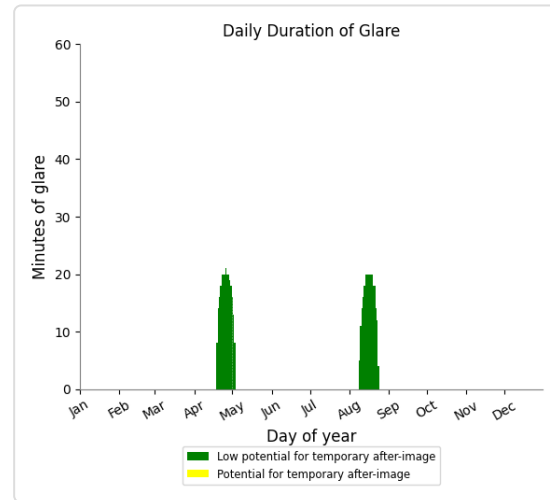
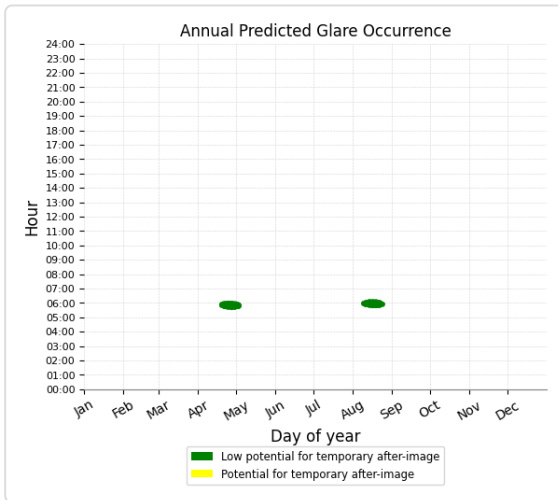
Green glare: 474 min.



PV array 2 and OP 20

Yellow glare: none

Green glare: 501 min.



PV array 2 and 1-ATCT

No glare found

PV array 2 and OP 2

No glare found

PV array 2 and OP 3

No glare found

PV array 2 and OP 4

No glare found

PV array 2 and OP 5

No glare found

PV array 2 and OP 8

No glare found

PV array 2 and OP 21

No glare found

PV array 2 and OP 22

No glare found

PV array 2 and OP 23

No glare found

PV array 2 and OP 24

No glare found

PV array 2 and OP 25

No glare found

PV array 2 and OP 26

No glare found

PV array 2 and OP 27

No glare found

PV array 2 and OP 28

No glare found

PV array 2 and OP 29

No glare found

PV array 2 and OP 30

No glare found

PV array 2 and OP 31

No glare found

PV array 2 and OP 32

No glare found

PV array 2 and OP 33

No glare found

PV array 2 and OP 34

No glare found

PV array 2 and OP 35

No glare found

PV array 2 and OP 36

No glare found

PV array 2 and OP 37

No glare found

PV array 2 and OP 38

No glare found

PV array 2 and OP 39

No glare found

PV array 2 and OP 40

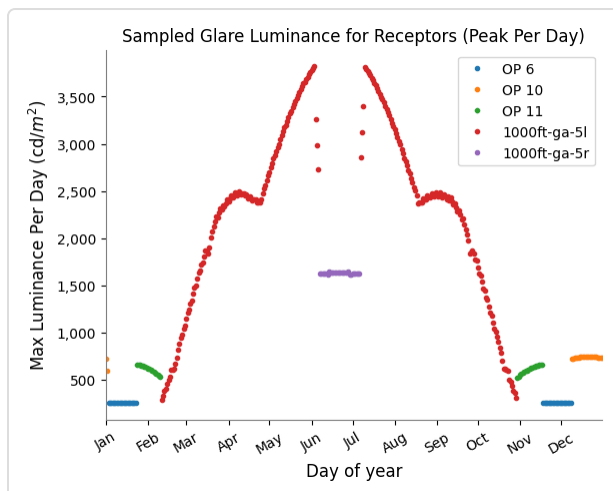
No glare found

PV: PV array 3 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
1000Ft-GA_5L23R_05L-L_23R-R	3,113	51.9	0	0.0	340
1000Ft-GA_5L23R_05L-R_23R-L	8,756	145.9	0	0.0	3,819
1000Ft-GA_5R23L_05R-R_23L-L	6,005	100.1	0	0.0	1,644
1500Ft-CA_5L23R_05L-L_23R-R	5,019	83.7	0	0.0	340
1500Ft-CA_5L23R_05L-R_23R-L	8,138	135.6	0	0.0	340
Approach_23L	6,123	102.0	0	0.0	241
Approach_23R	6,033	100.5	0	0.0	340
1000Ft-GA_5R23L_05R-L_23L-R	0	0.0	0	0.0	0
Approach_05L	0	0.0	0	0.0	0
Approach_05R	0	0.0	0	0.0	0
OP 6	1,300	21.7	0	0.0	261
OP 7	540	9.0	0	0.0	170
OP 9	278	4.6	0	0.0	478
OP 10	308	5.1	0	0.0	748
OP 11	648	10.8	0	0.0	663
OP 12	440	7.3	0	0.0	376
OP 13	411	6.8	0	0.0	220
OP 14	403	6.7	0	0.0	326
OP 15	431	7.2	0	0.0	726
OP 16	462	7.7	0	0.0	1,728
OP 17	514	8.6	0	0.0	918
OP 18	490	8.2	0	0.0	363
OP 19	479	8.0	0	0.0	231
OP 20	502	8.4	0	0.0	334
1-ATCT	0	0.0	0	0.0	0
OP 2	0	0.0	0	0.0	0
OP 3	0	0.0	0	0.0	0
OP 4	0	0.0	0	0.0	0
OP 5	0	0.0	0	0.0	0
OP 8	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 24	0	0.0	0	0.0	0
OP 25	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	0	0.0	0

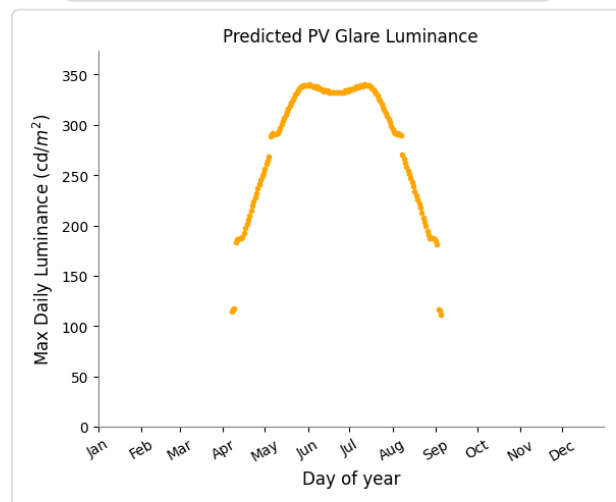
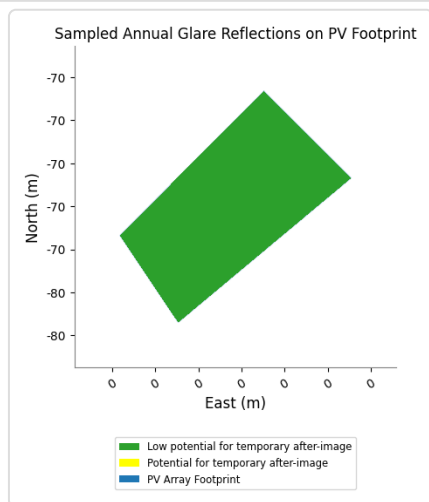
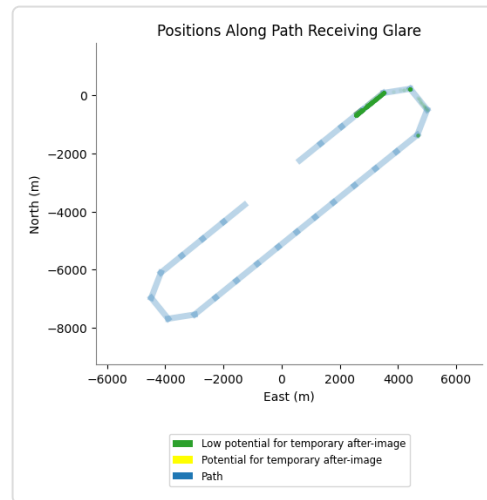
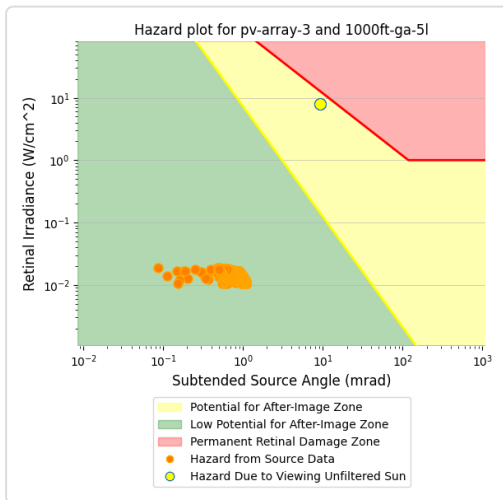
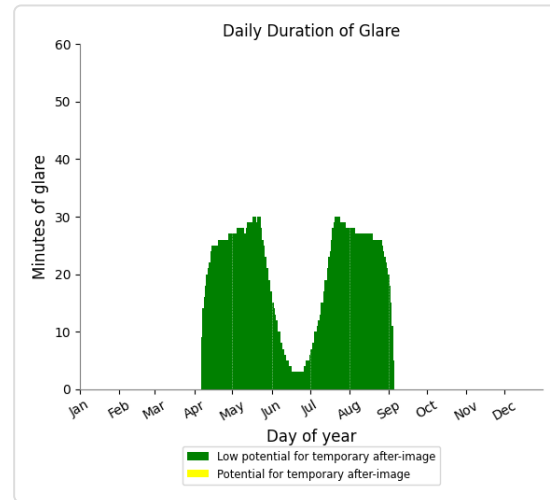
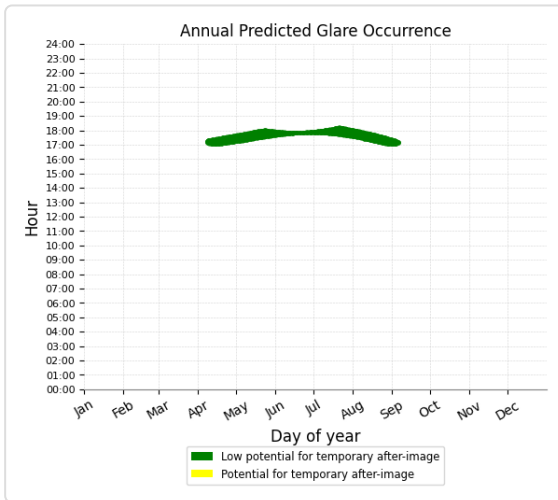
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 29	0	0.0	0	0.0	0
OP 30	0	0.0	0	0.0	0
OP 31	0	0.0	0	0.0	0
OP 32	0	0.0	0	0.0	0
OP 33	0	0.0	0	0.0	0
OP 34	0	0.0	0	0.0	0
OP 35	0	0.0	0	0.0	0
OP 36	0	0.0	0	0.0	0
OP 37	0	0.0	0	0.0	0
OP 38	0	0.0	0	0.0	0
OP 39	0	0.0	0	0.0	0
OP 40	0	0.0	0	0.0	0



PV array 3 and Route: 1000Ft-GA_5L23R_05L-L_23R-R

Yellow glare: none

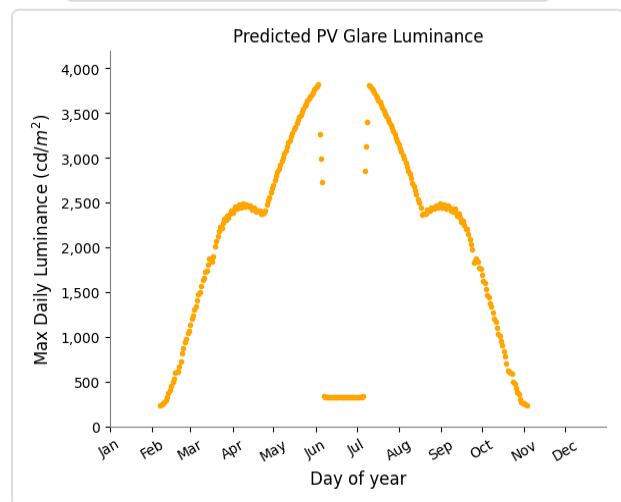
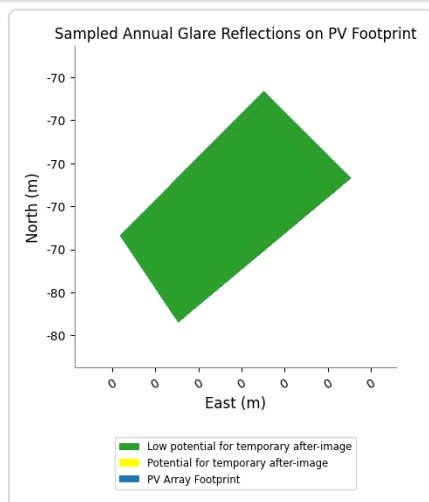
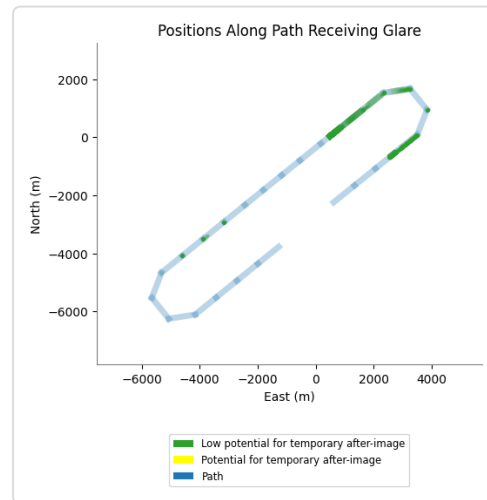
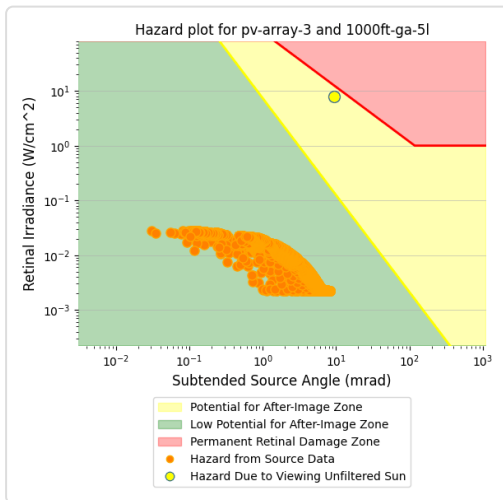
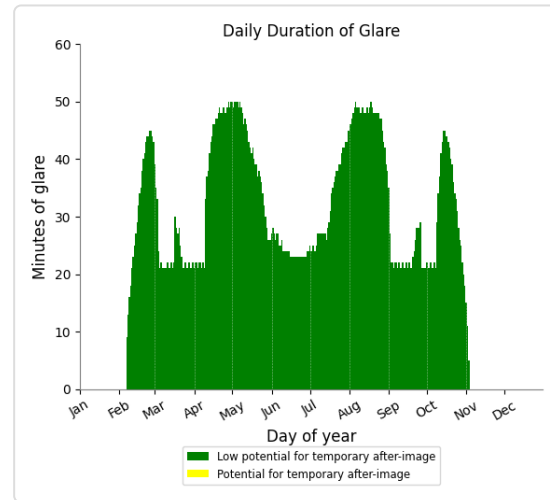
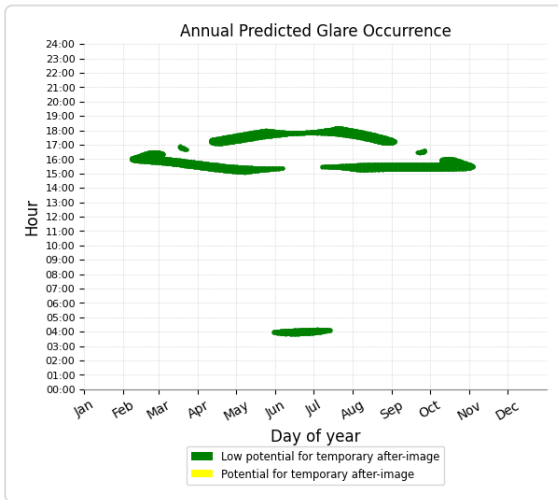
Green glare: 3,113 min.



PV array 3 and Route: 1000Ft-GA_5L23R_05L-R_23R-L

Yellow glare: none

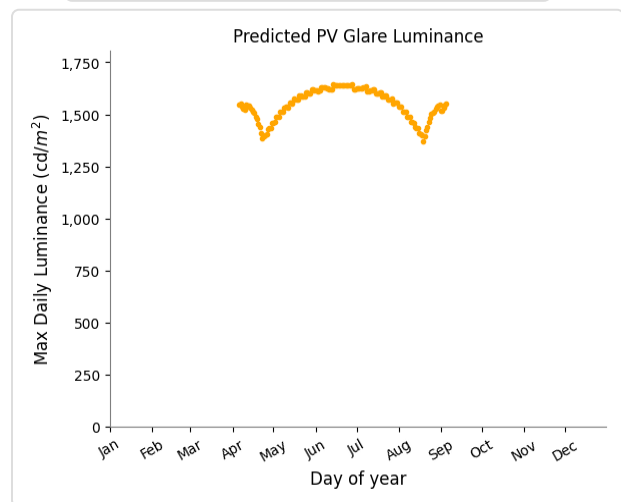
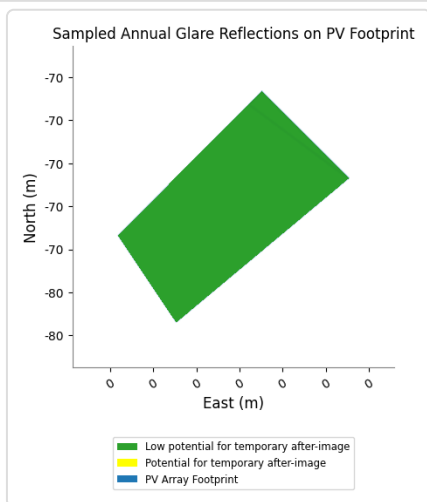
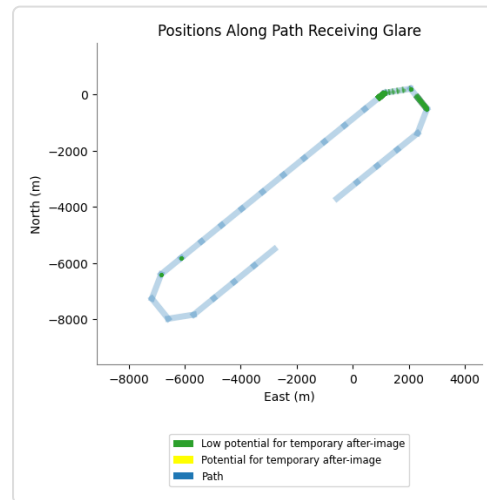
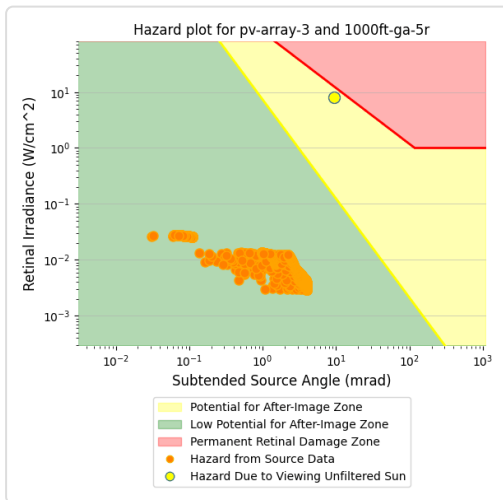
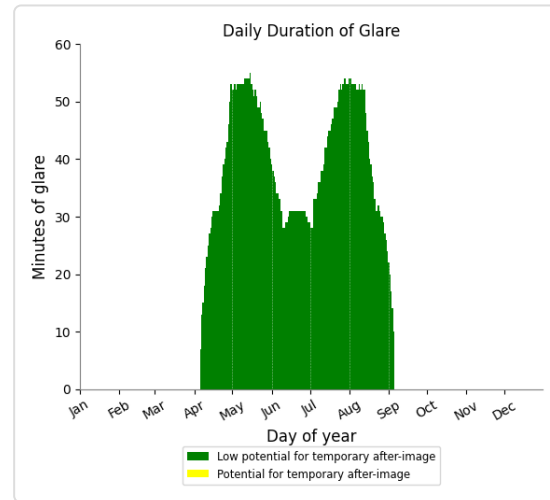
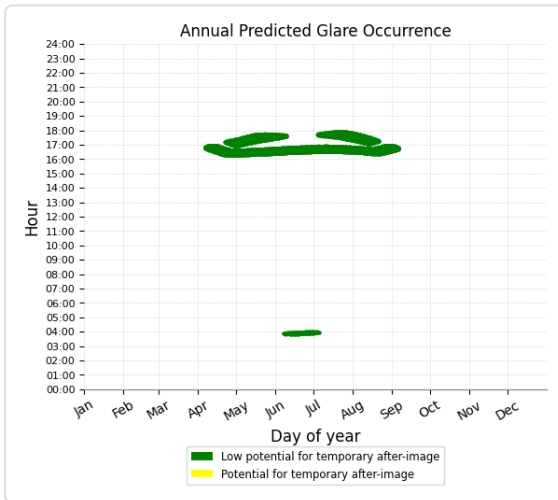
Green glare: 8,756 min.



PV array 3 and Route: 1000Ft-GA_5R23L_05R-R_23L-L

Yellow glare: none

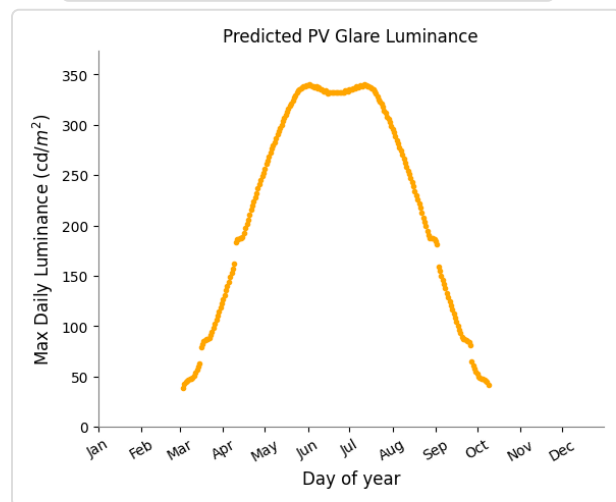
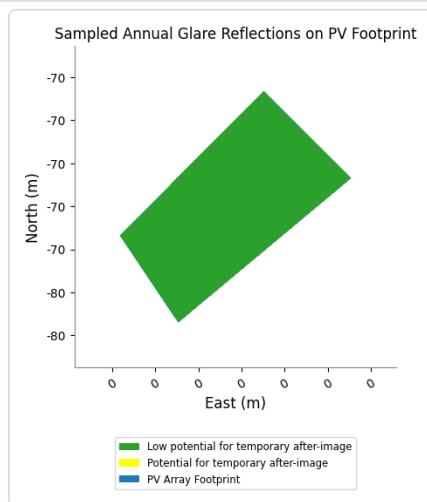
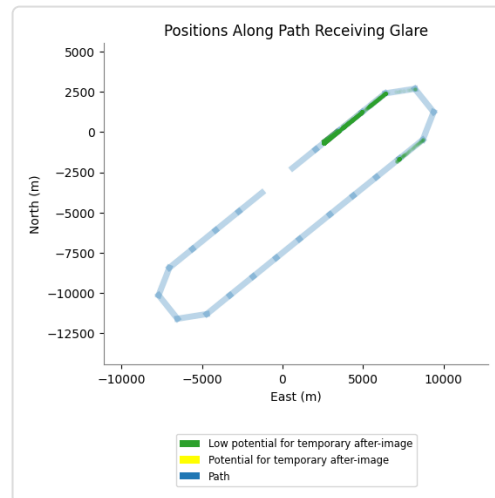
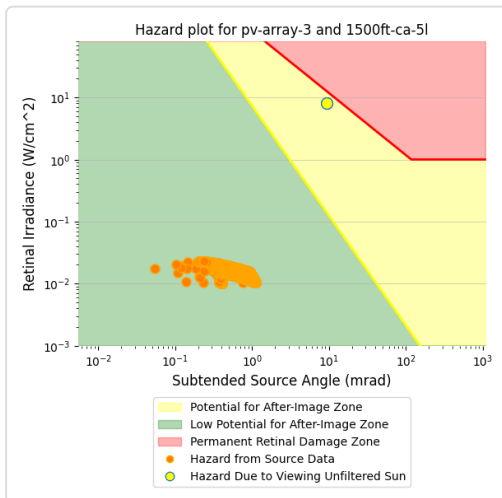
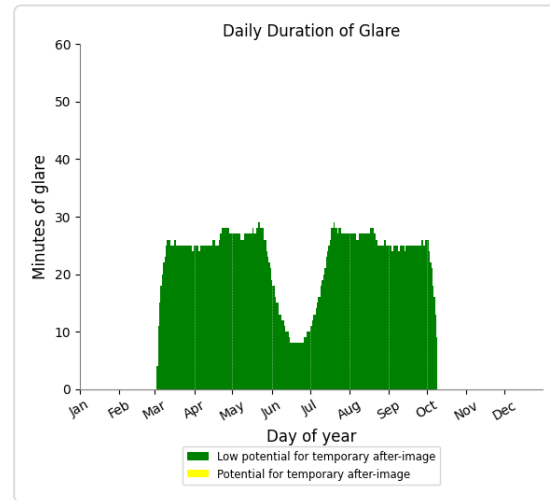
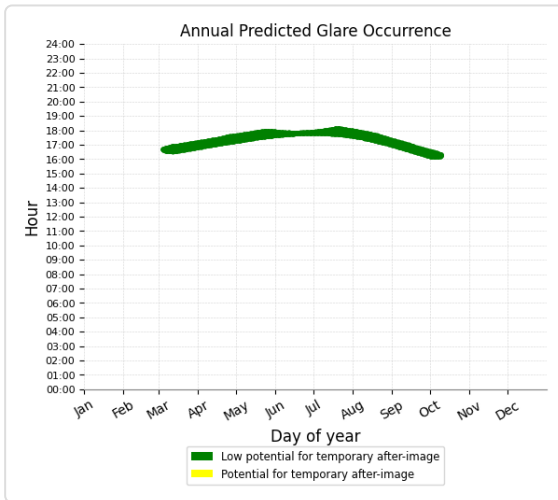
Green glare: 6,005 min.



PV array 3 and Route: 1500Ft-CA_5L23R_05L-L_23R-R

Yellow glare: none

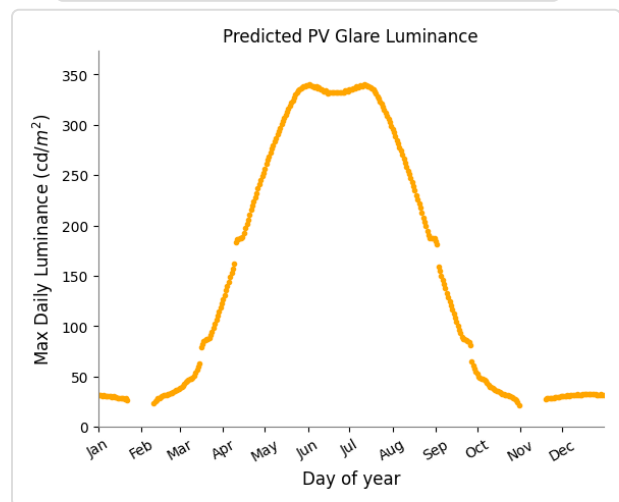
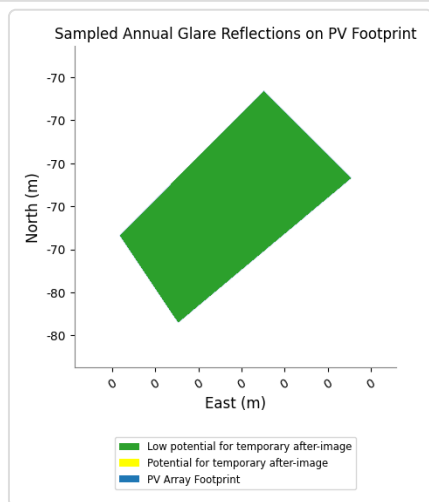
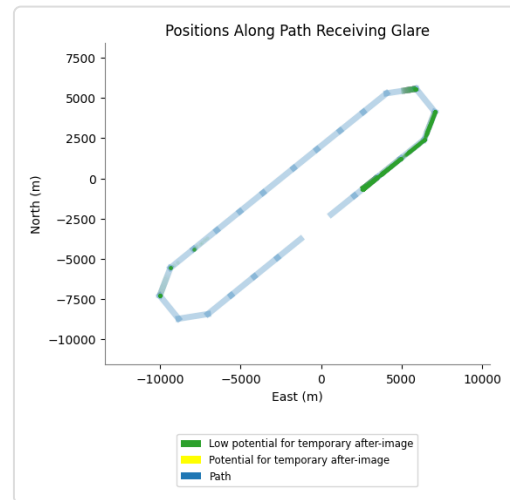
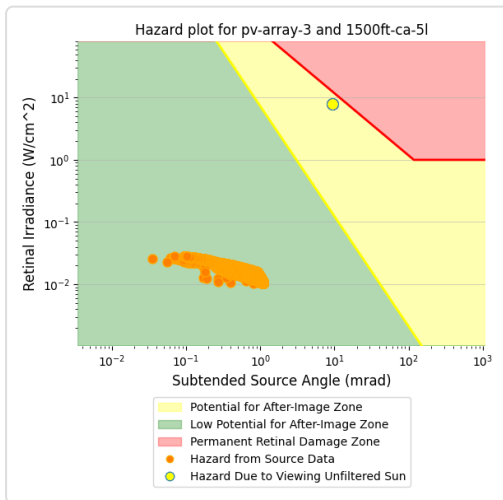
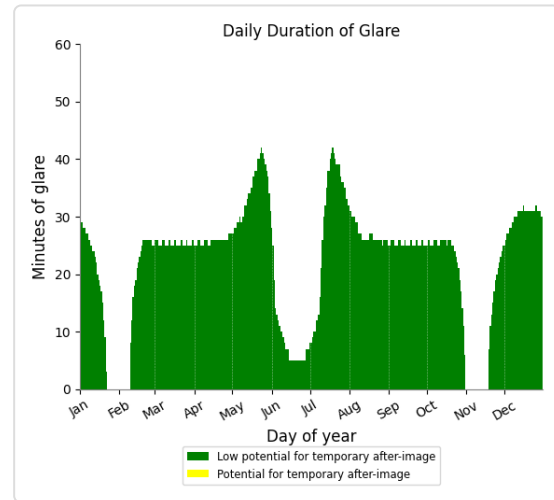
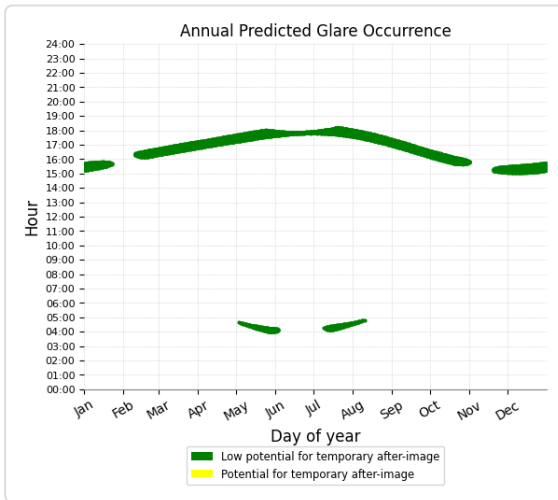
Green glare: 5,019 min.



PV array 3 and Route: 1500Ft-CA_5L23R_05L-R_23R-L

Yellow glare: none

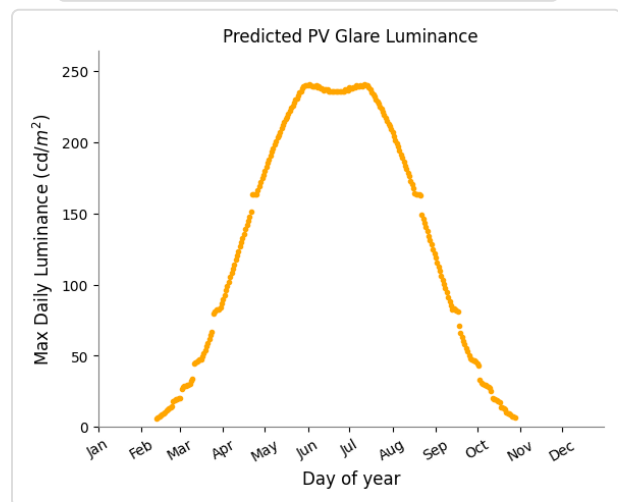
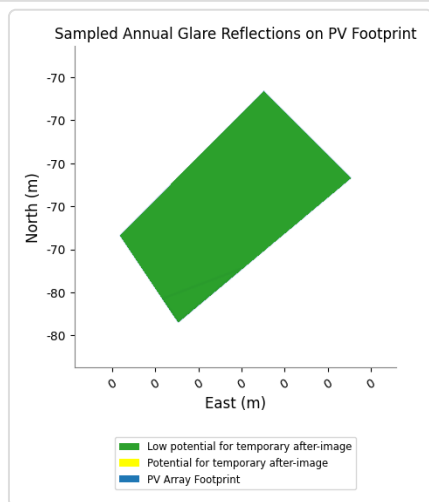
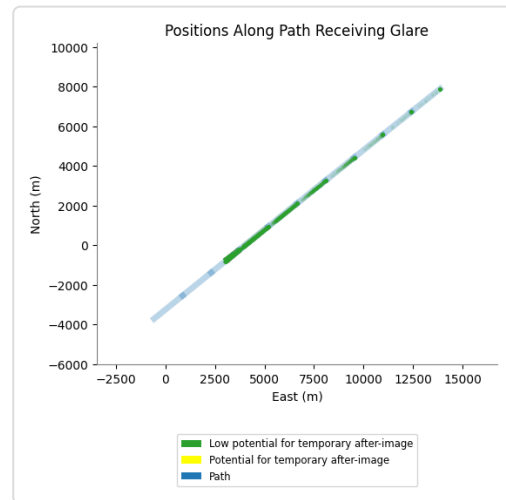
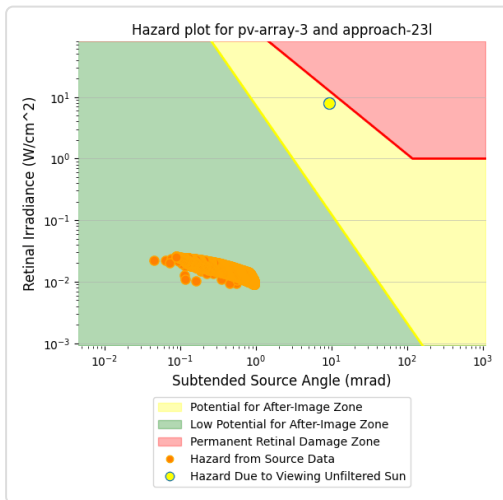
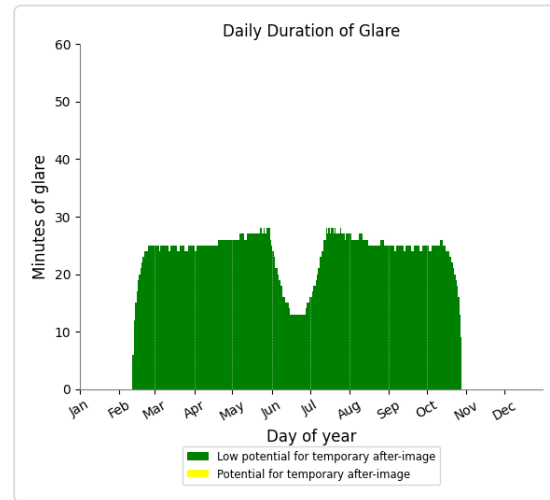
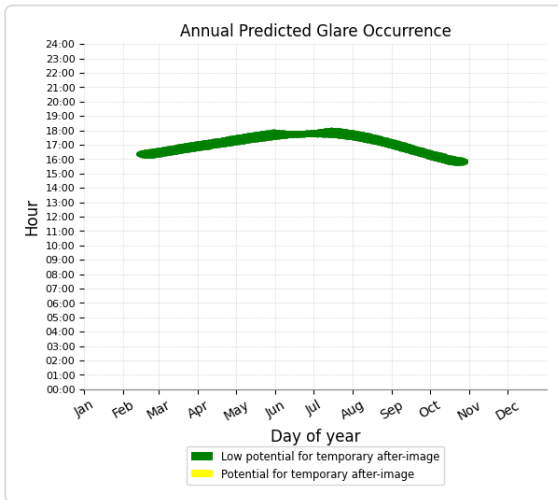
Green glare: 8,138 min.



PV array 3 and Route: Approach_23L

Yellow glare: none

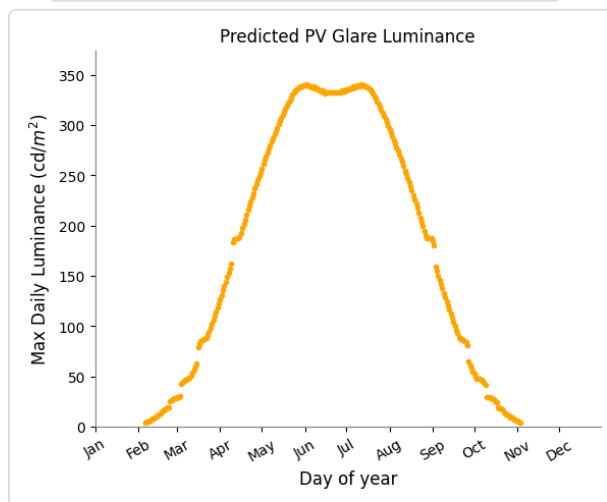
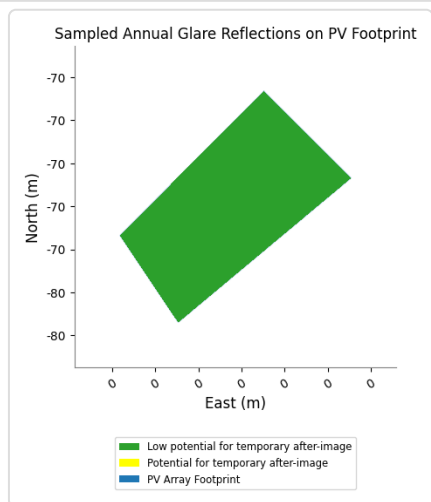
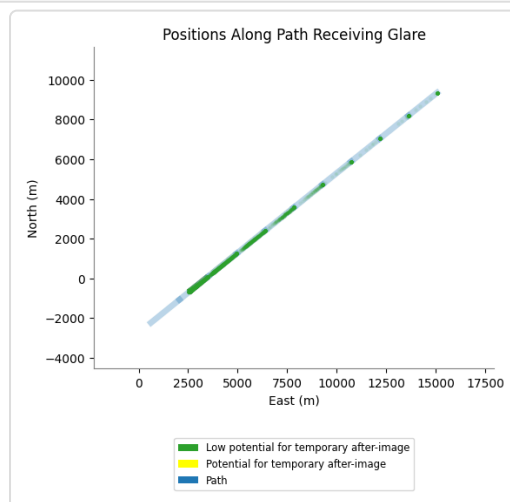
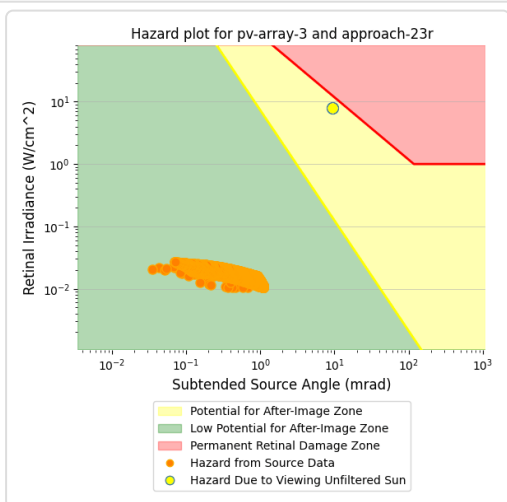
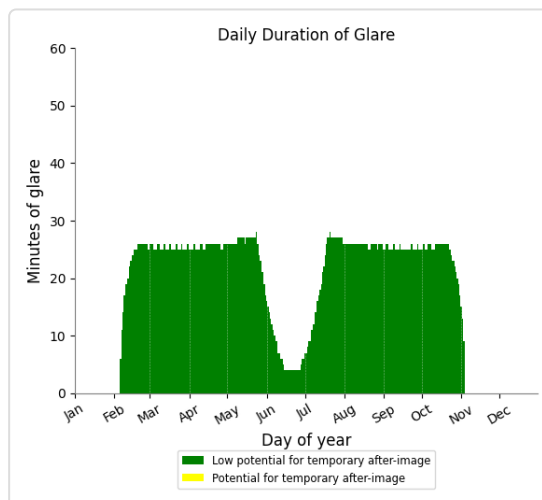
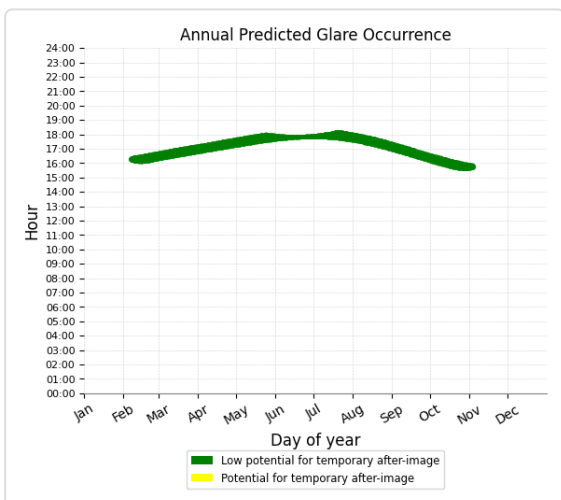
Green glare: 6,123 min.



PV array 3 and Route: Approach_23R

Yellow glare: none

Green glare: 6,033 min.



PV array 3 and Route: 1000Ft-GA_5R23L_05R-L_23L-R

No glare found

PV array 3 and Route: Approach_05L

No glare found

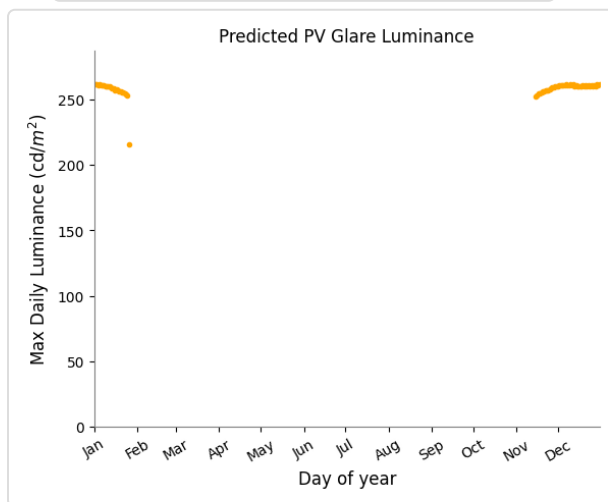
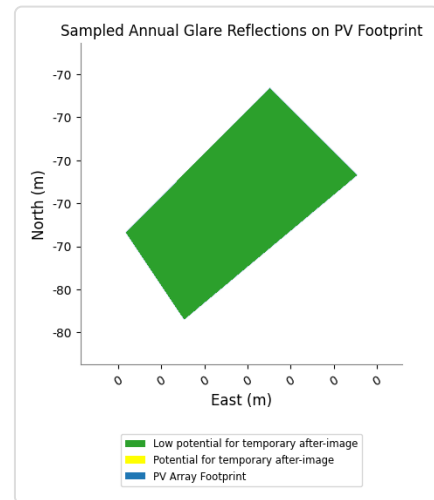
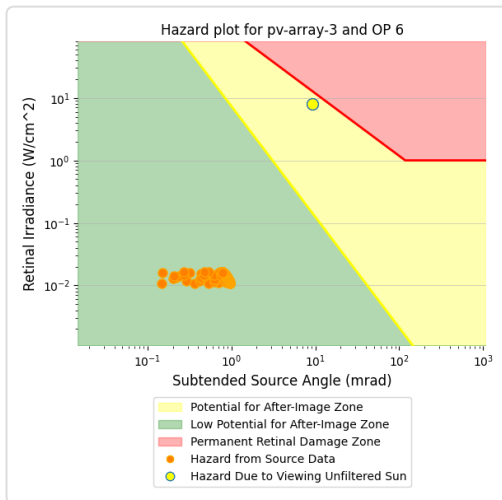
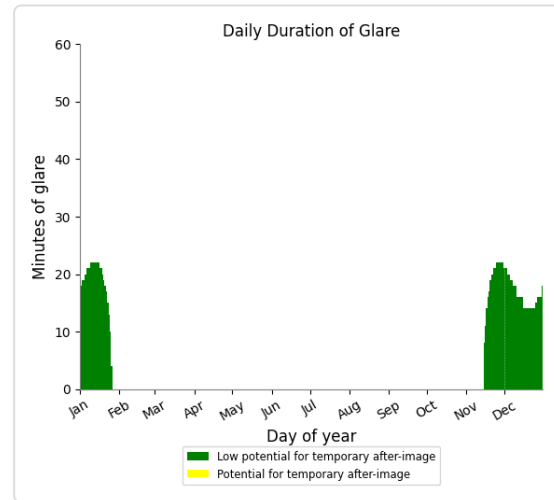
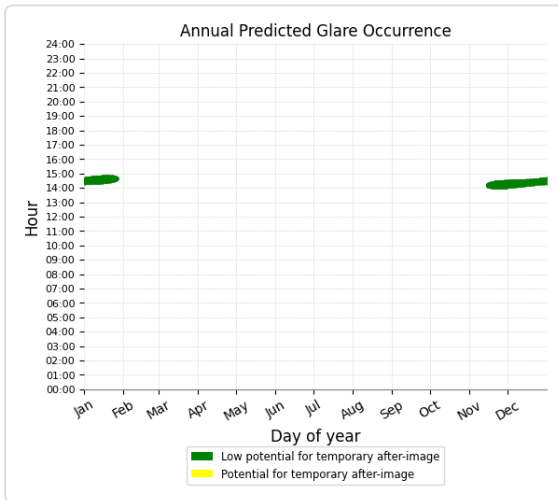
PV array 3 and Route: Approach_05R

No glare found

PV array 3 and OP 6

Yellow glare: none

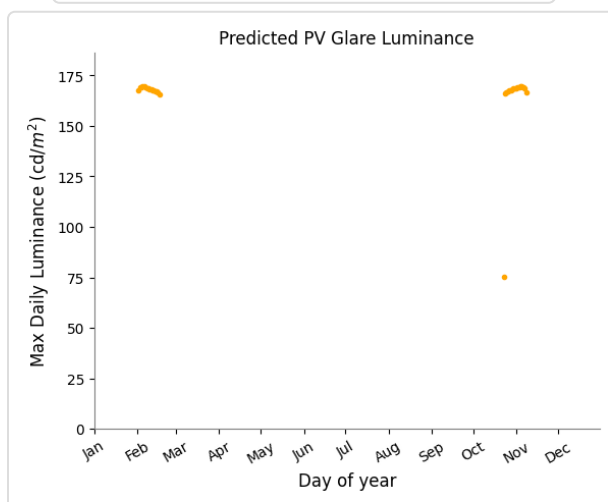
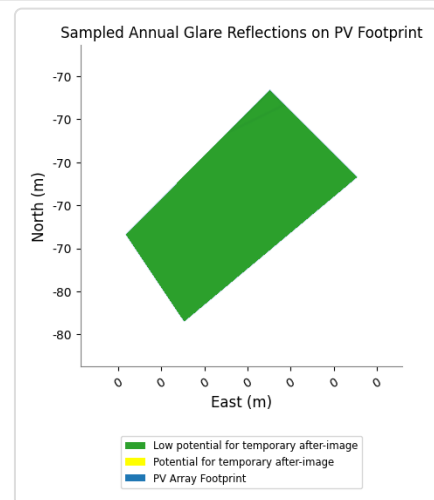
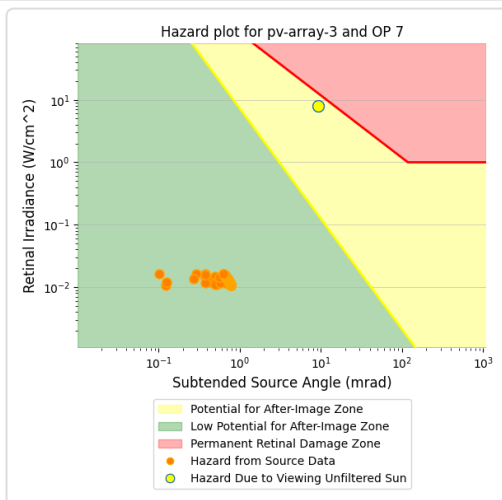
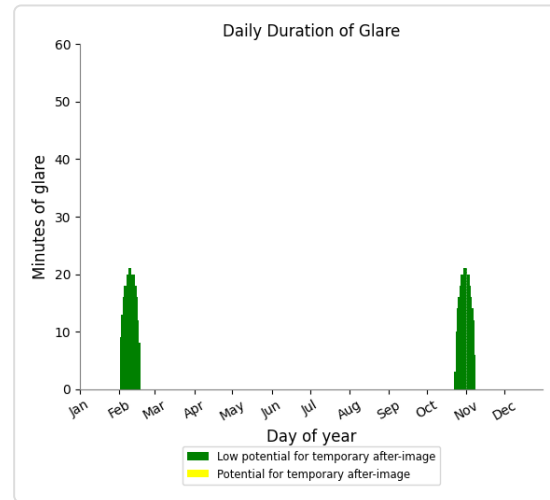
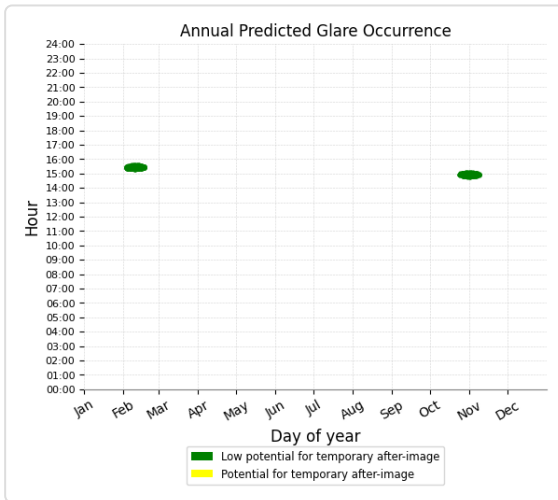
Green glare: 1,300 min.



PV array 3 and OP 7

Yellow glare: none

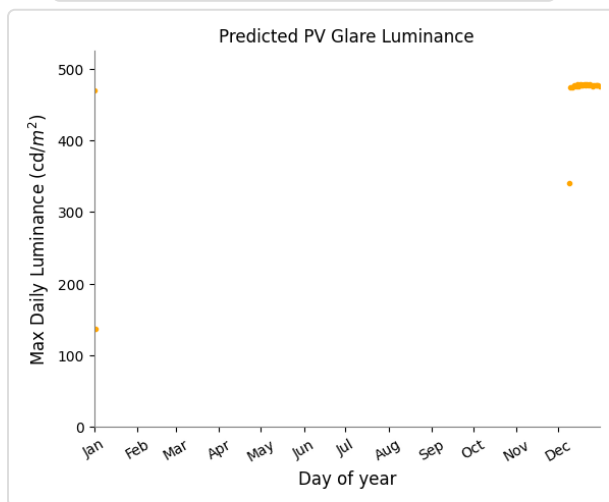
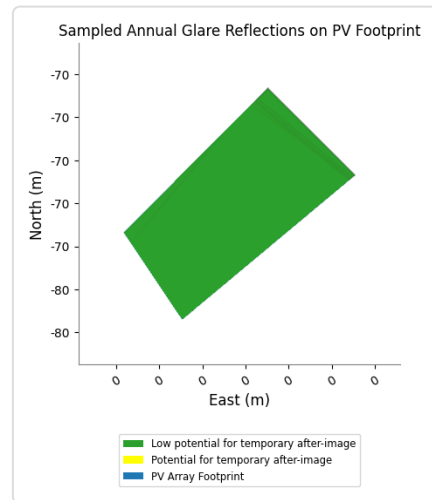
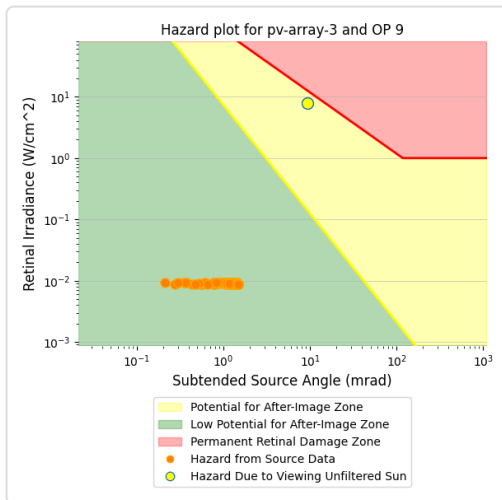
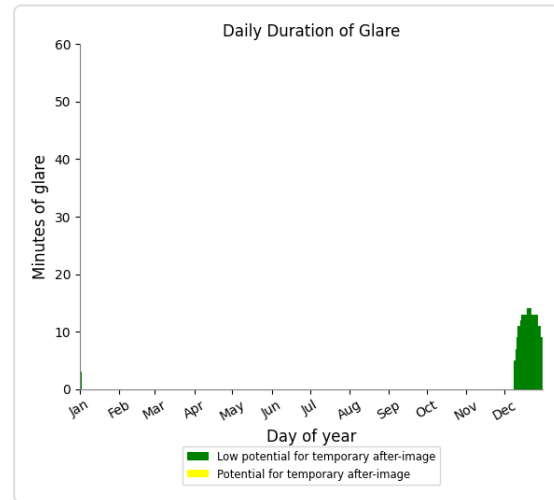
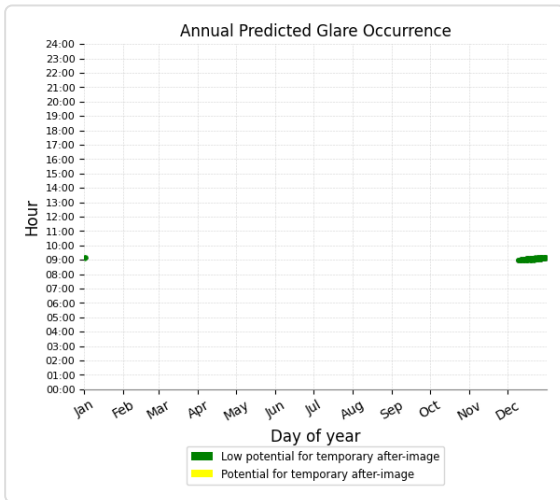
Green glare: 540 min.



PV array 3 and OP 9

Yellow glare: none

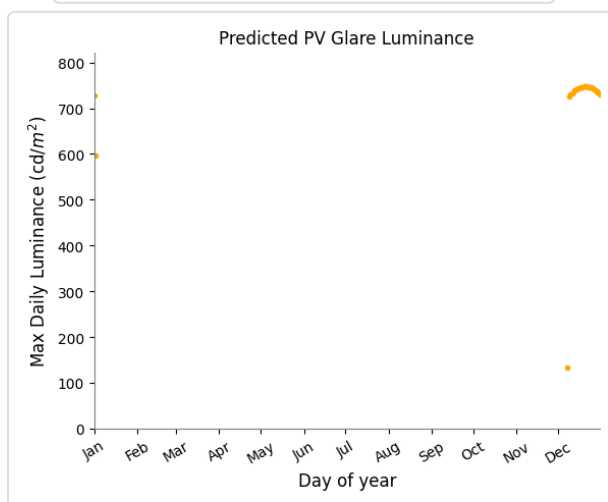
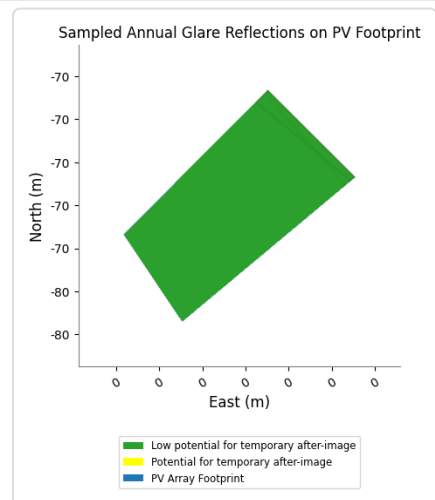
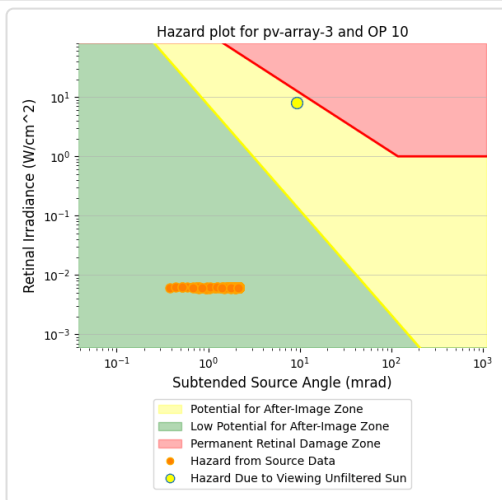
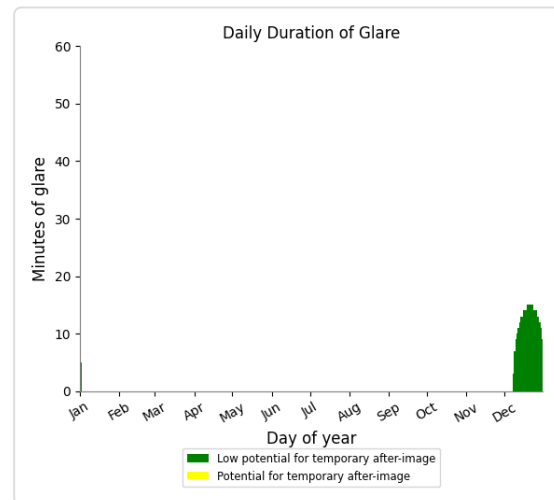
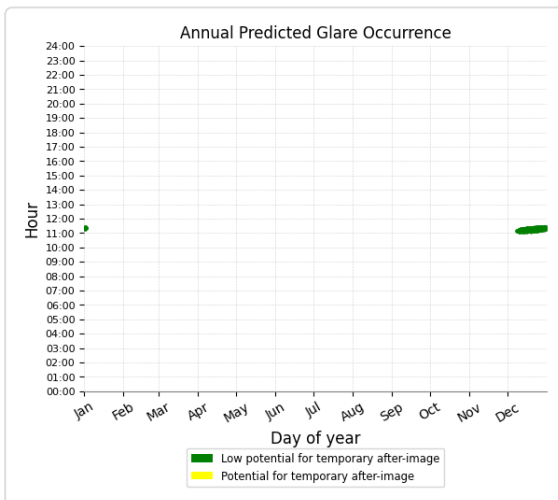
Green glare: 278 min.



PV array 3 and OP 10

Yellow glare: none

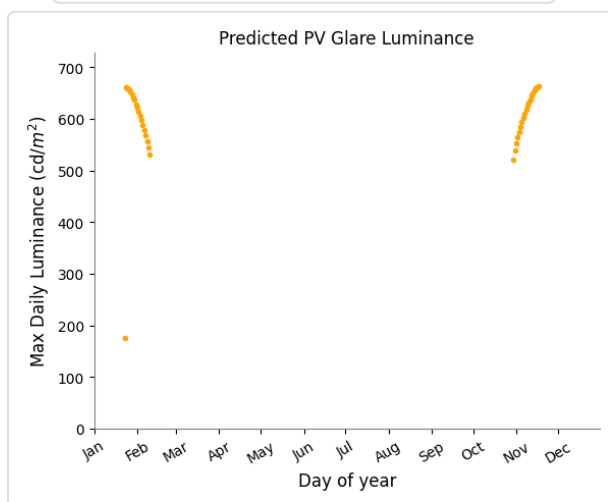
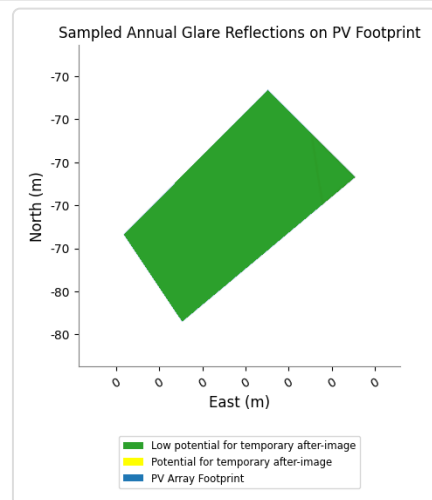
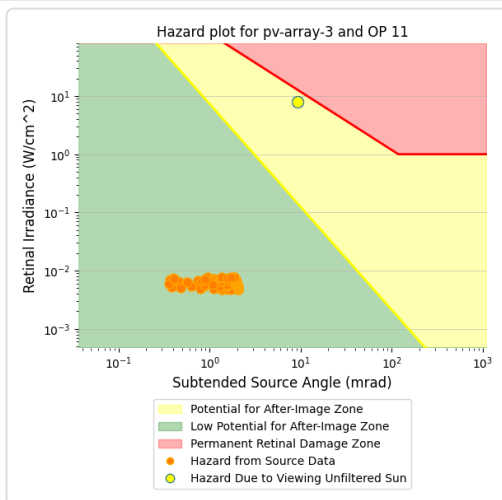
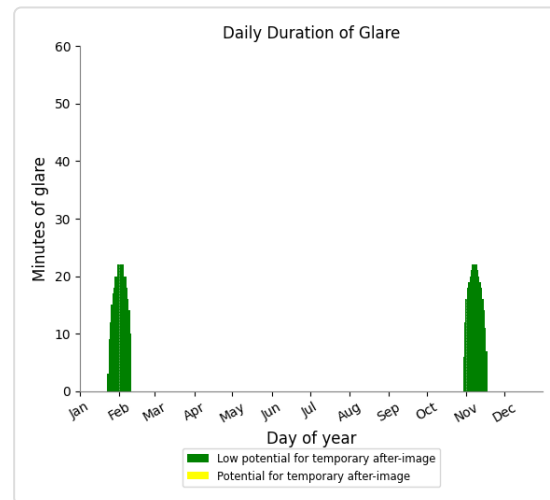
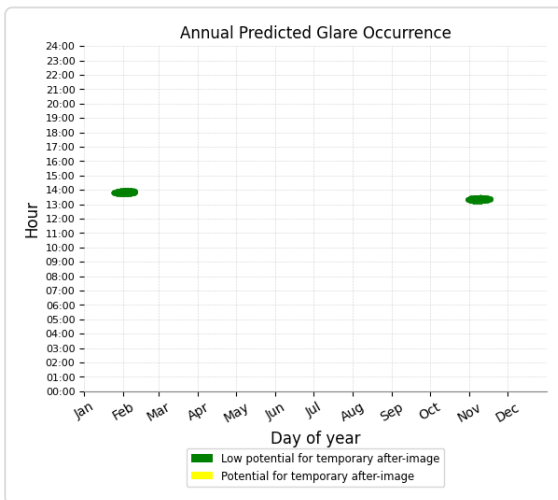
Green glare: 308 min.



PV array 3 and OP 11

Yellow glare: none

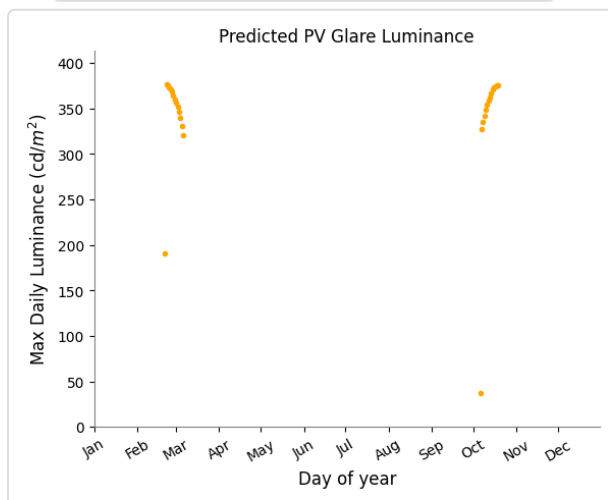
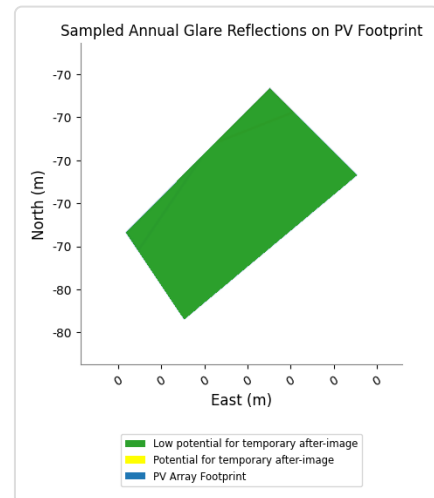
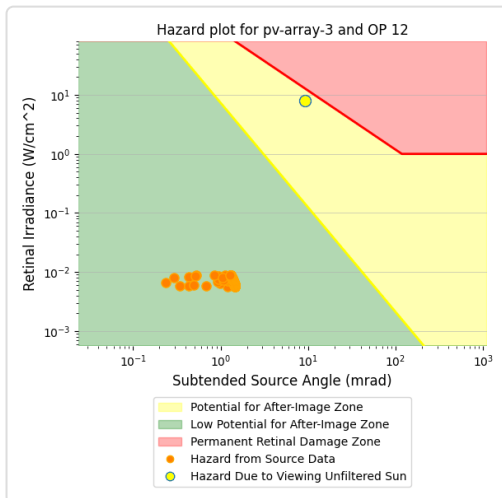
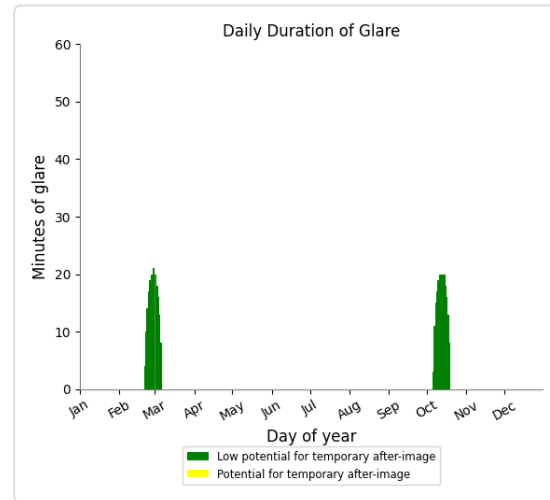
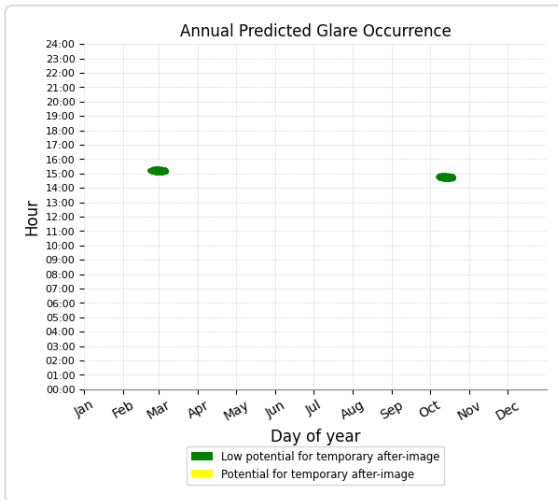
Green glare: 648 min.



PV array 3 and OP 12

Yellow glare: none

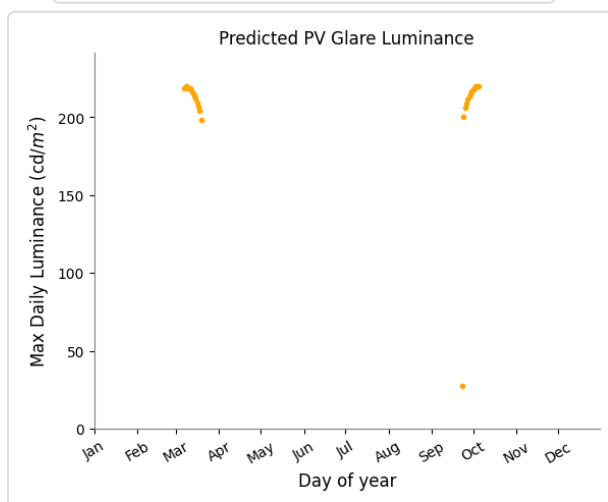
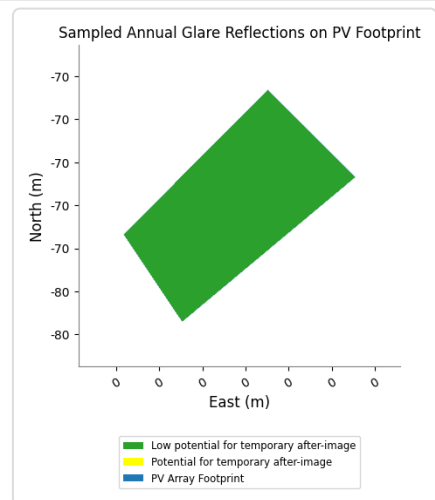
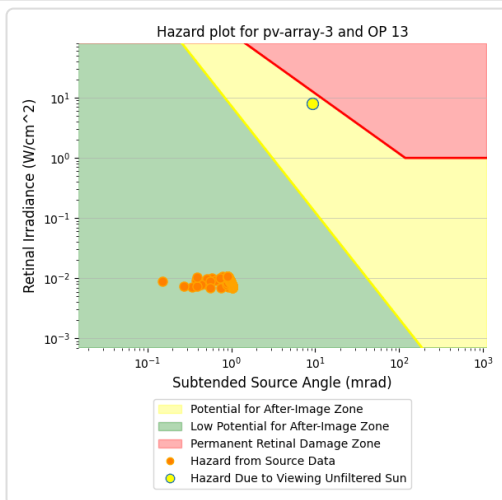
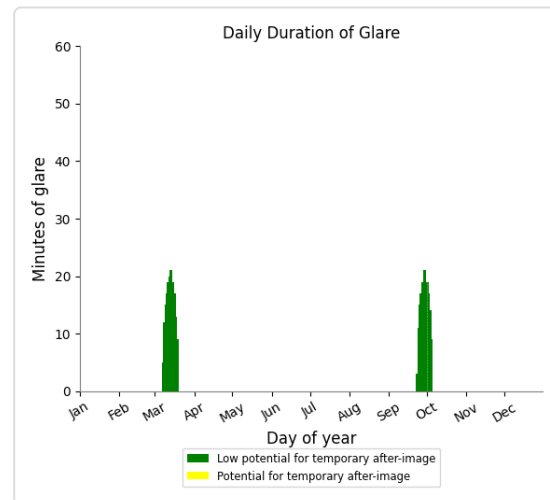
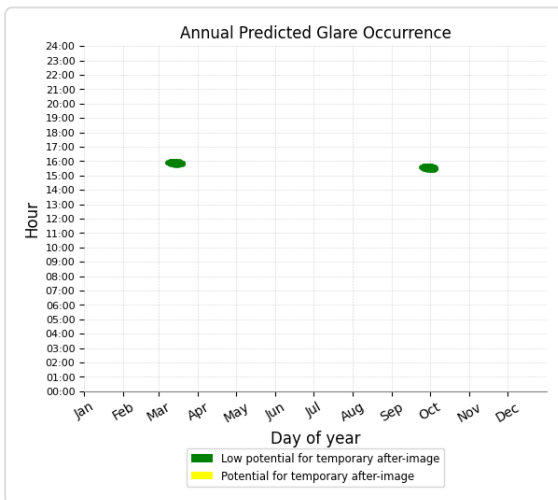
Green glare: 440 min.



PV array 3 and OP 13

Yellow glare: none

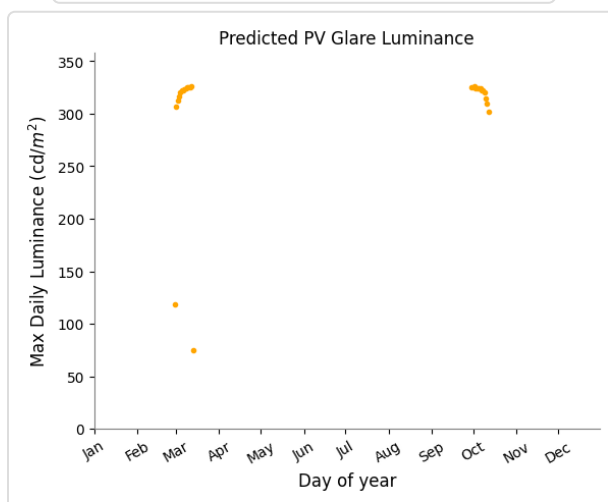
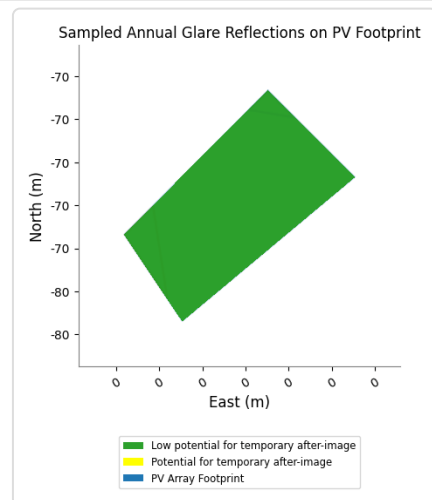
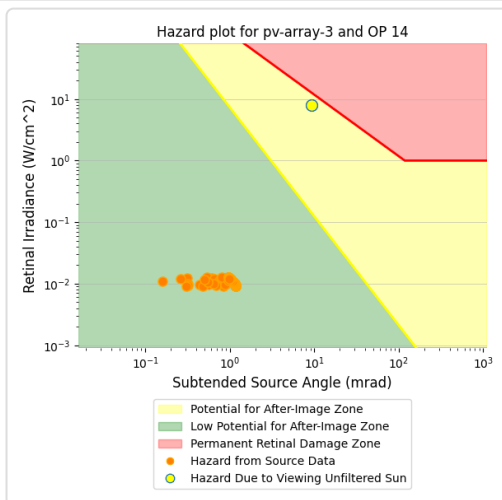
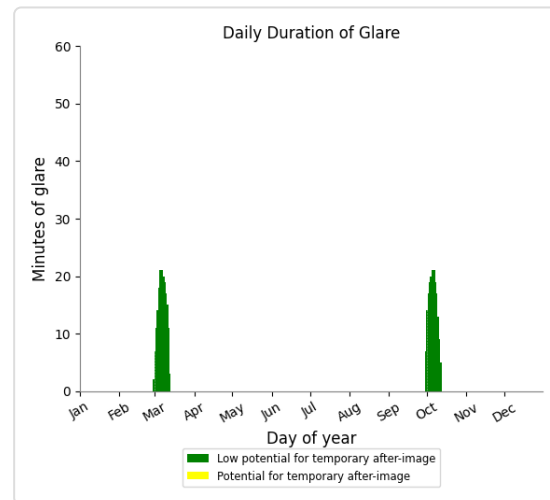
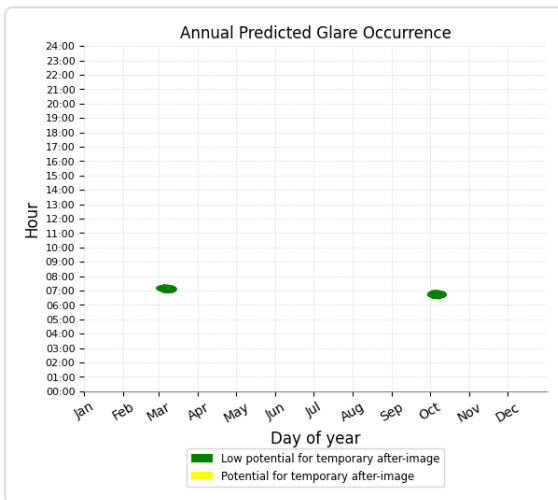
Green glare: 411 min.



PV array 3 and OP 14

Yellow glare: none

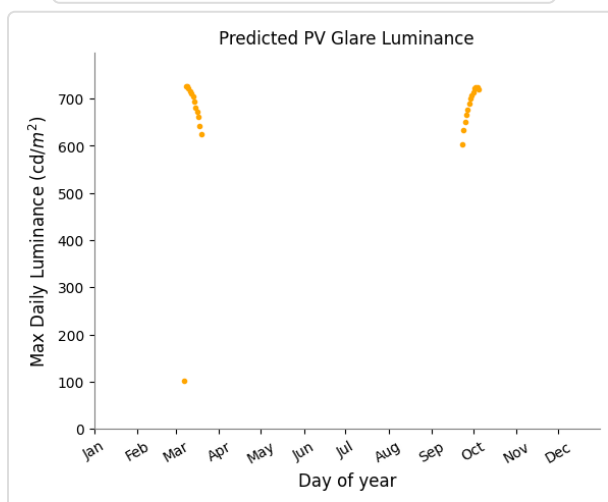
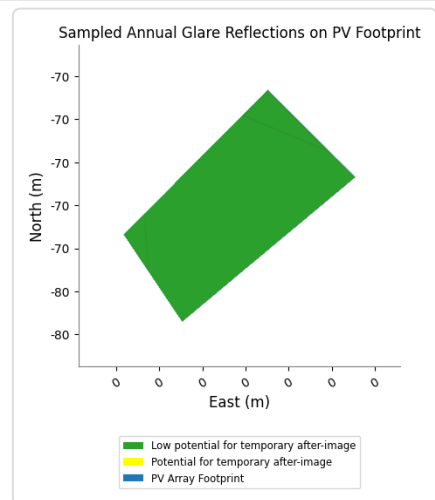
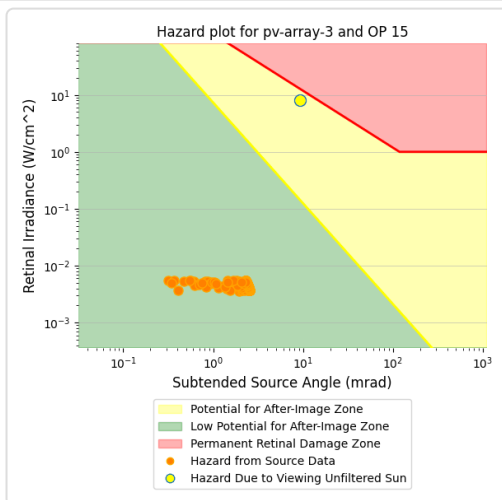
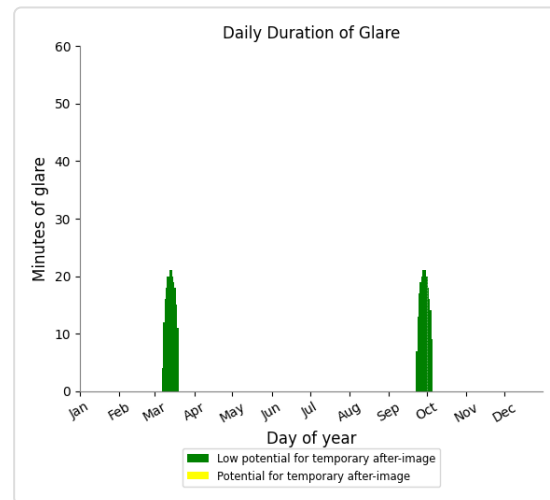
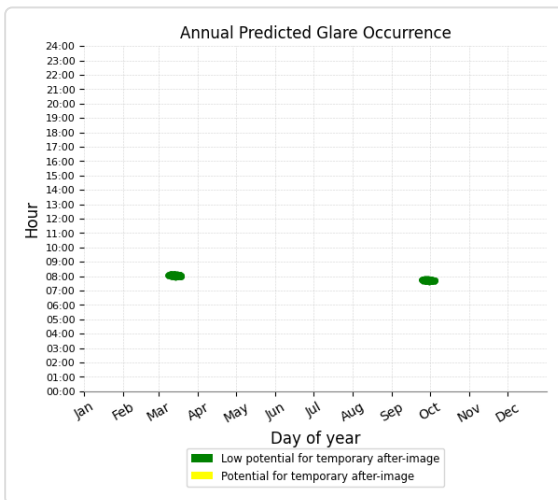
Green glare: 403 min.



PV array 3 and OP 15

Yellow glare: none

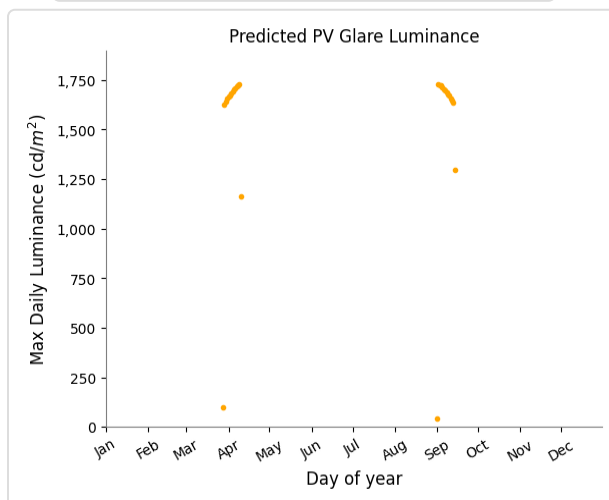
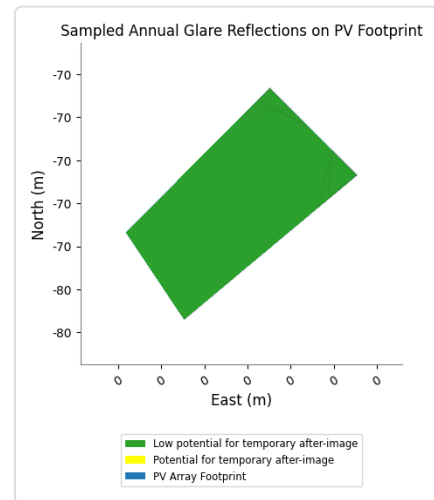
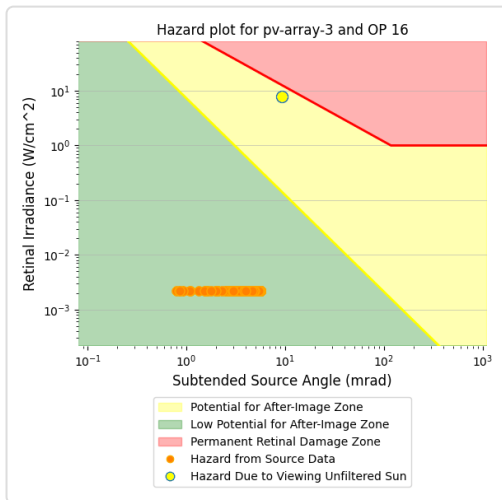
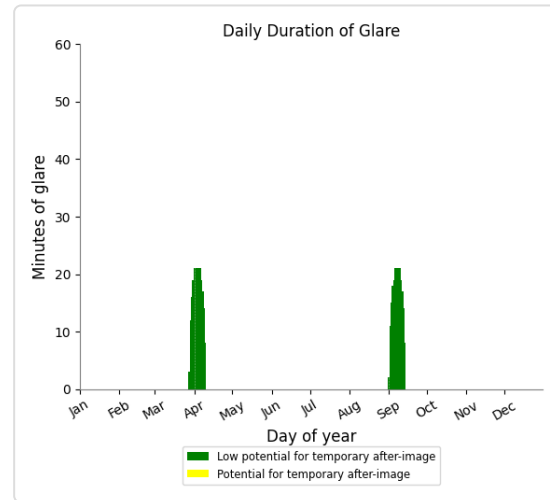
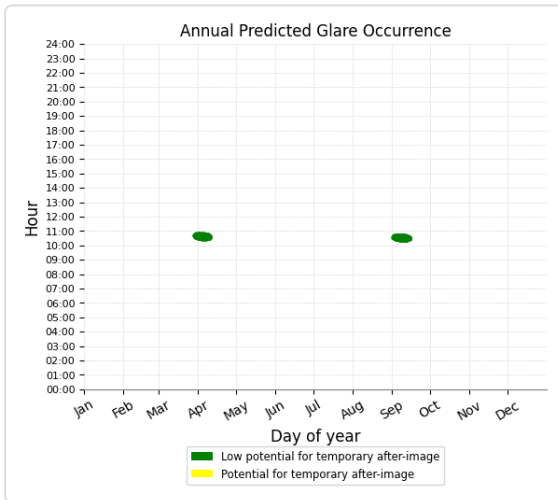
Green glare: 431 min.



PV array 3 and OP 16

Yellow glare: none

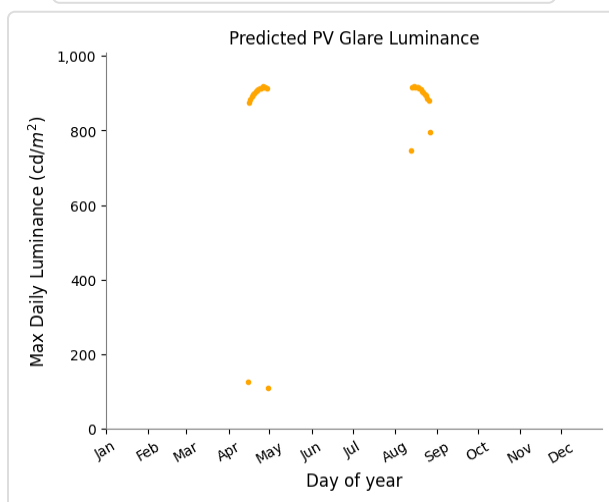
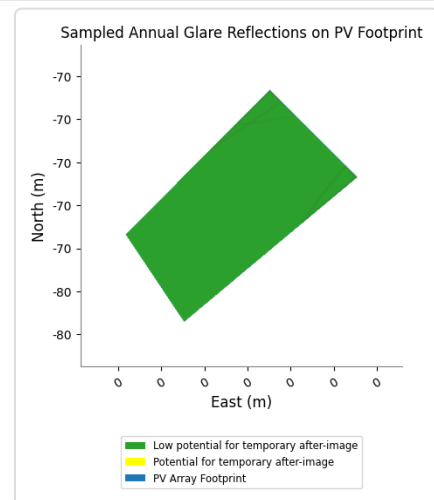
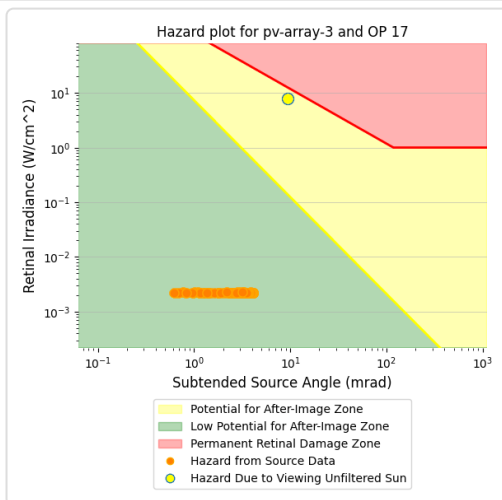
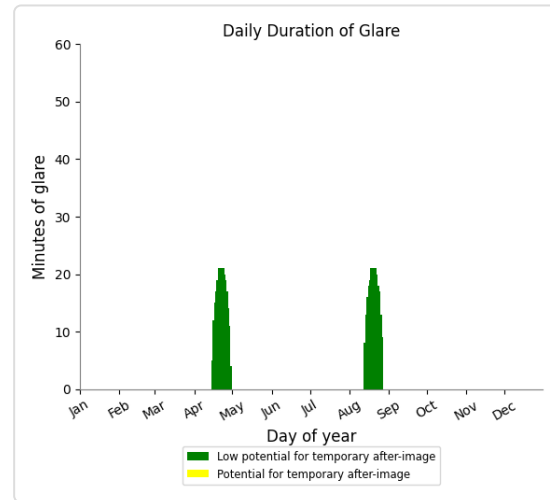
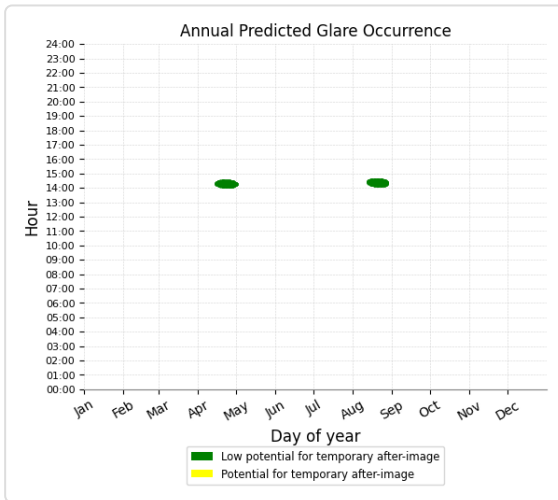
Green glare: 462 min.



PV array 3 and OP 17

Yellow glare: none

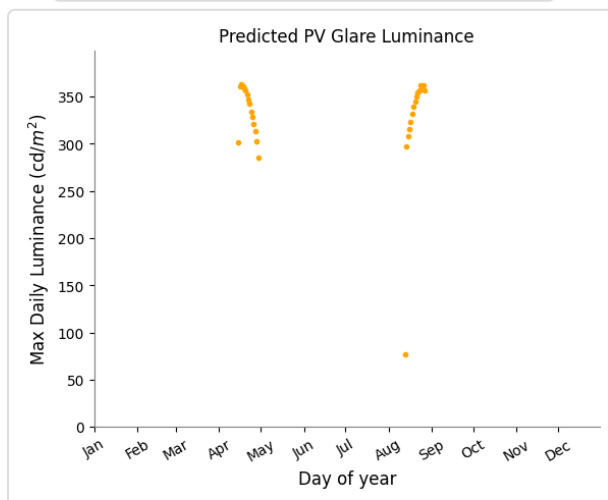
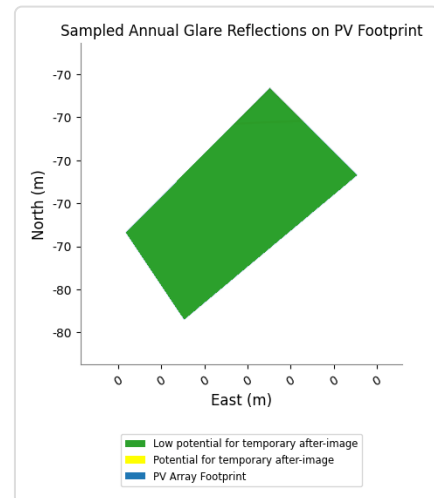
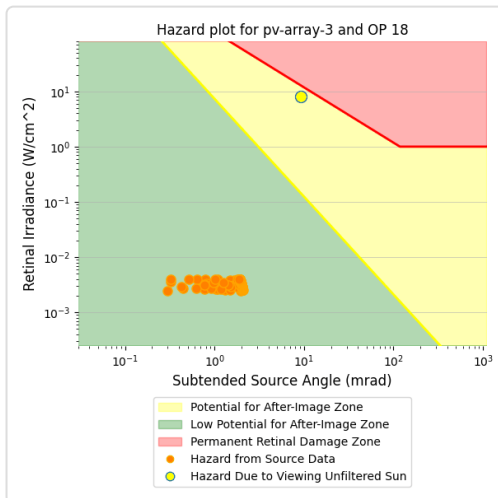
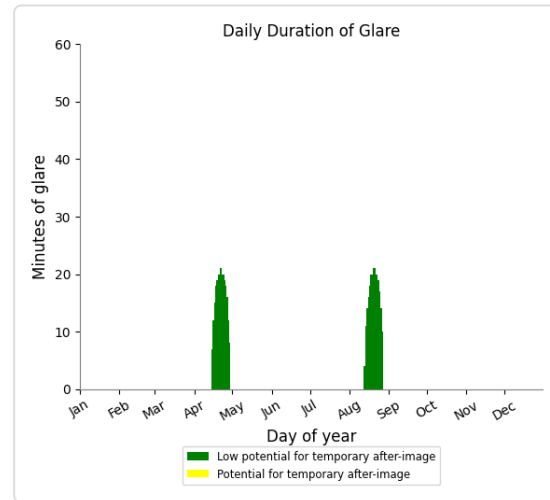
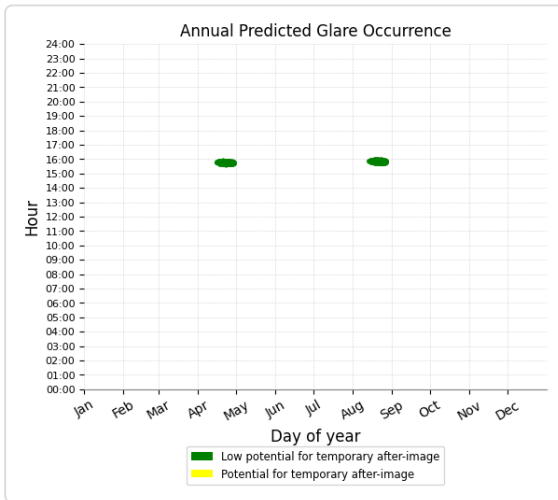
Green glare: 514 min.



PV array 3 and OP 18

Yellow glare: none

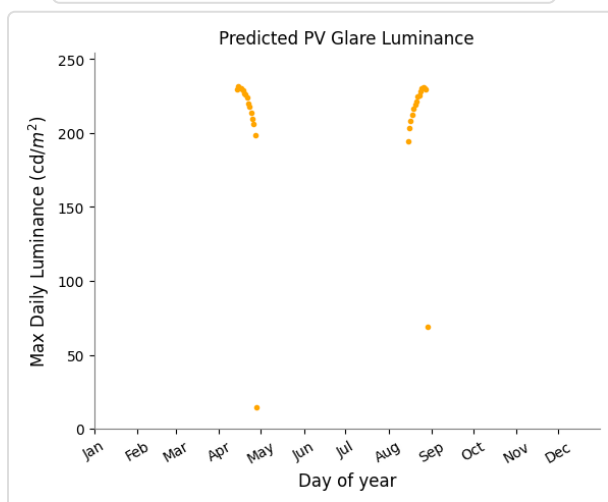
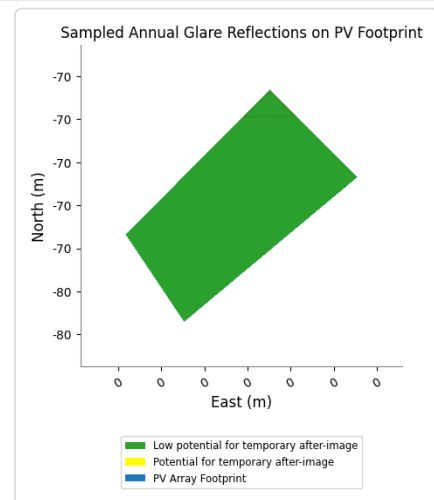
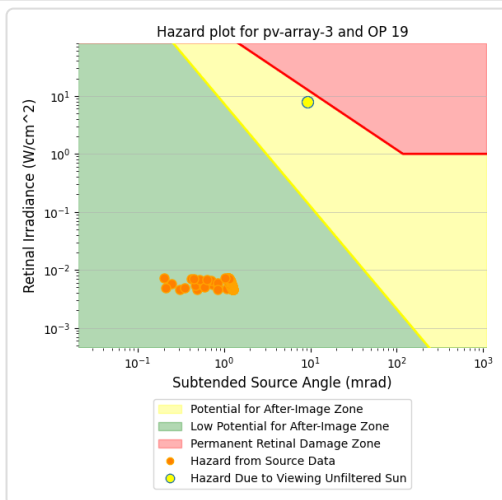
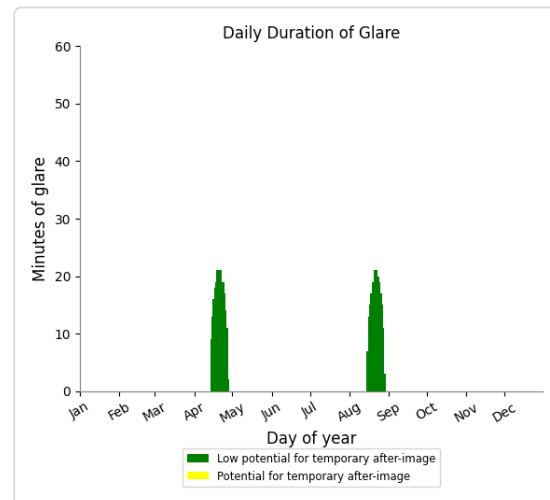
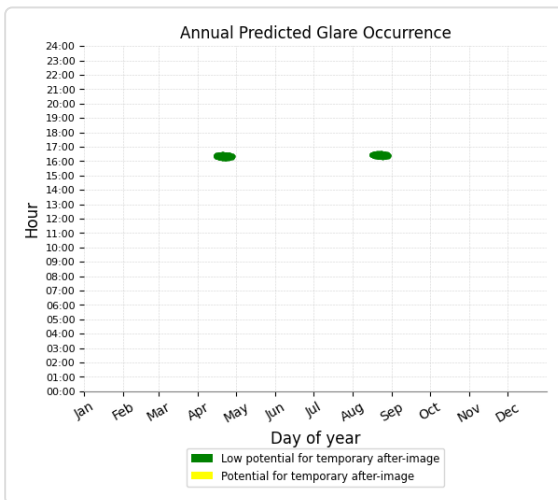
Green glare: 490 min.



PV array 3 and OP 19

Yellow glare: none

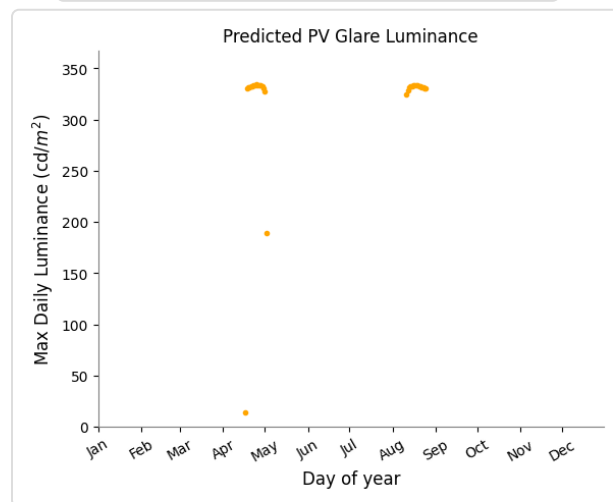
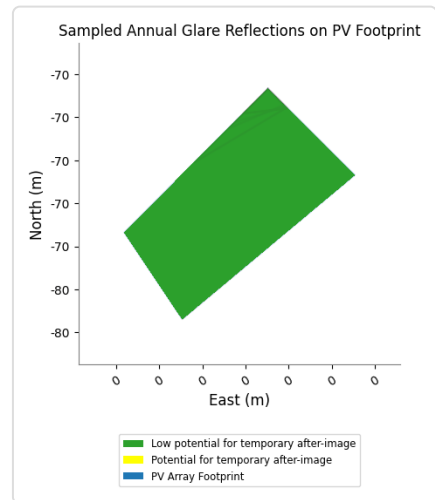
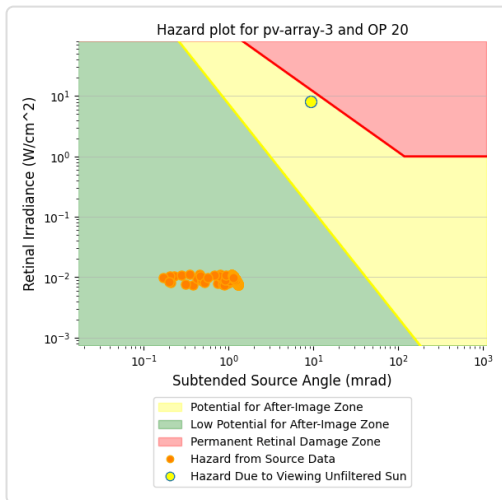
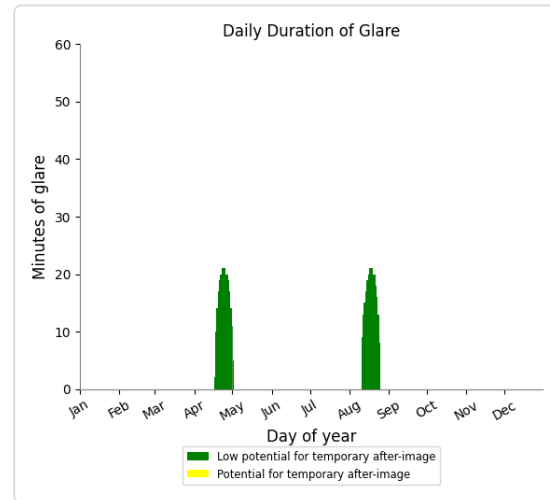
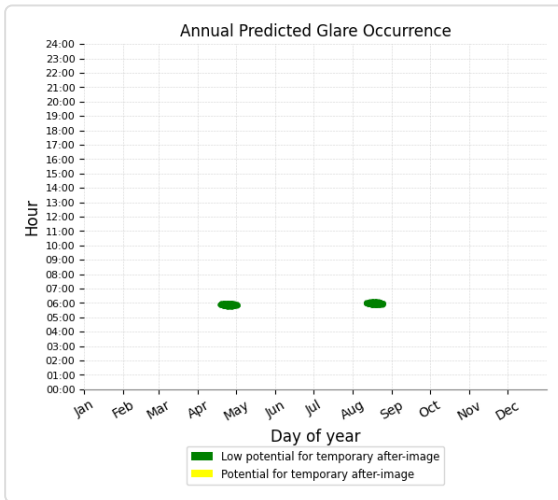
Green glare: 479 min.



PV array 3 and OP 20

Yellow glare: none

Green glare: 502 min.



PV array 3 and 1-ATCT

No glare found

PV array 3 and OP 2

No glare found

PV array 3 and OP 3

No glare found

PV array 3 and OP 4

No glare found

PV array 3 and OP 5

No glare found

PV array 3 and OP 8

No glare found

PV array 3 and OP 21

No glare found

PV array 3 and OP 22

No glare found

PV array 3 and OP 23

No glare found

PV array 3 and OP 24

No glare found

PV array 3 and OP 25

No glare found

PV array 3 and OP 26

No glare found

PV array 3 and OP 27

No glare found

PV array 3 and OP 28

No glare found

PV array 3 and OP 29

No glare found

PV array 3 and OP 30

No glare found

PV array 3 and OP 31

No glare found

PV array 3 and OP 32

No glare found

PV array 3 and OP 33

No glare found

PV array 3 and OP 34

No glare found

PV array 3 and OP 35

No glare found

PV array 3 and OP 36

No glare found

PV array 3 and OP 37

No glare found

PV array 3 and OP 38

No glare found

PV array 3 and OP 39

No glare found

PV array 3 and OP 40

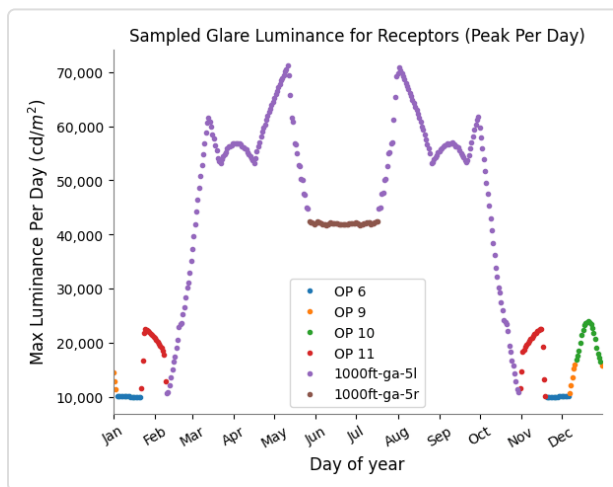
No glare found

PV: PV array 4 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
1000Ft- GA_5L23R_05L- L_23R-R	3,205	53.4	0	0.0	13,360
1000Ft- GA_5L23R_05L- R_23R-L	10,825	180.4	0	0.0	71,150
1000Ft- GA_5R23L_05R- R_23L-L	7,651	127.5	0	0.0	53,319
1500Ft- CA_5L23R_05L- L_23R-R	5,151	85.8	0	0.0	13,274
1500Ft- CA_5L23R_05L- R_23R-L	8,251	137.5	0	0.0	13,274
Approach_23L	6,213	103.5	0	0.0	9,363
Approach_23R	6,230	103.8	0	0.0	13,289
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
Approach_05L	0	0.0	0	0.0	0
Approach_05R	0	0.0	0	0.0	0
OP 6	1,591	26.5	0	0.0	10,198
OP 7	661	11.0	0	0.0	6,729
OP 9	613	10.2	0	0.0	16,641
OP 10	569	9.5	0	0.0	23,915
OP 11	1,027	17.1	0	0.0	22,610
OP 12	604	10.1	0	0.0	13,900
OP 13	514	8.6	0	0.0	8,512
OP 14	509	8.5	0	0.0	11,708
OP 15	704	11.7	0	0.0	22,783
OP 16	1,130	18.8	0	0.0	38,501
OP 17	1,029	17.1	0	0.0	25,812
OP 18	719	12.0	0	0.0	12,190
OP 19	616	10.3	0	0.0	8,684
OP 20	674	11.2	0	0.0	12,017
OP 21	335	5.6	0	0.0	6,823
1-ATCT	0	0.0	0	0.0	0
OP 2	0	0.0	0	0.0	0
OP 3	0	0.0	0	0.0	0

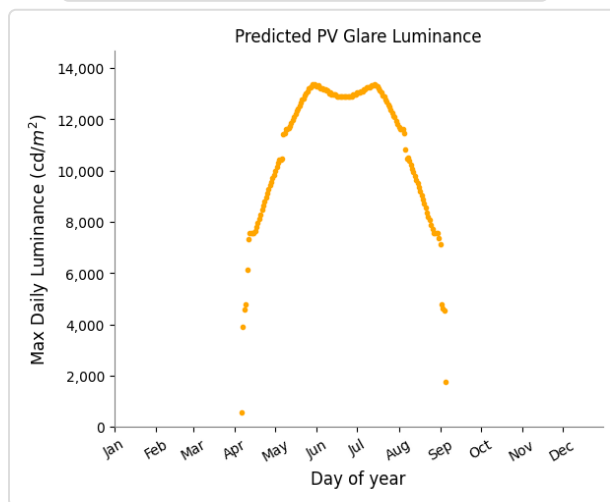
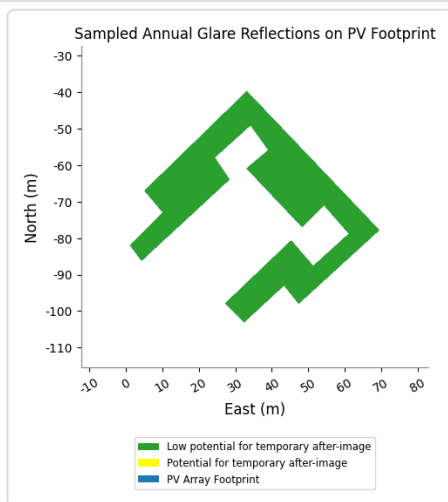
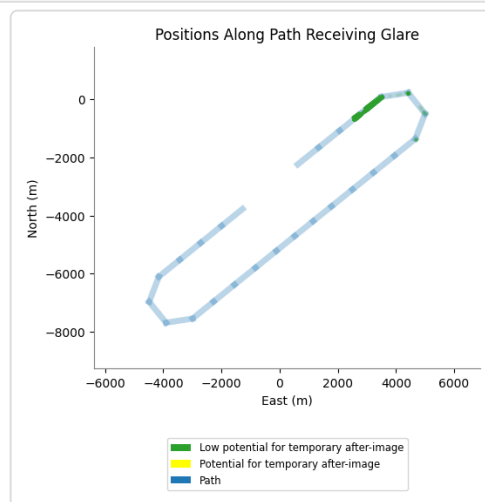
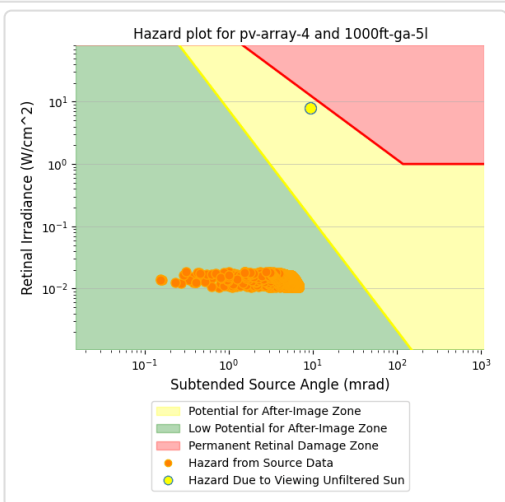
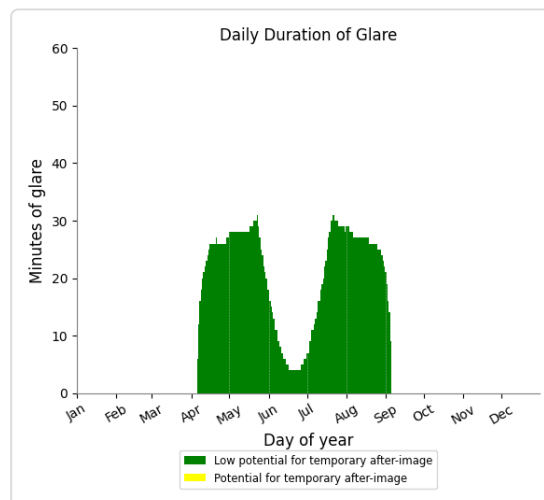
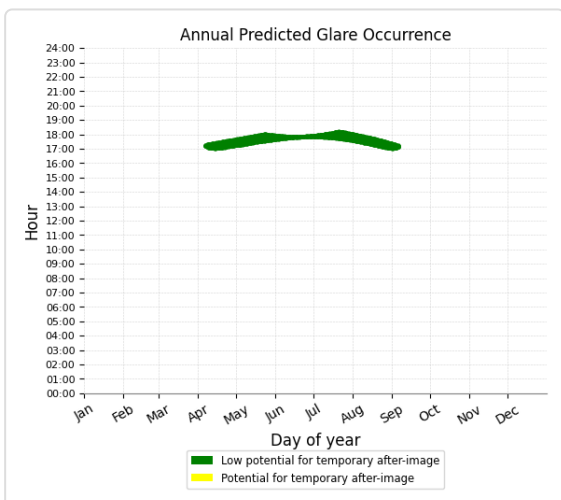
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 4	0	0.0	0	0.0	0
OP 5	0	0.0	0	0.0	0
OP 8	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 24	0	0.0	0	0.0	0
OP 25	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	0	0.0	0
OP 29	0	0.0	0	0.0	0
OP 30	0	0.0	0	0.0	0
OP 31	0	0.0	0	0.0	0
OP 32	0	0.0	0	0.0	0
OP 33	0	0.0	0	0.0	0
OP 34	0	0.0	0	0.0	0
OP 35	0	0.0	0	0.0	0
OP 36	0	0.0	0	0.0	0
OP 37	0	0.0	0	0.0	0
OP 38	0	0.0	0	0.0	0
OP 39	0	0.0	0	0.0	0
OP 40	0	0.0	0	0.0	0



PV array 4 and Route: 1000ft-GA_5L23R_05L-L_23R-R

Yellow glare: none

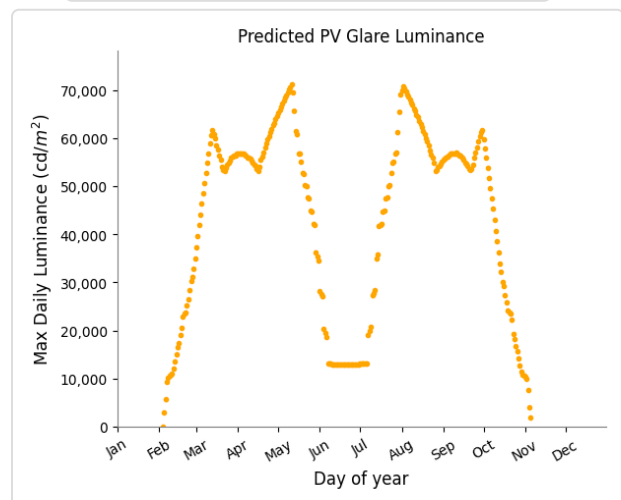
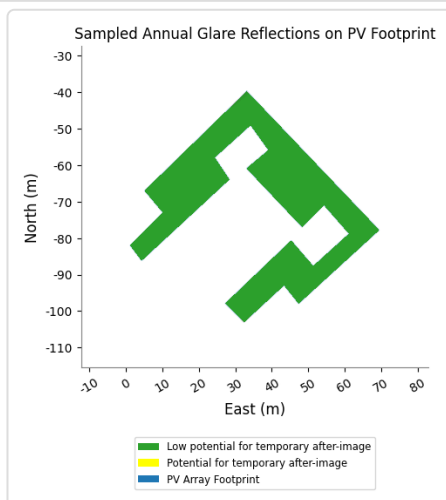
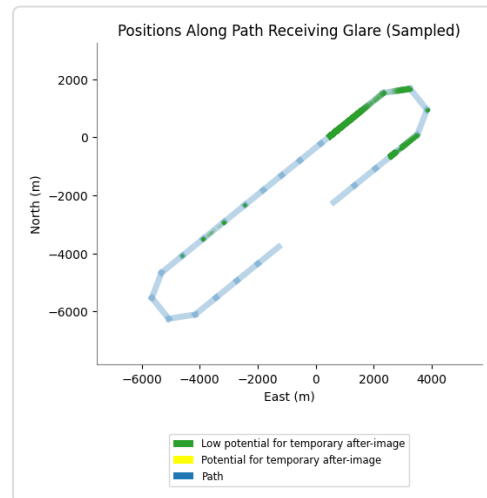
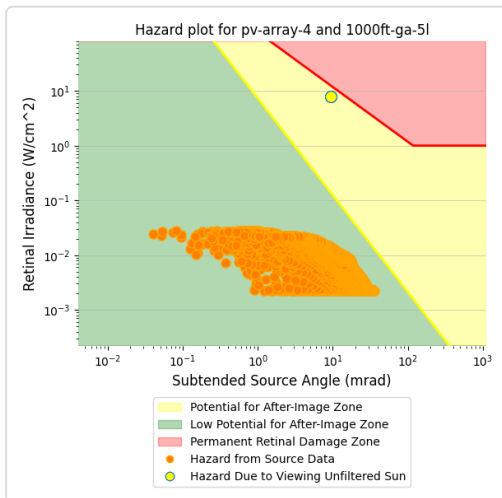
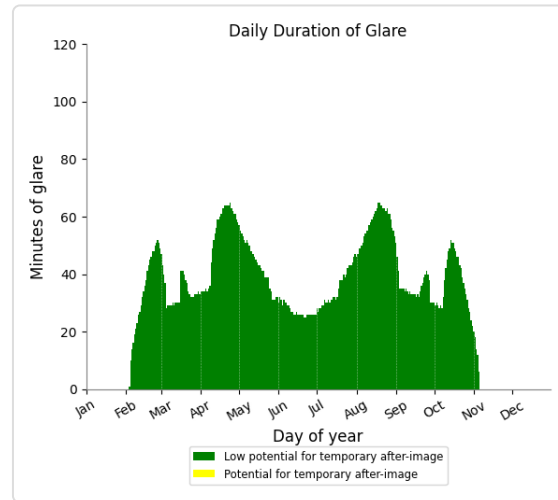
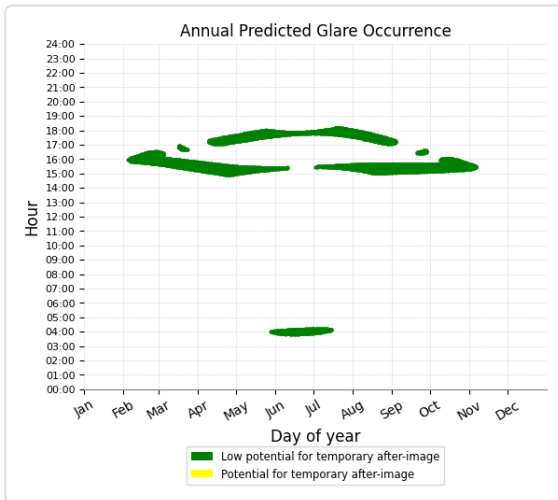
Green glare: 3,205 min.



PV array 4 and Route: 1000Ft-GA_5L23R_05L-R_23R-L

Yellow glare: none

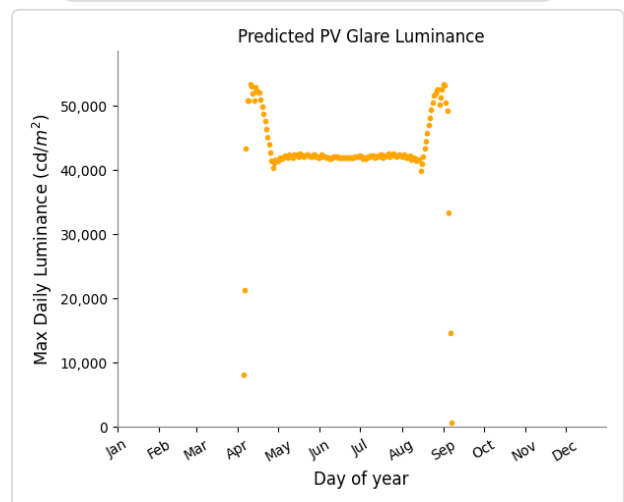
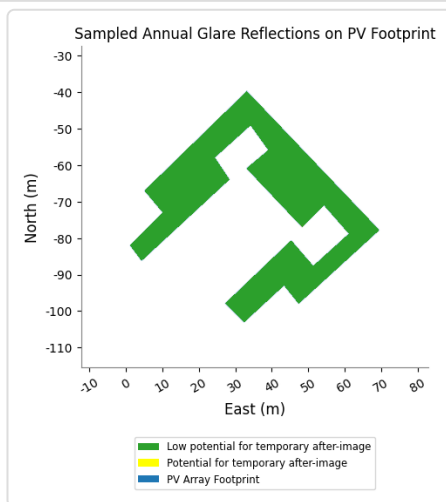
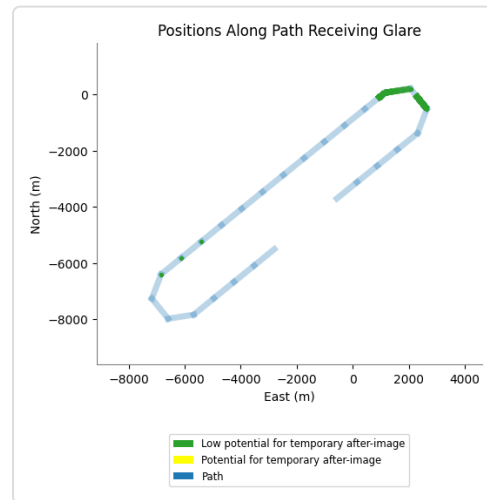
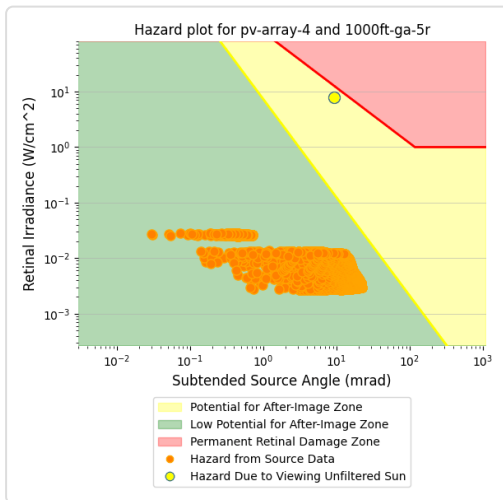
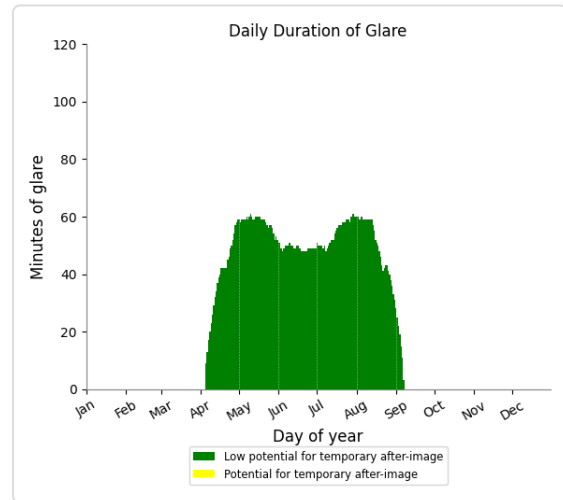
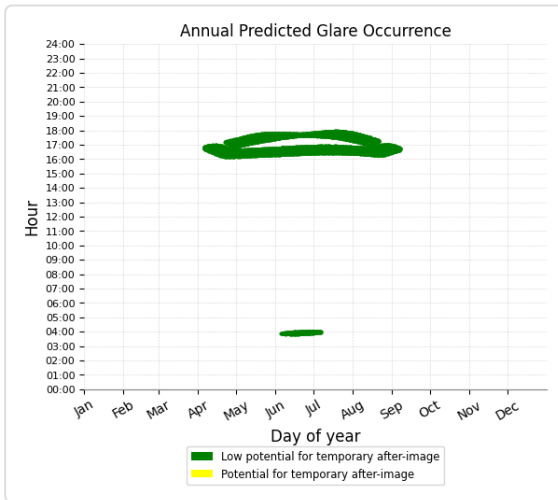
Green glare: 10,825 min.



PV array 4 and Route: 1000Ft-GA_5R23L_05R-R_23L-L

Yellow glare: none

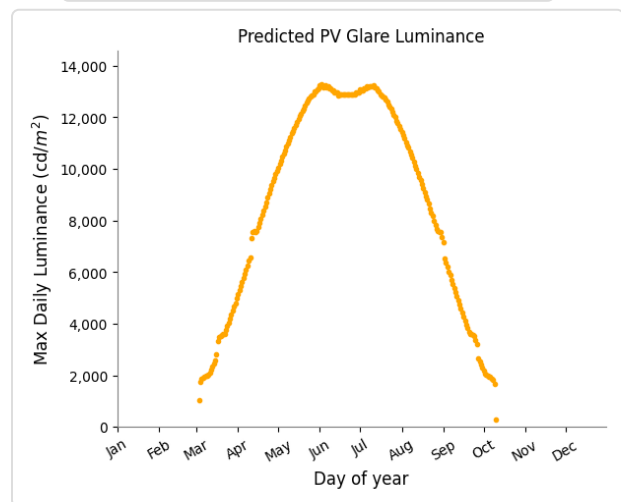
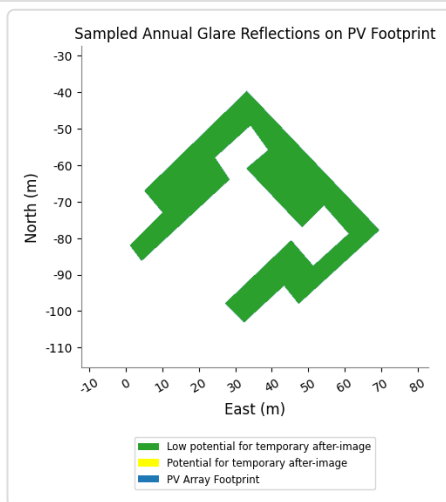
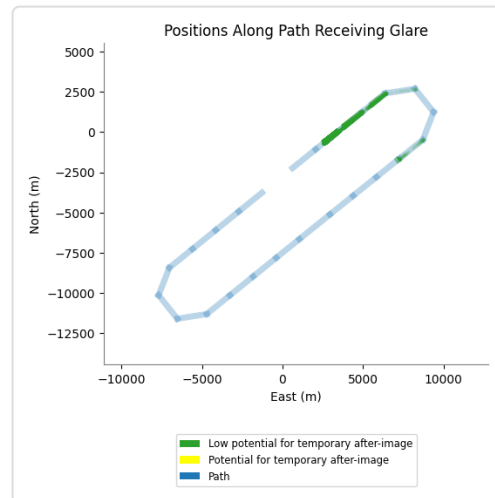
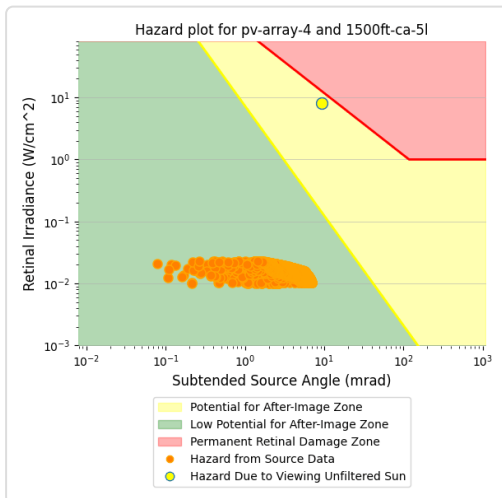
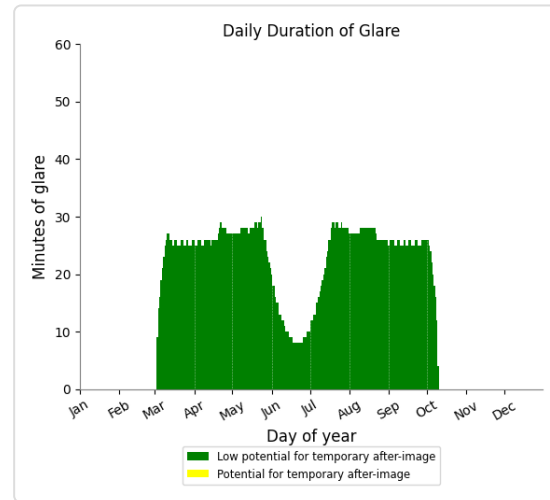
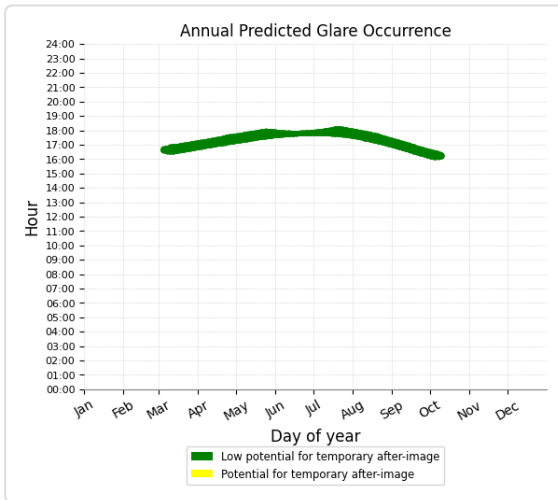
Green glare: 7,651 min.



PV array 4 and Route: 1500Ft-CA_5L23R_05L-L_23R-R

Yellow glare: none

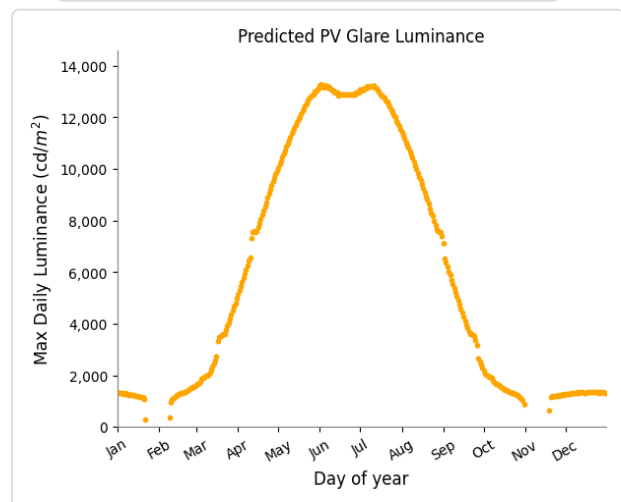
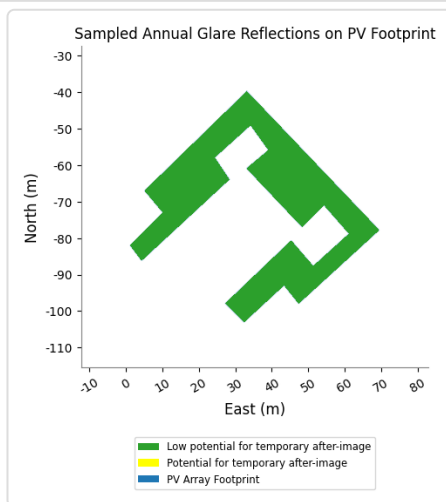
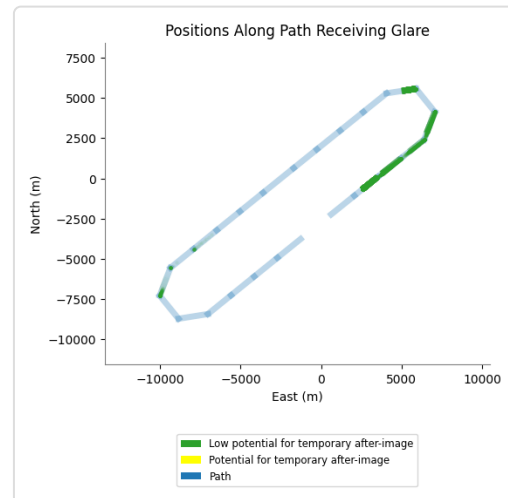
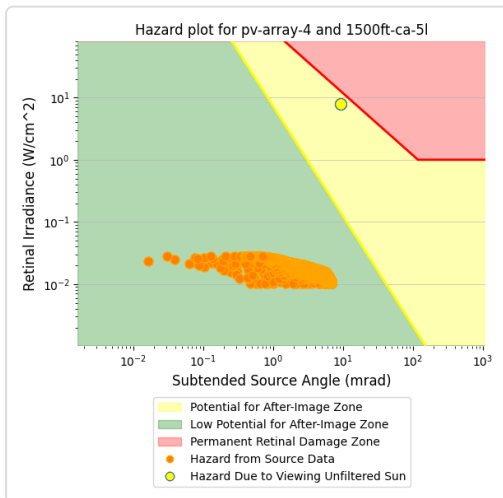
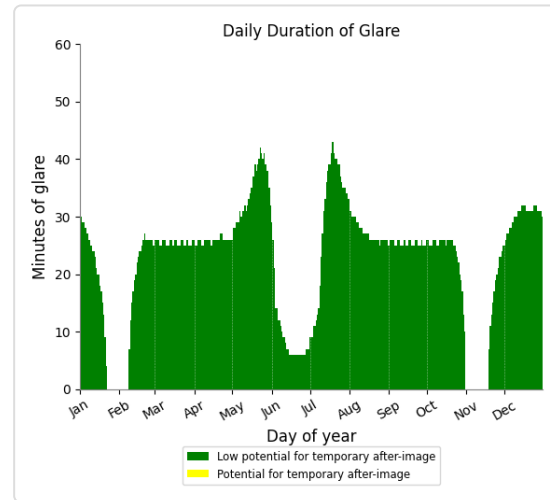
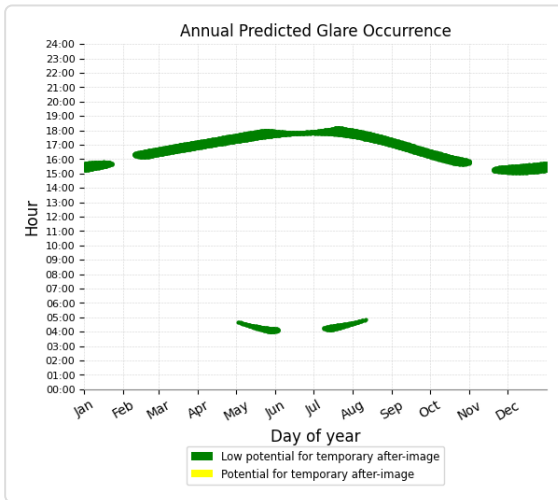
Green glare: 5,151 min.



PV array 4 and Route: 1500Ft-CA_5L23R_05L-R_23R-L

Yellow glare: none

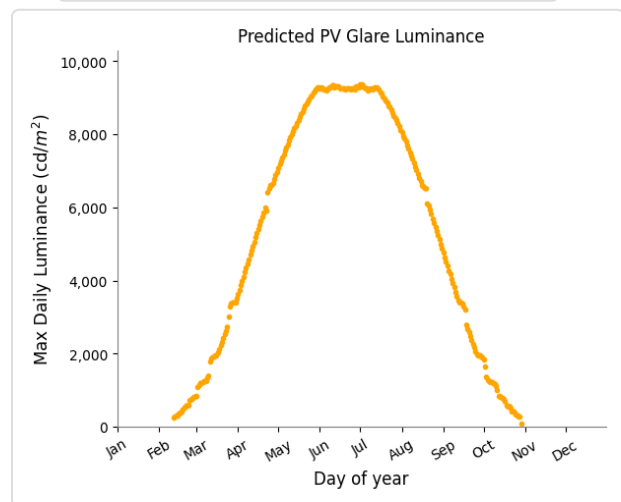
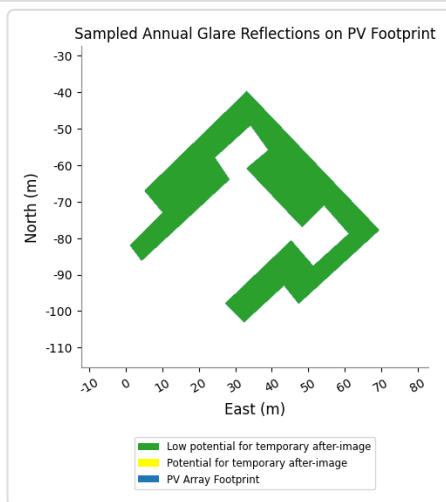
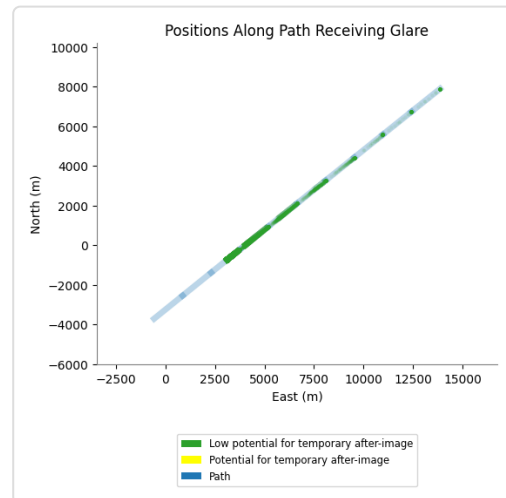
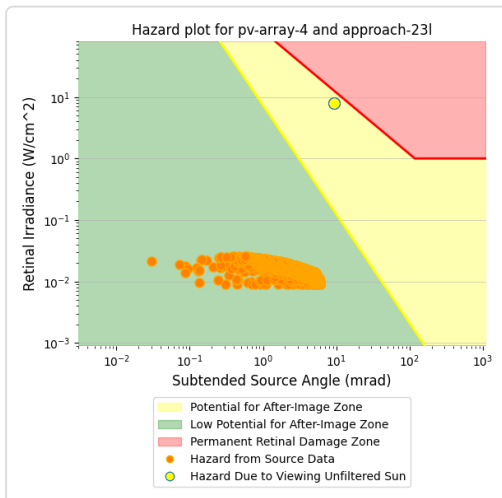
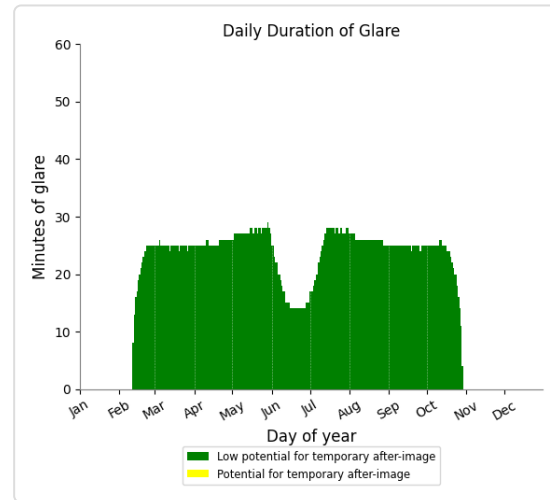
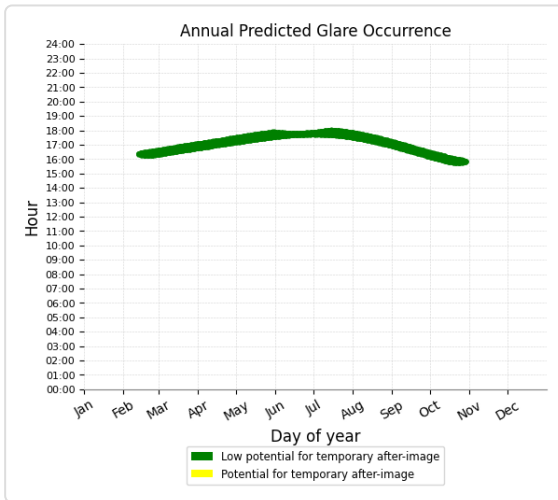
Green glare: 8,251 min.



PV array 4 and Route: Approach_23L

Yellow glare: none

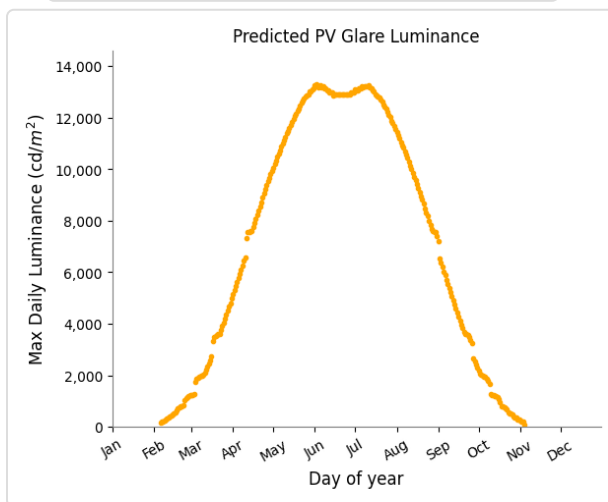
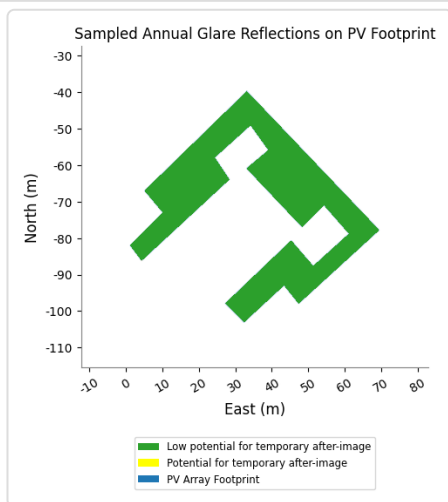
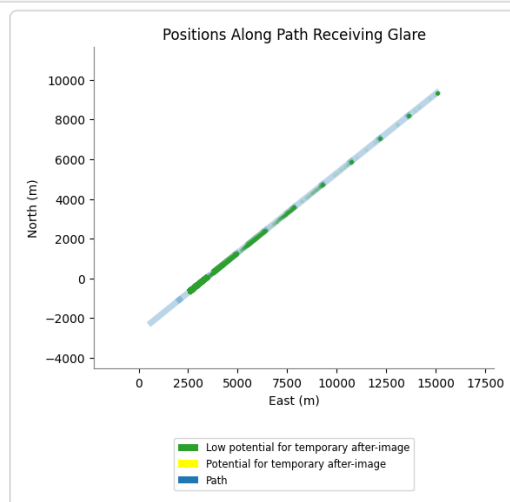
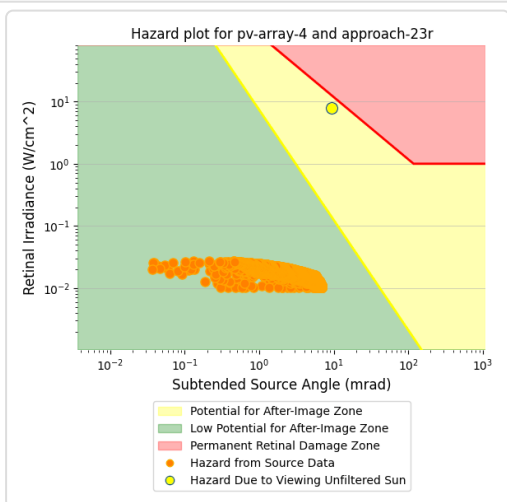
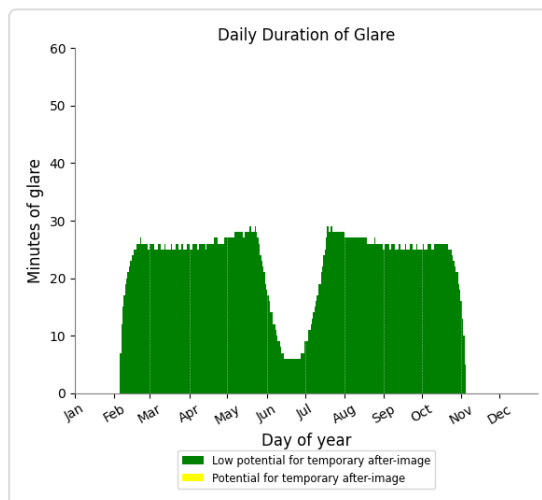
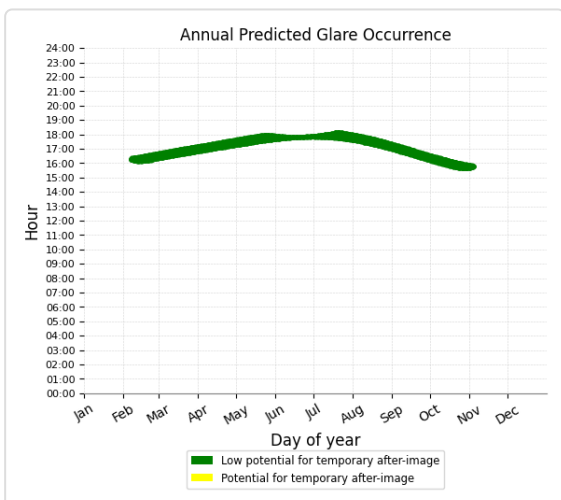
Green glare: 6,213 min.



PV array 4 and Route: Approach_23R

Yellow glare: none

Green glare: 6,230 min.



PV array 4 and Route: 1000Ft-GA_5R23L_05R-L_23L-R

No glare found

PV array 4 and Route: Approach_05L

No glare found

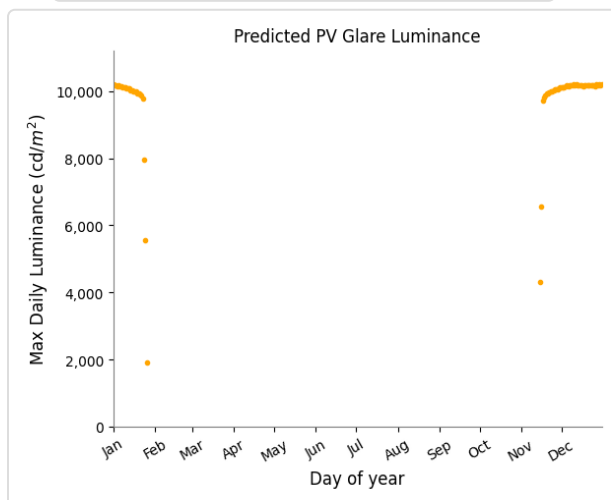
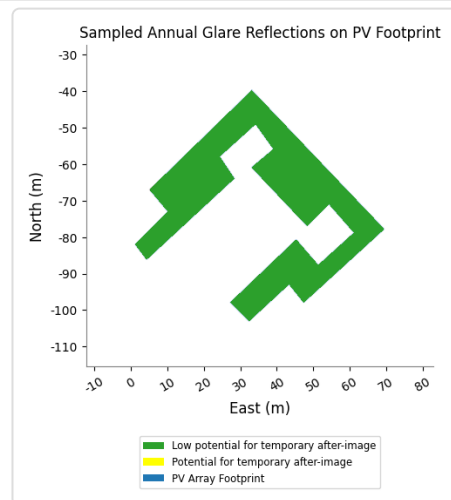
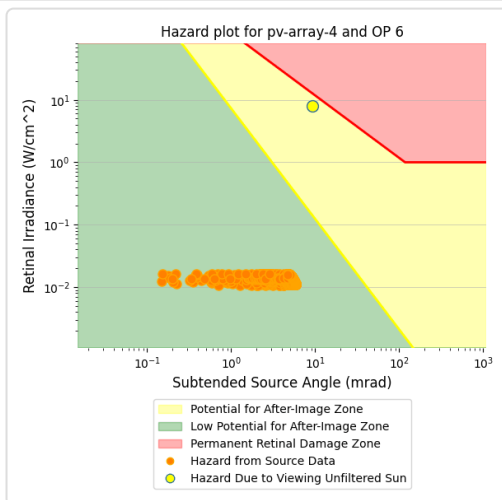
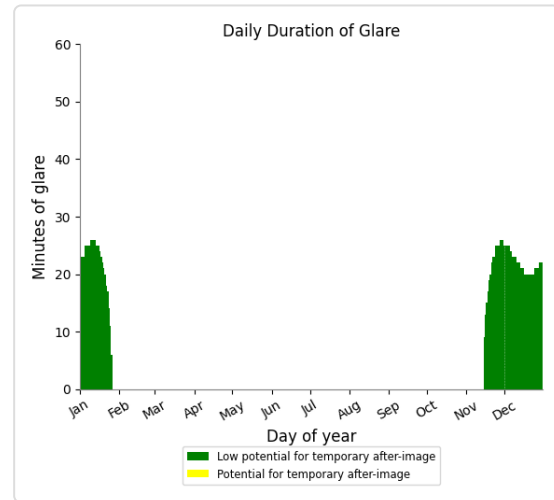
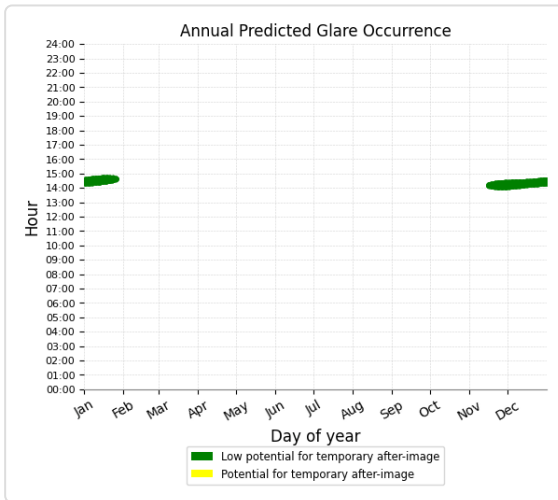
PV array 4 and Route: Approach_05R

No glare found

PV array 4 and OP 6

Yellow glare: none

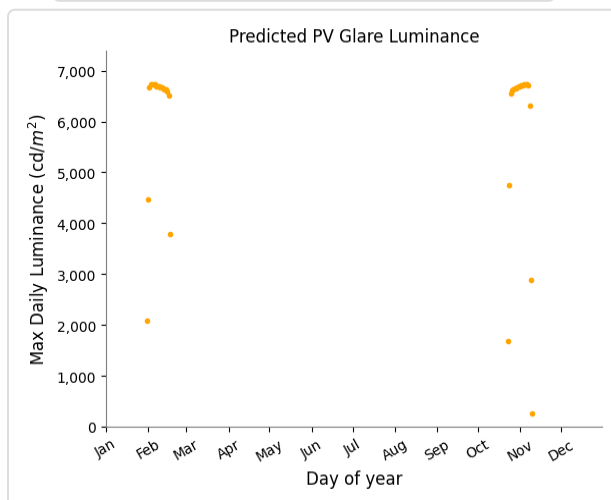
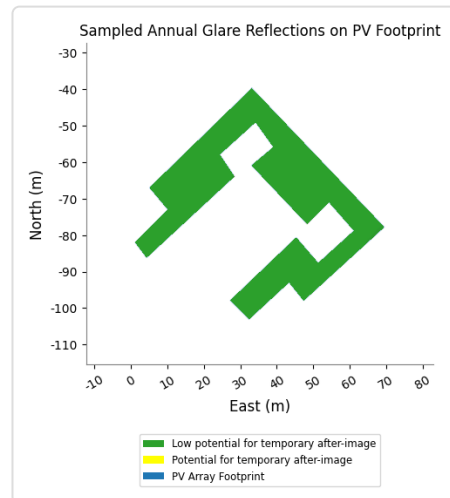
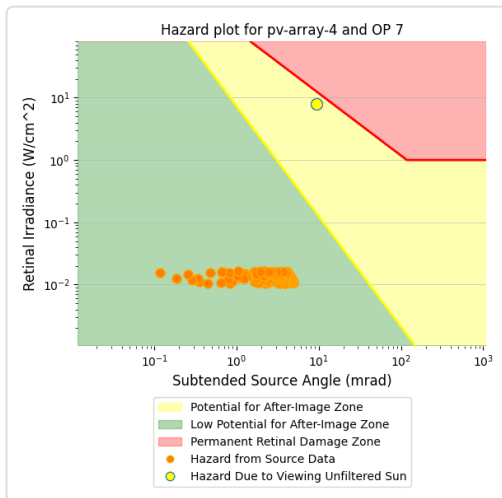
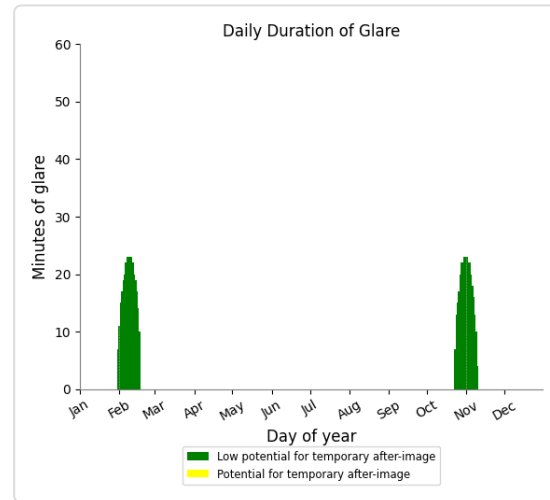
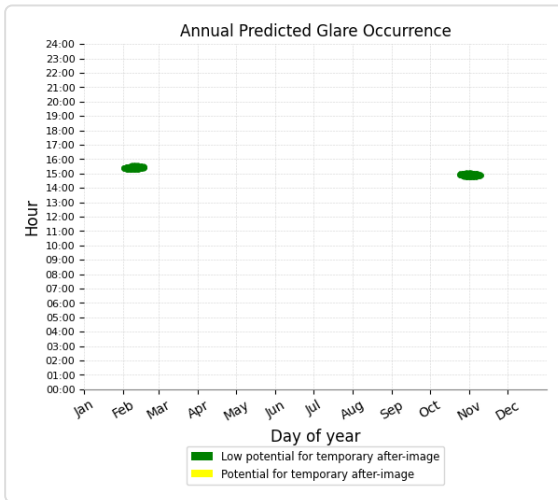
Green glare: 1,591 min.



PV array 4 and OP 7

Yellow glare: none

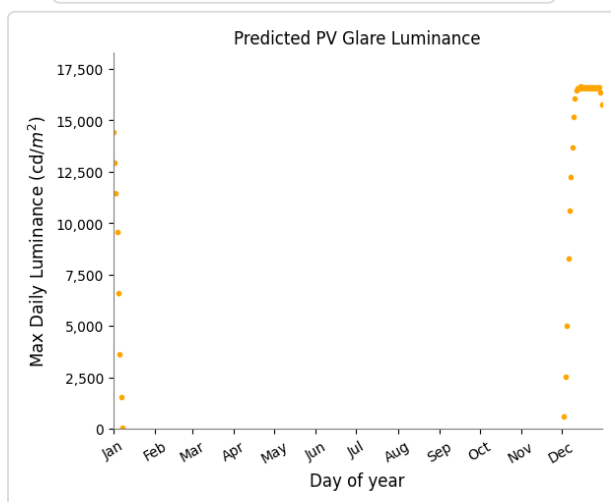
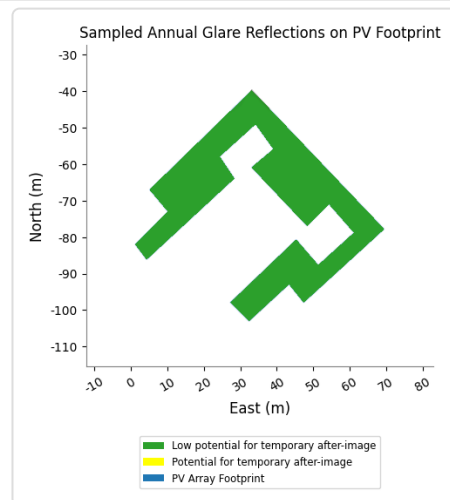
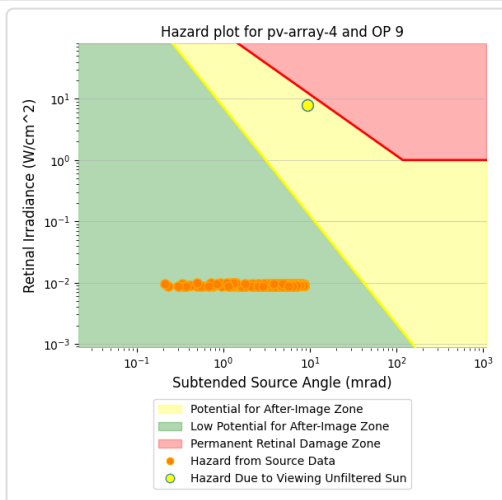
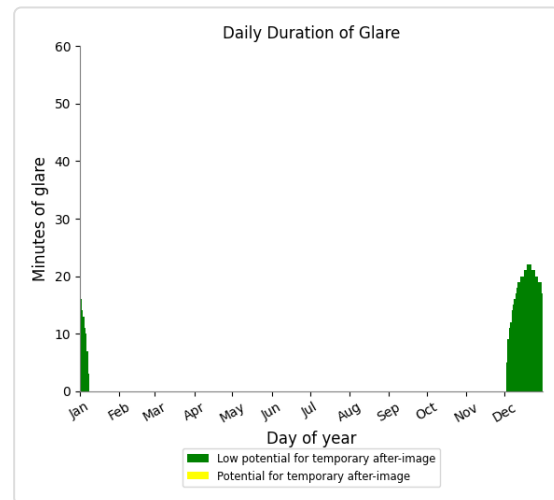
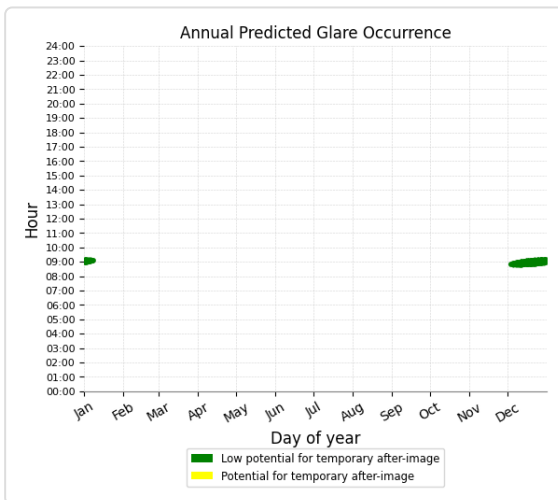
Green glare: 661 min.



PV array 4 and OP 9

Yellow glare: none

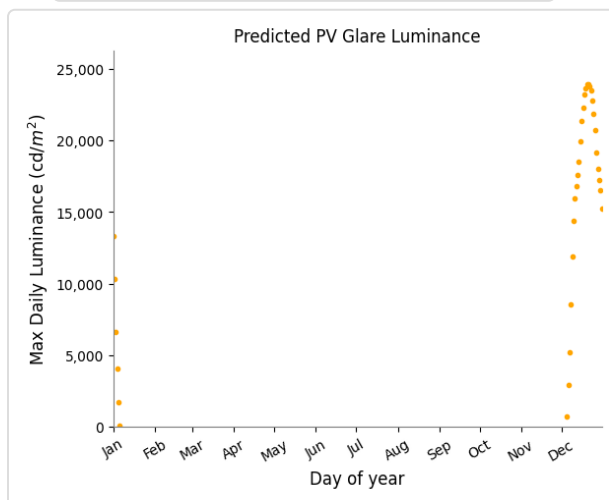
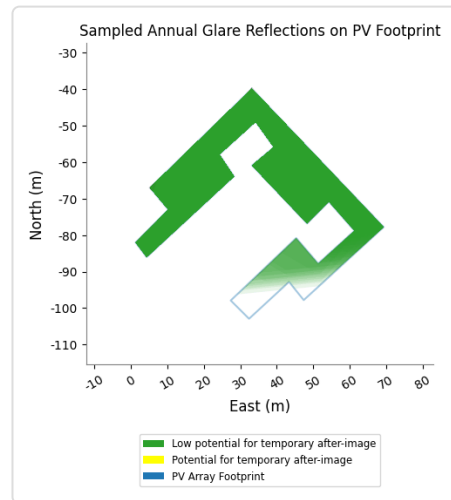
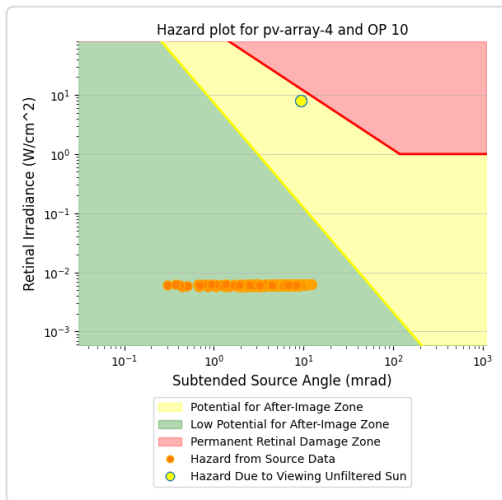
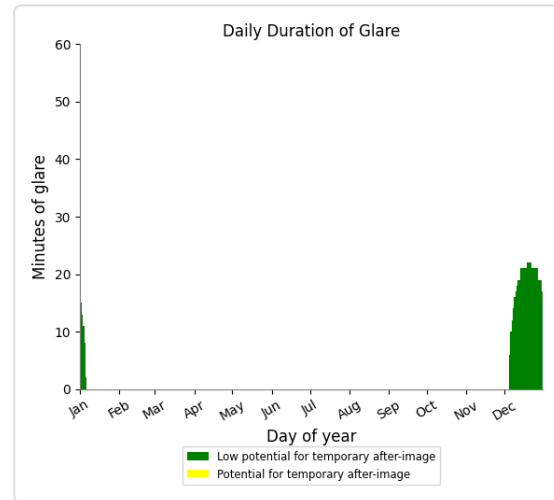
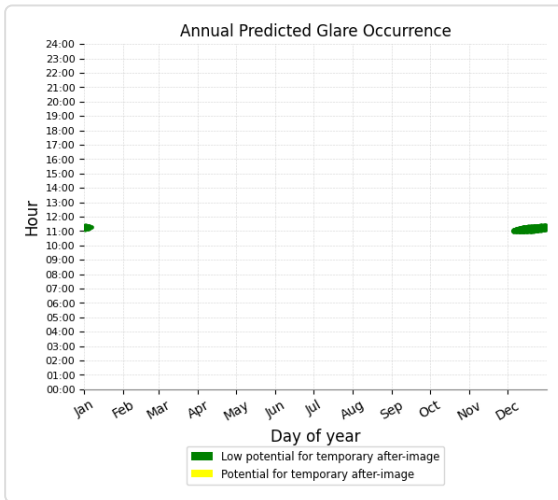
Green glare: 613 min.



PV array 4 and OP 10

Yellow glare: none

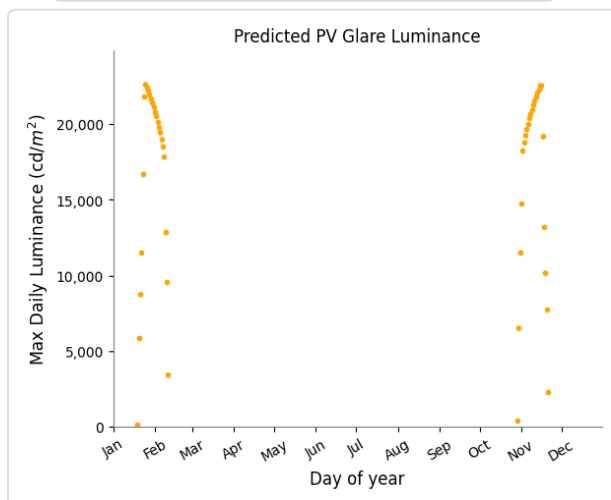
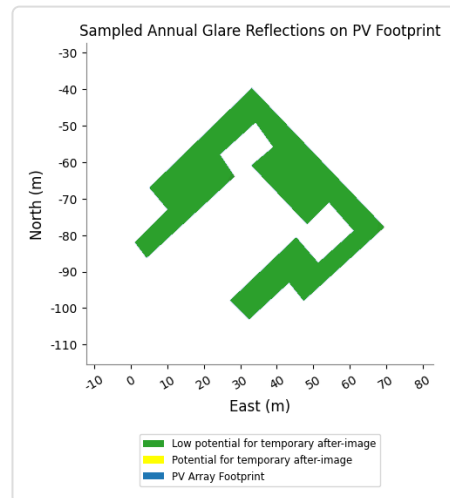
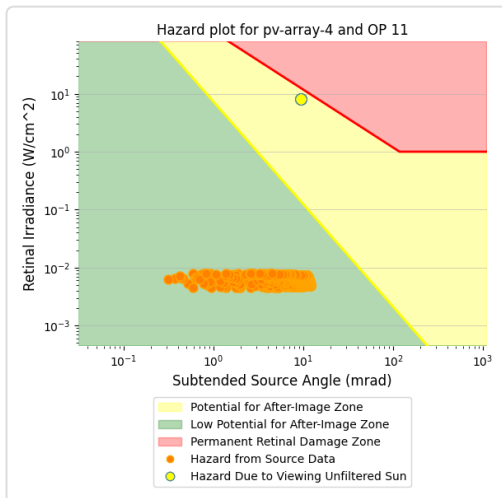
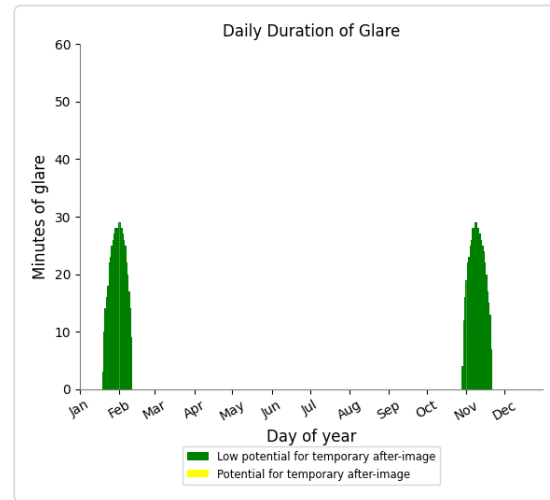
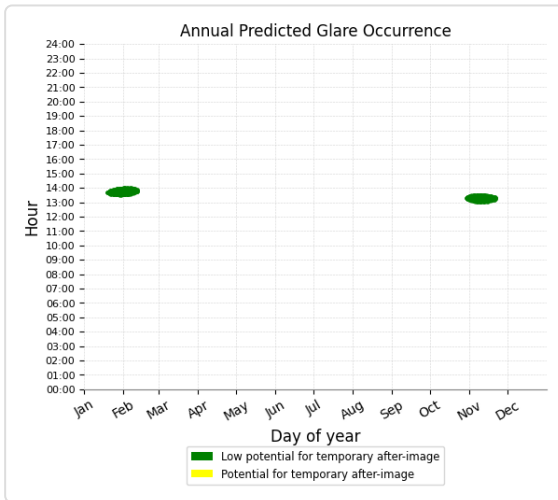
Green glare: 569 min.



PV array 4 and OP 11

Yellow glare: none

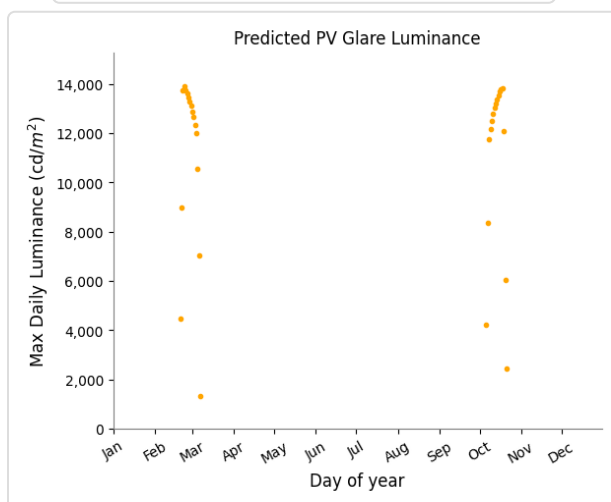
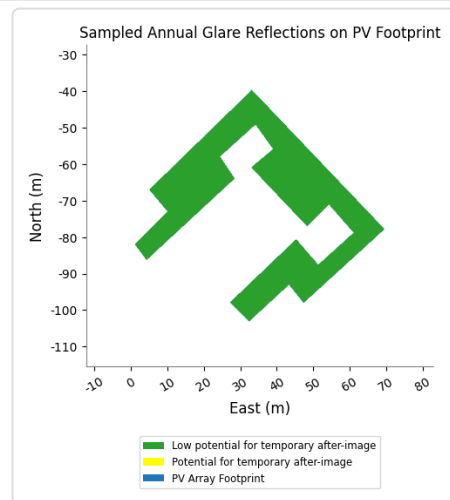
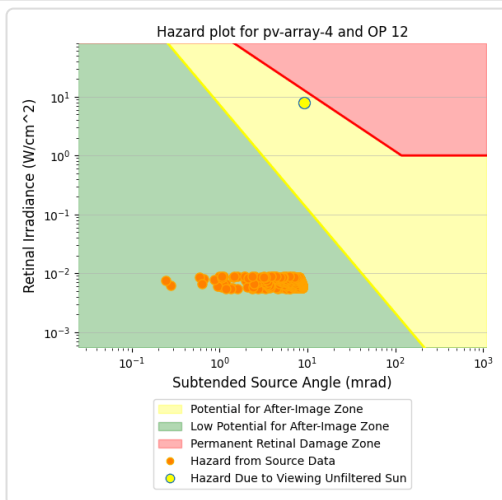
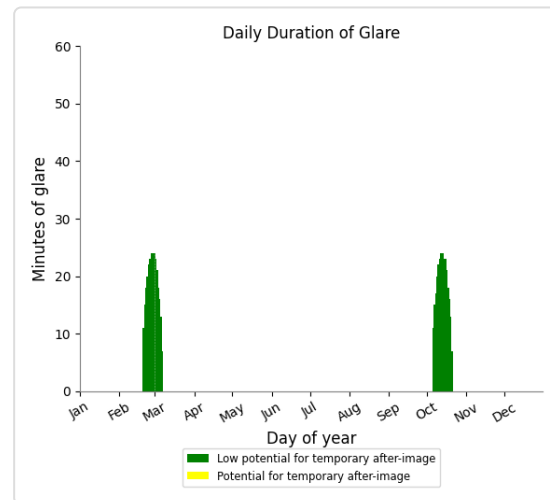
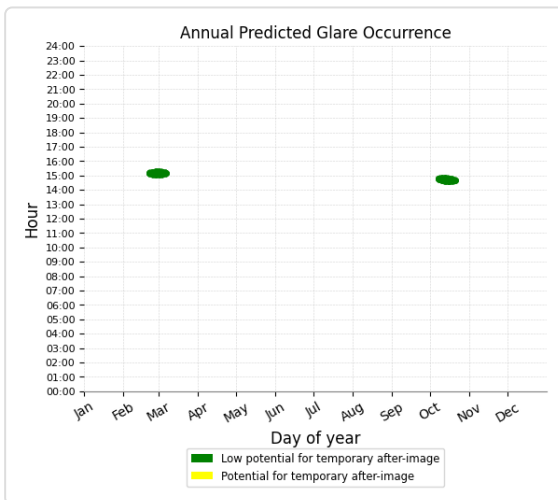
Green glare: 1,027 min.



PV array 4 and OP 12

Yellow glare: none

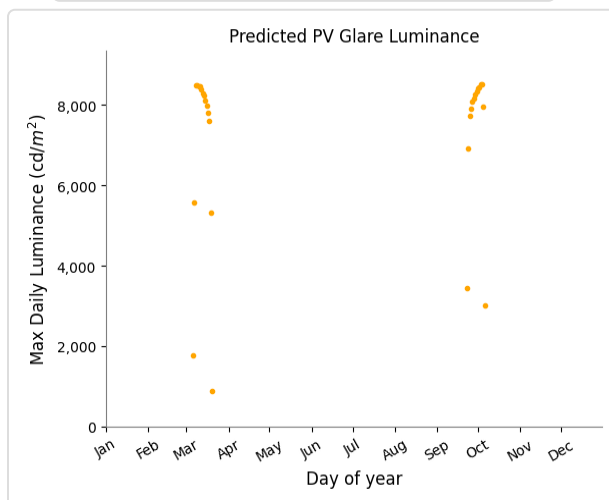
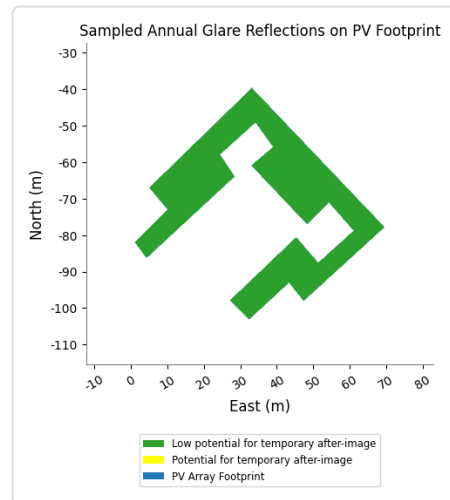
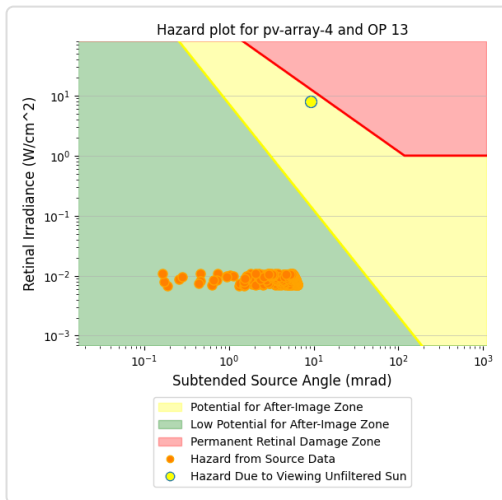
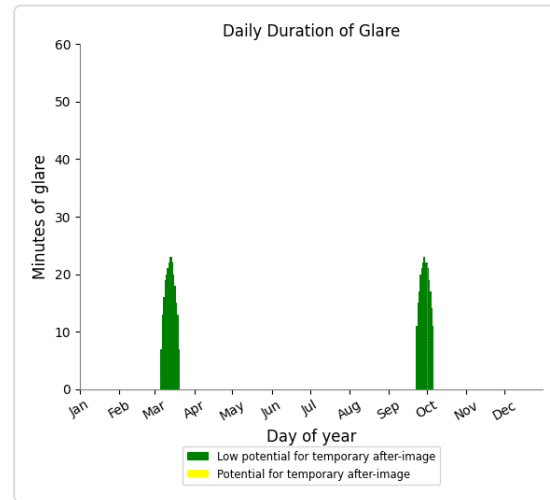
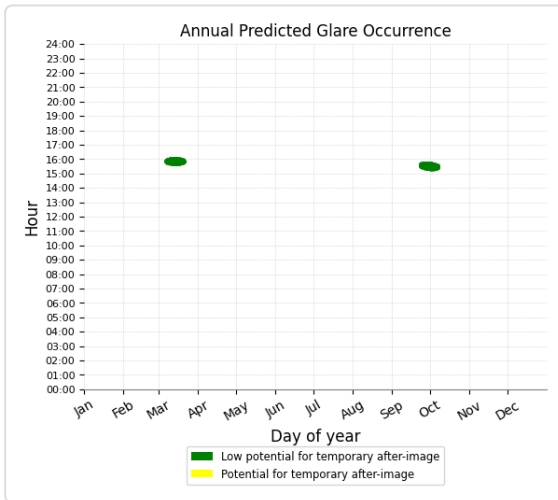
Green glare: 604 min.



PV array 4 and OP 13

Yellow glare: none

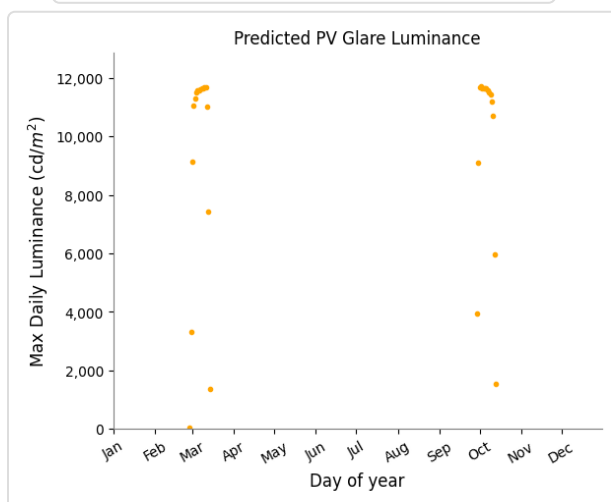
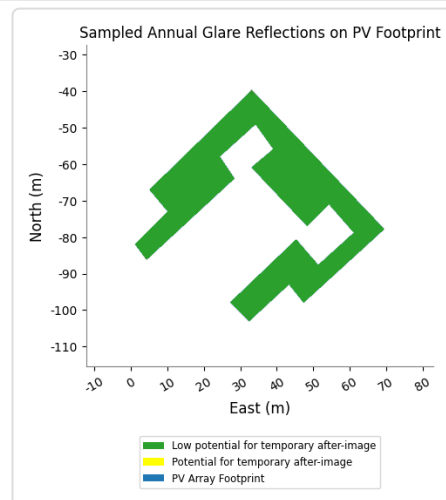
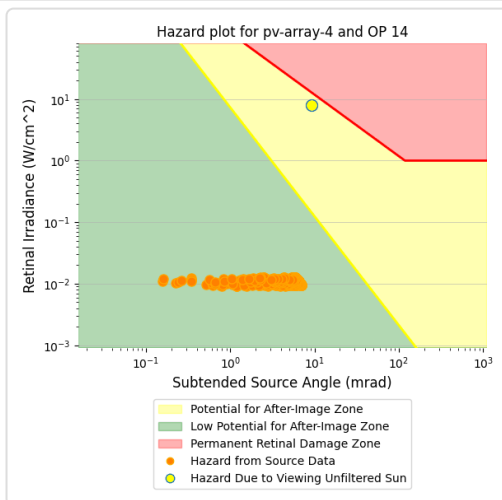
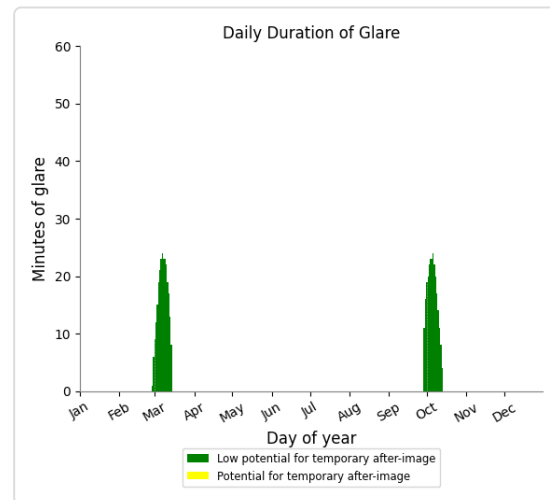
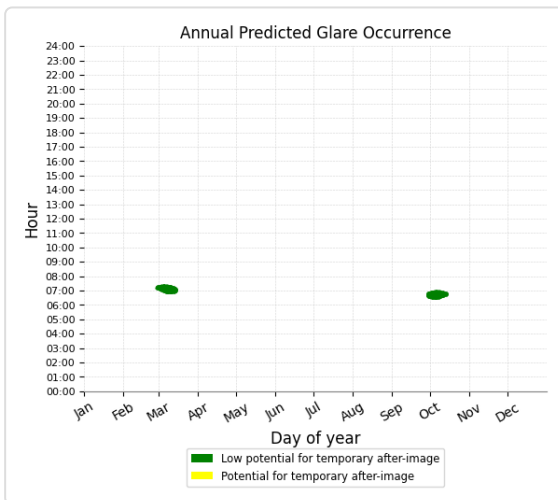
Green glare: 514 min.



PV array 4 and OP 14

Yellow glare: none

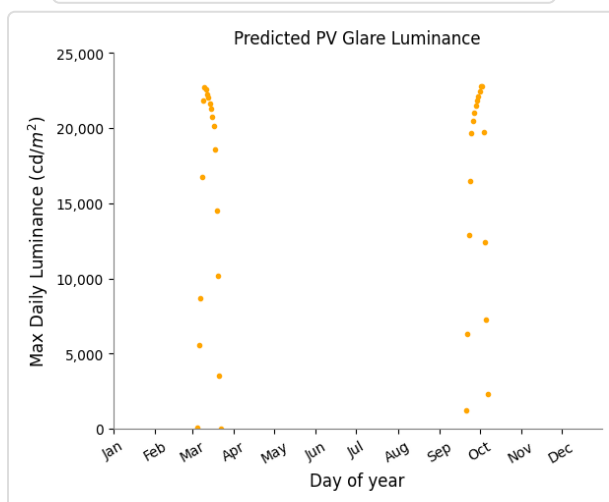
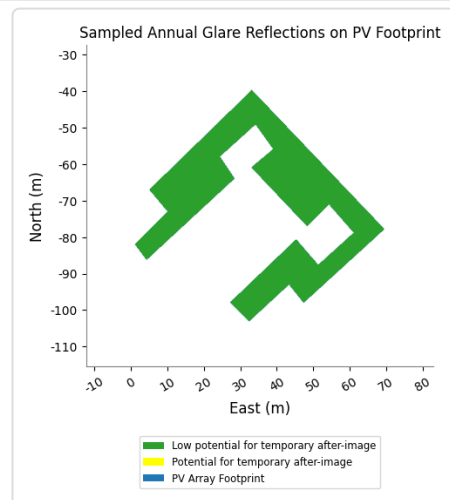
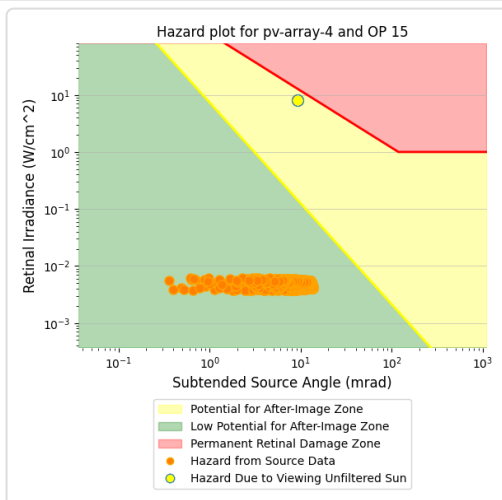
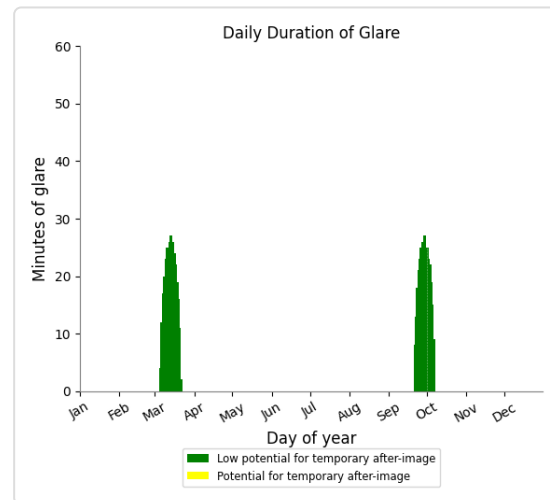
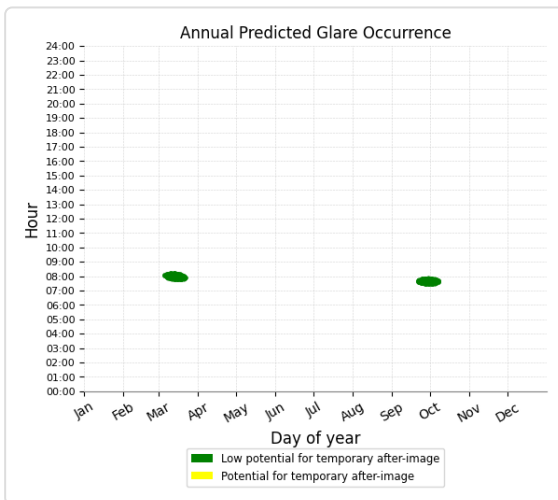
Green glare: 509 min.



PV array 4 and OP 15

Yellow glare: none

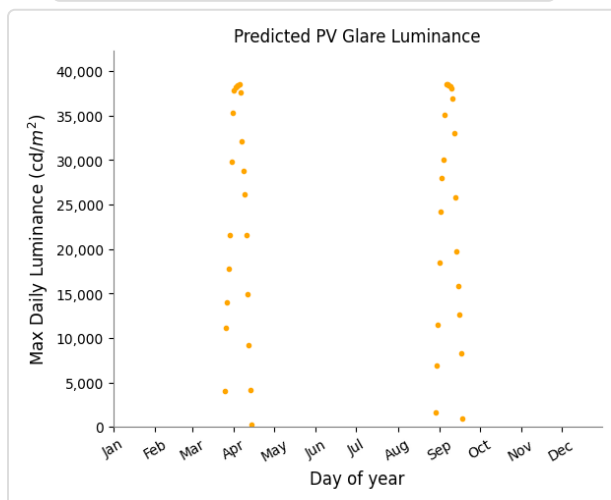
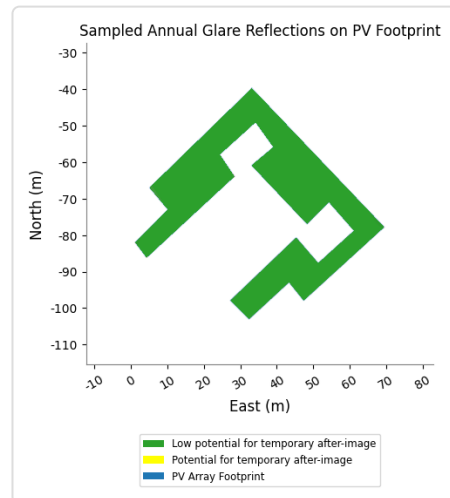
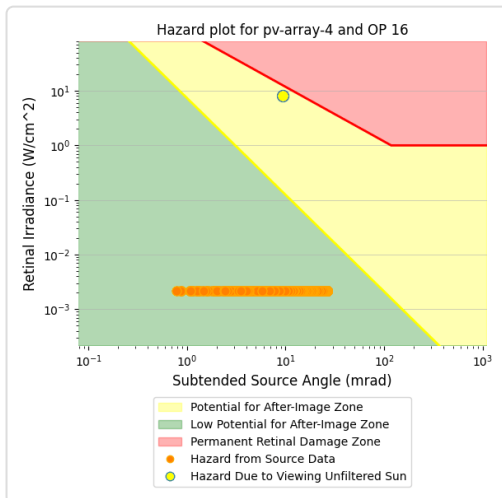
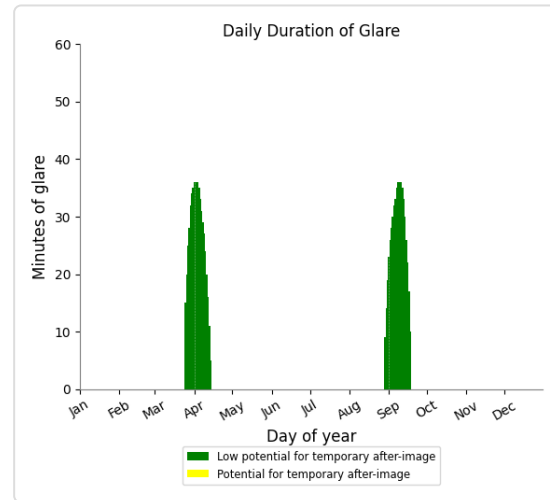
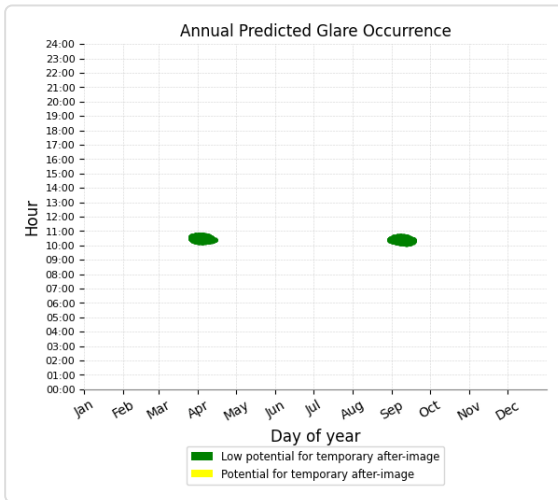
Green glare: 704 min.



PV array 4 and OP 16

Yellow glare: none

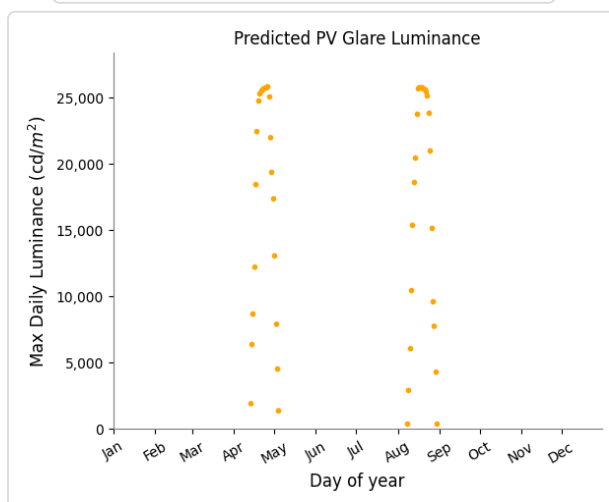
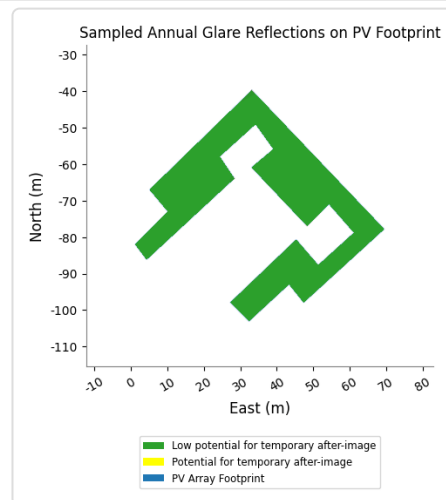
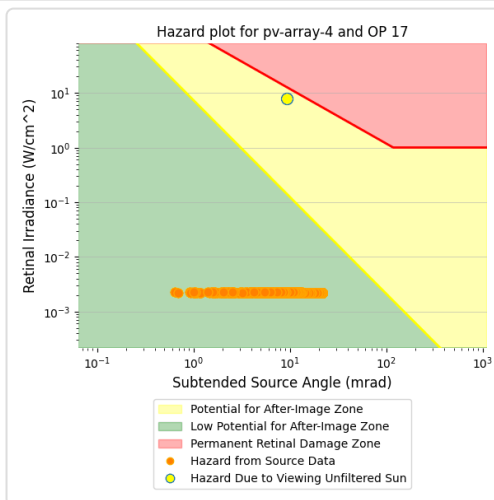
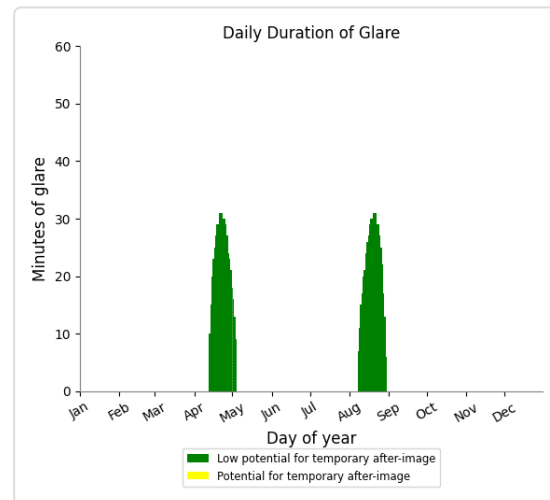
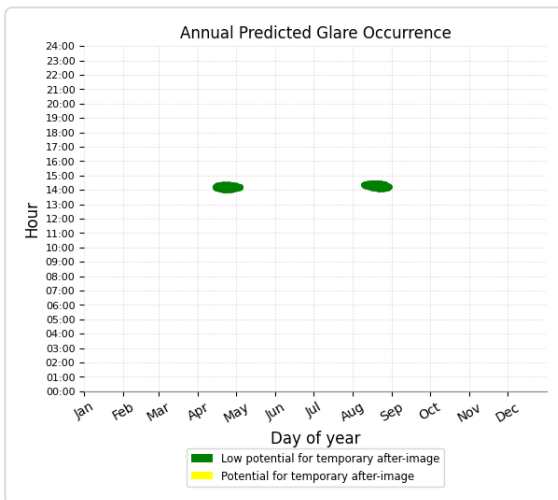
Green glare: 1,130 min.



PV array 4 and OP 17

Yellow glare: none

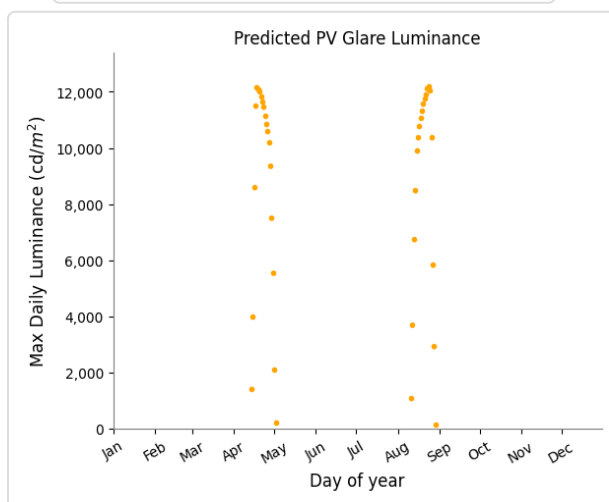
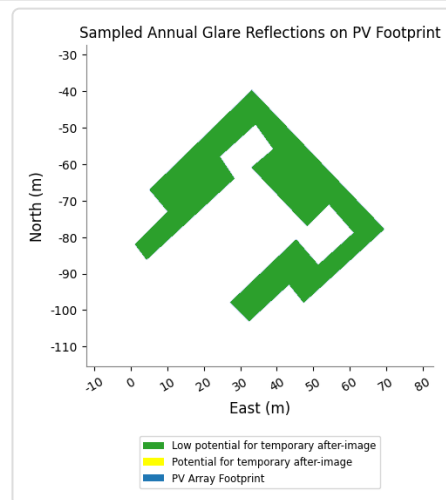
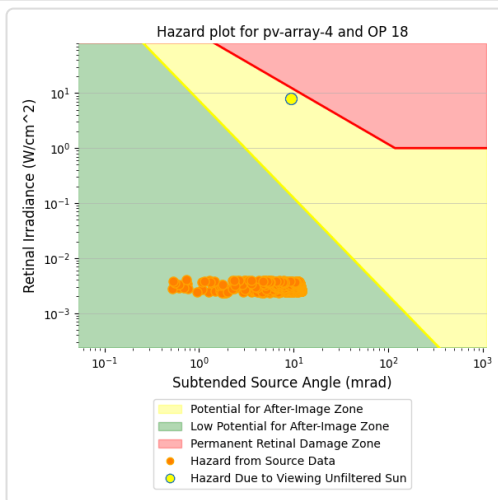
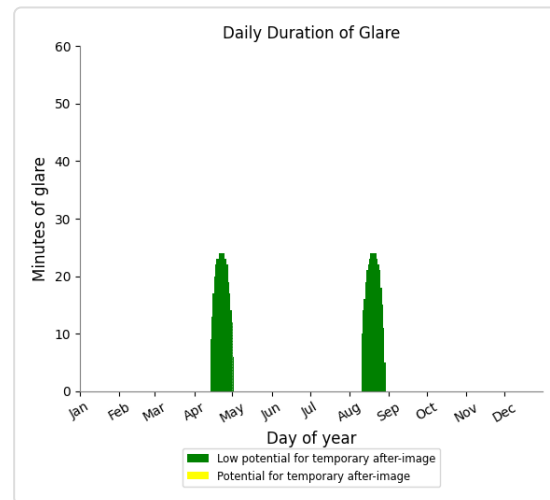
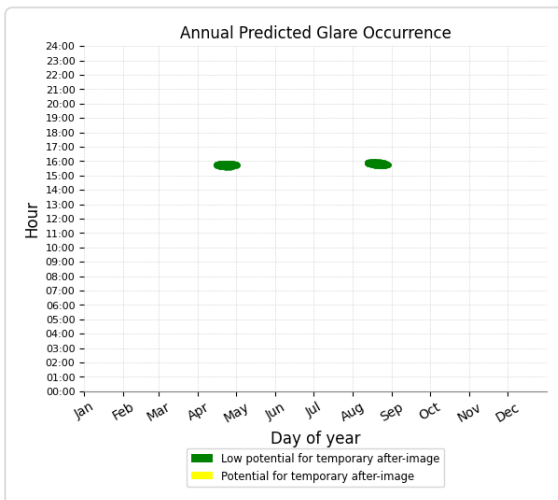
Green glare: 1,029 min.



PV array 4 and OP 18

Yellow glare: none

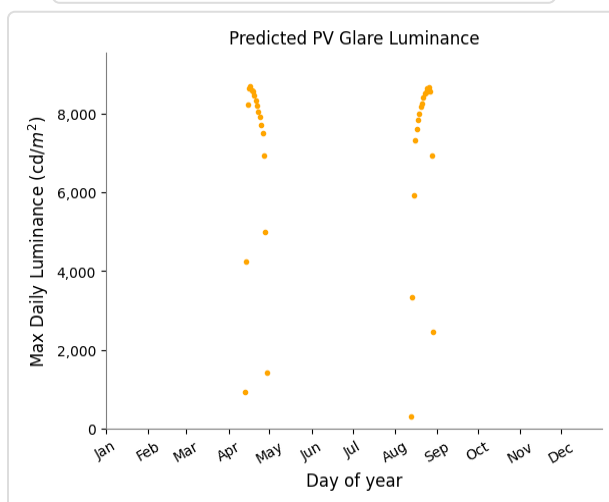
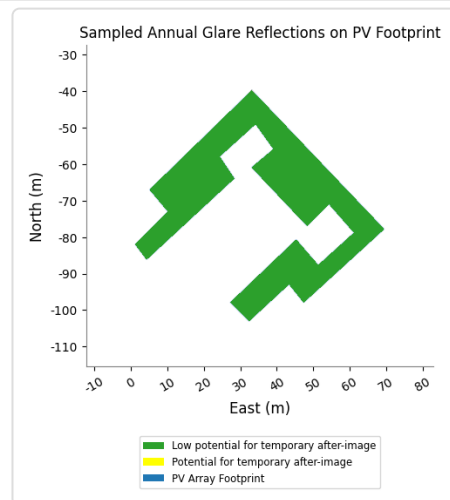
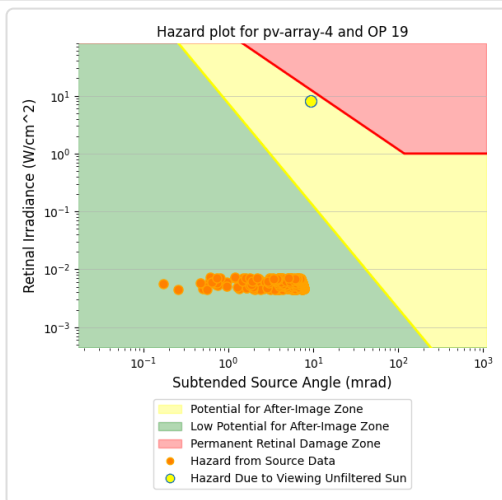
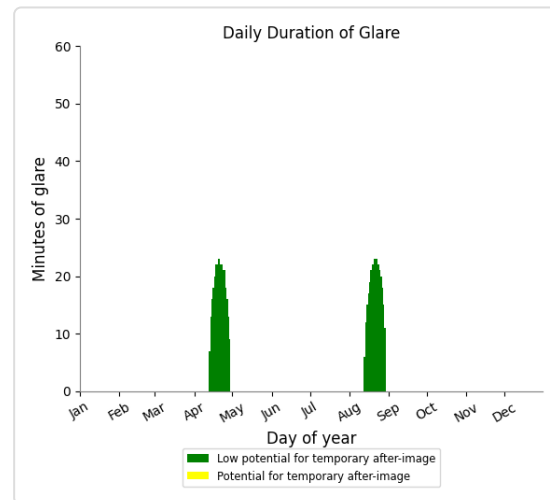
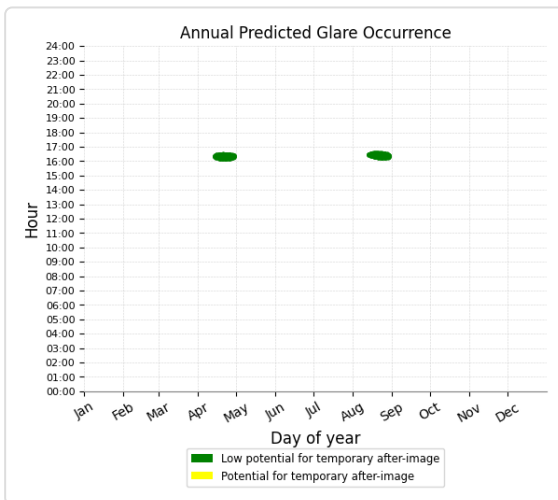
Green glare: 719 min.



PV array 4 and OP 19

Yellow glare: none

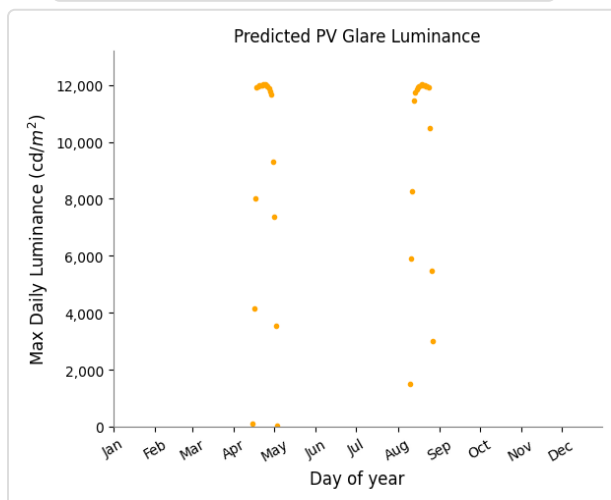
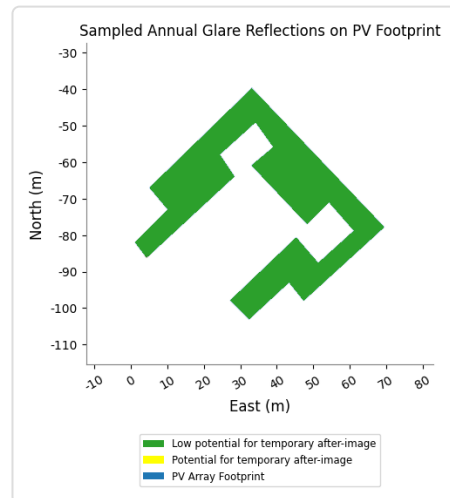
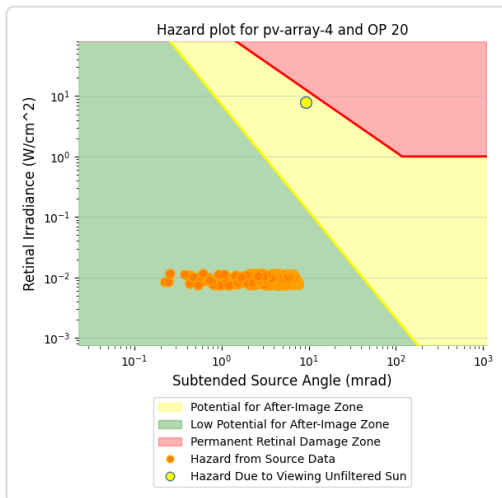
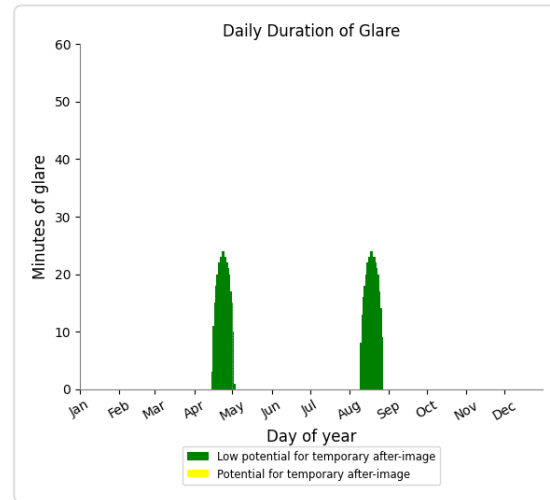
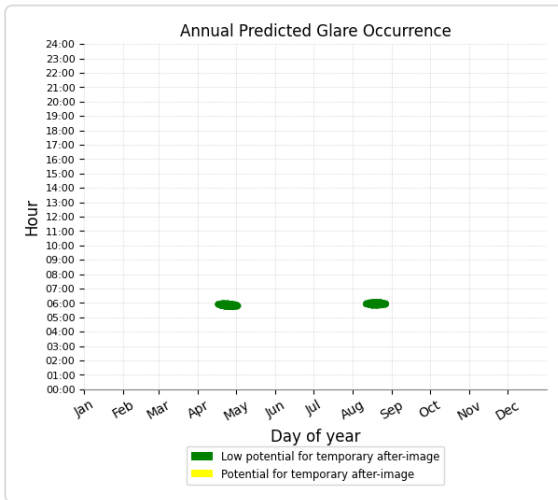
Green glare: 616 min.



PV array 4 and OP 20

Yellow glare: none

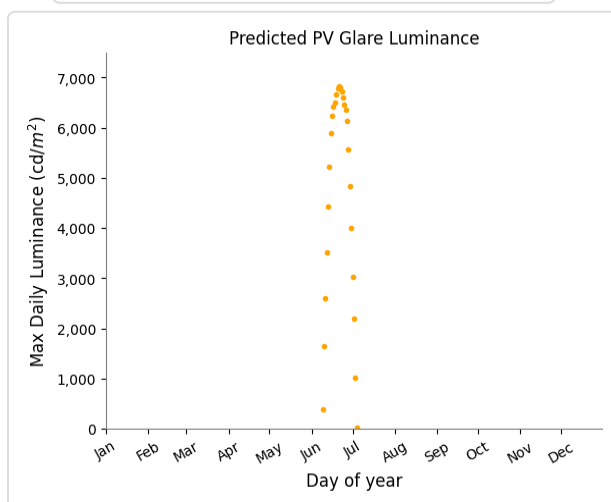
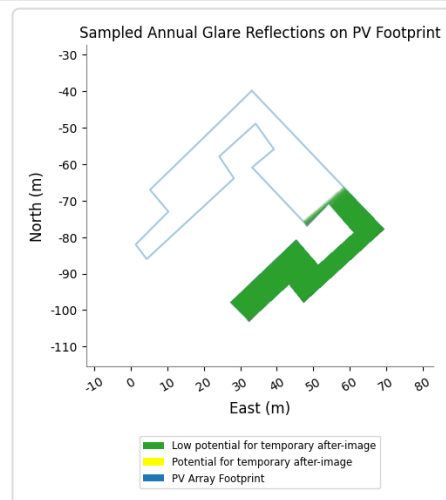
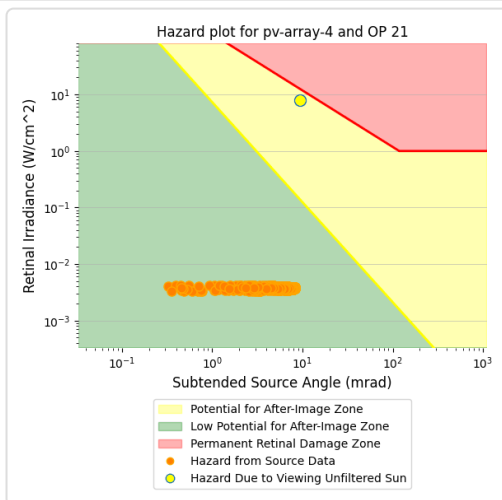
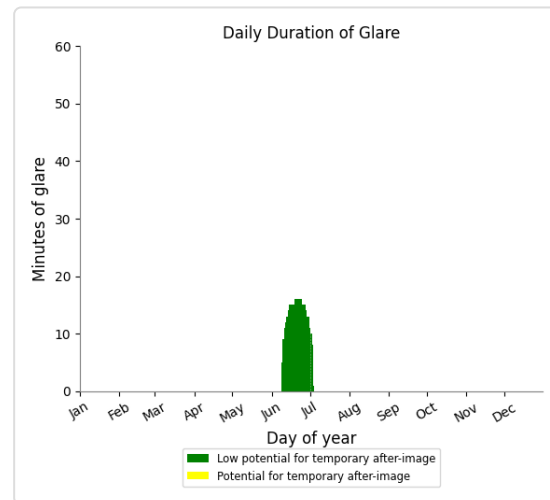
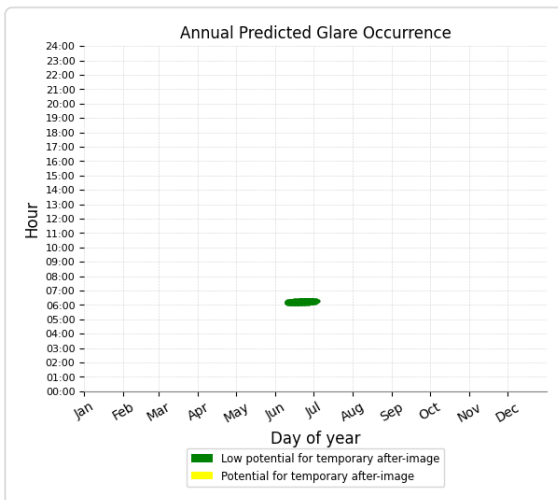
Green glare: 674 min.



PV array 4 and OP 21

Yellow glare: none

Green glare: 335 min.



PV array 4 and 1-ATCT

No glare found

PV array 4 and OP 2

No glare found

PV array 4 and OP 3

No glare found

PV array 4 and OP 4

No glare found

PV array 4 and OP 5

No glare found

PV array 4 and OP 8

No glare found

PV array 4 and OP 22

No glare found

PV array 4 and OP 23

No glare found

PV array 4 and OP 24

No glare found

PV array 4 and OP 25

No glare found

PV array 4 and OP 26

No glare found

PV array 4 and OP 27

No glare found

PV array 4 and OP 28

No glare found

PV array 4 and OP 29

No glare found

PV array 4 and OP 30

No glare found

PV array 4 and OP 31

No glare found

PV array 4 and OP 32

No glare found

PV array 4 and OP 33

No glare found

PV array 4 and OP 34

No glare found

PV array 4 and OP 35

No glare found

PV array 4 and OP 36

No glare found

PV array 4 and OP 37

No glare found

PV array 4 and OP 38

No glare found

PV array 4 and OP 39

No glare found

PV array 4 and OP 40

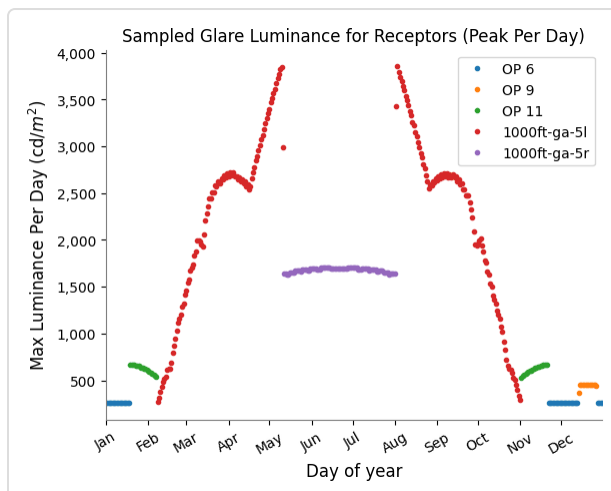
No glare found

PV: PV array 5 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
1000Ft-GA_5L23R_05L-L_23R-R	3,120	52.0	0	0.0	355
1000Ft-GA_5L23R_05L-R_23R-L	8,436	140.6	0	0.0	3,853
1000Ft-GA_5R23L_05R-R_23L-L	5,997	100.0	0	0.0	1,709
1500Ft-CA_5L23R_05L-L_23R-R	5,108	85.1	0	0.0	354
1500Ft-CA_5L23R_05L-R_23R-L	8,034	133.9	0	0.0	354
Approach_23L	6,122	102.0	0	0.0	249
Approach_23R	6,178	103.0	0	0.0	355
1000Ft-GA_5R23L_05R-L_23L-R	0	0.0	0	0.0	0
Approach_05L	0	0.0	0	0.0	0
Approach_05R	0	0.0	0	0.0	0
OP 6	1,309	21.8	0	0.0	261
OP 7	559	9.3	0	0.0	170
OP 9	117	1.9	0	0.0	451
OP 11	700	11.7	0	0.0	671
OP 12	451	7.5	0	0.0	381
OP 13	411	6.8	0	0.0	222
OP 14	370	6.2	0	0.0	313
OP 15	430	7.2	0	0.0	707
OP 16	457	7.6	0	0.0	1,575
OP 17	495	8.2	0	0.0	942
OP 18	477	8.0	0	0.0	369
OP 19	471	7.8	0	0.0	236
OP 20	483	8.1	0	0.0	324
OP 21	319	5.3	0	0.0	568
1-ATCT	0	0.0	0	0.0	0
OP 2	0	0.0	0	0.0	0
OP 3	0	0.0	0	0.0	0
OP 4	0	0.0	0	0.0	0
OP 5	0	0.0	0	0.0	0
OP 8	0	0.0	0	0.0	0
OP 10	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 24	0	0.0	0	0.0	0
OP 25	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	0	0.0	0

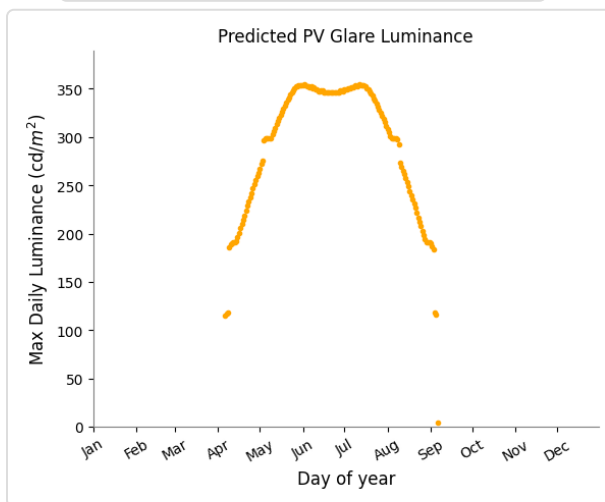
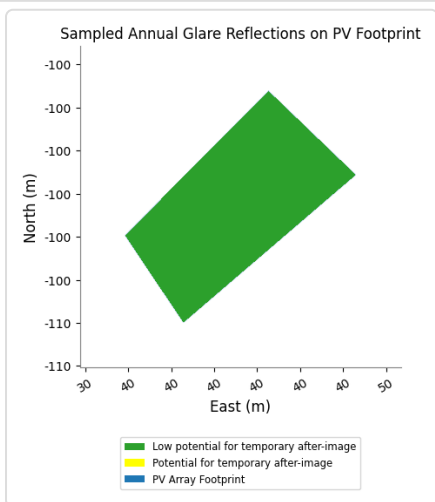
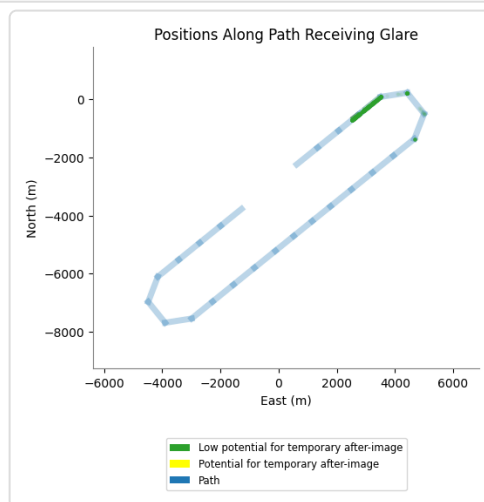
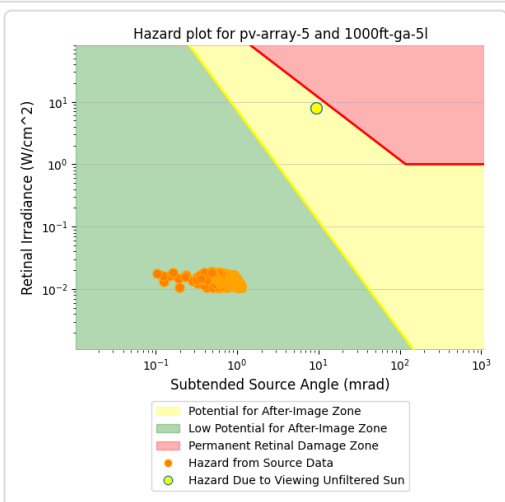
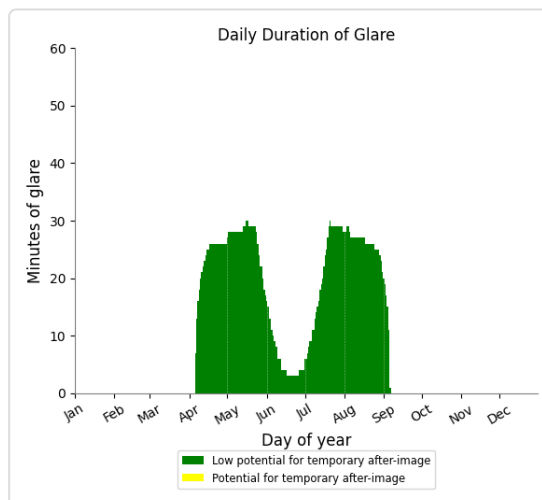
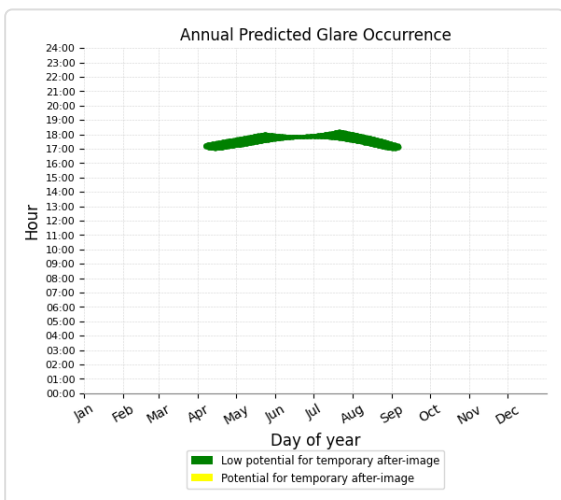
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 29	0	0.0	0	0.0	0
OP 30	0	0.0	0	0.0	0
OP 31	0	0.0	0	0.0	0
OP 32	0	0.0	0	0.0	0
OP 33	0	0.0	0	0.0	0
OP 34	0	0.0	0	0.0	0
OP 35	0	0.0	0	0.0	0
OP 36	0	0.0	0	0.0	0
OP 37	0	0.0	0	0.0	0
OP 38	0	0.0	0	0.0	0
OP 39	0	0.0	0	0.0	0
OP 40	0	0.0	0	0.0	0



PV array 5 and Route: 1000Ft-GA_5L23R_05L-L_23R-R

Yellow glare: none

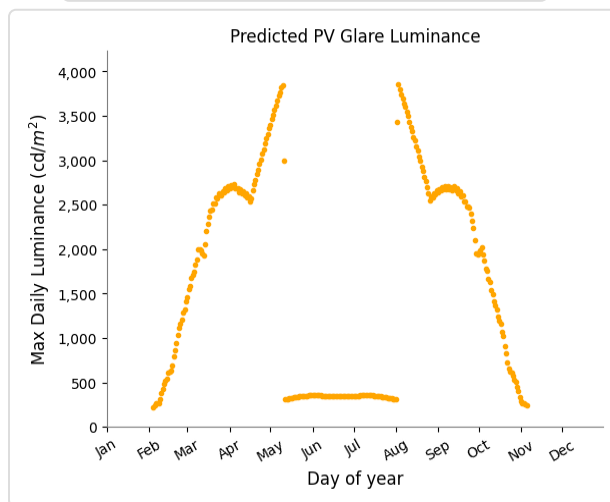
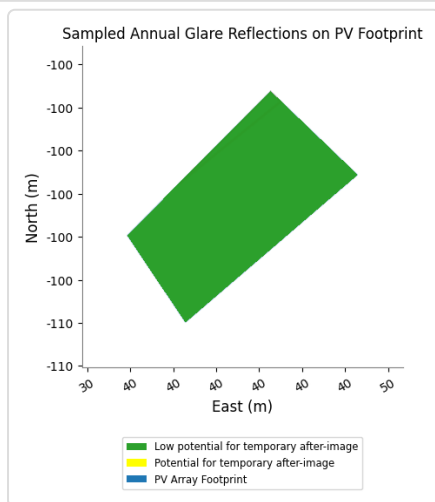
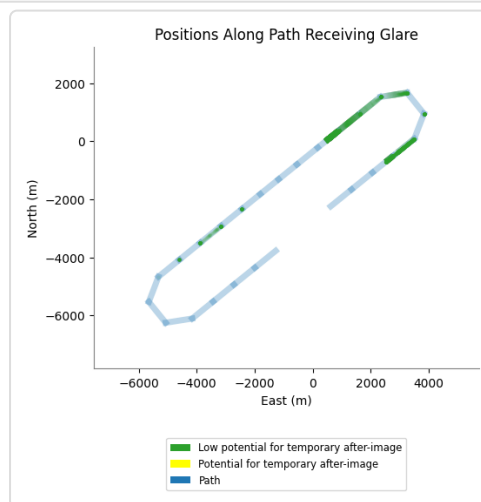
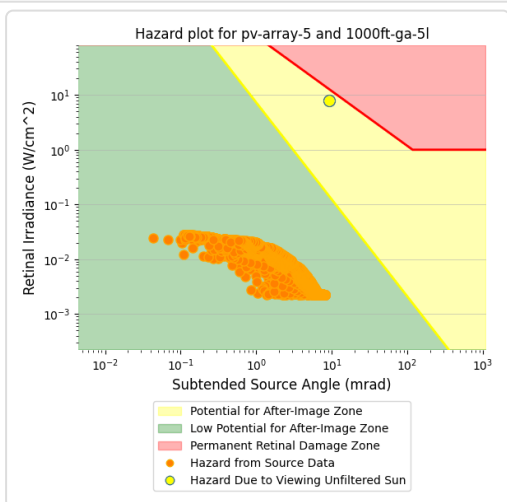
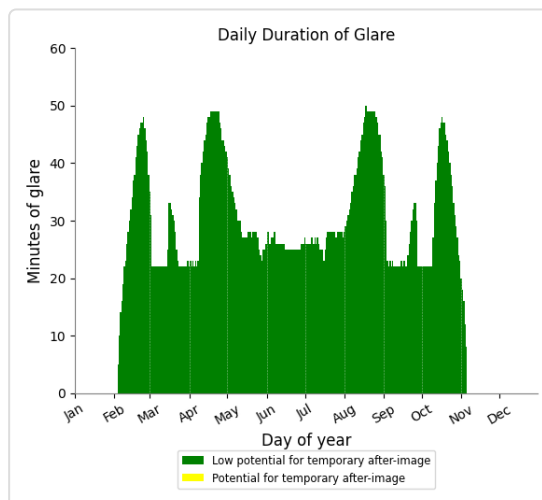
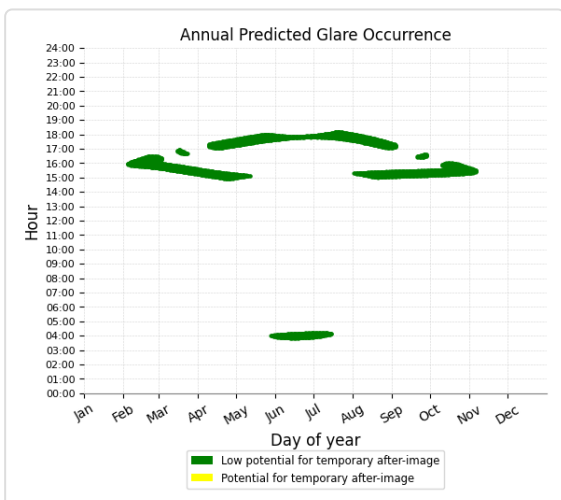
Green glare: 3,120 min.



PV array 5 and Route: 1000Ft-GA_5L23R_05L-R_23R-L

Yellow glare: none

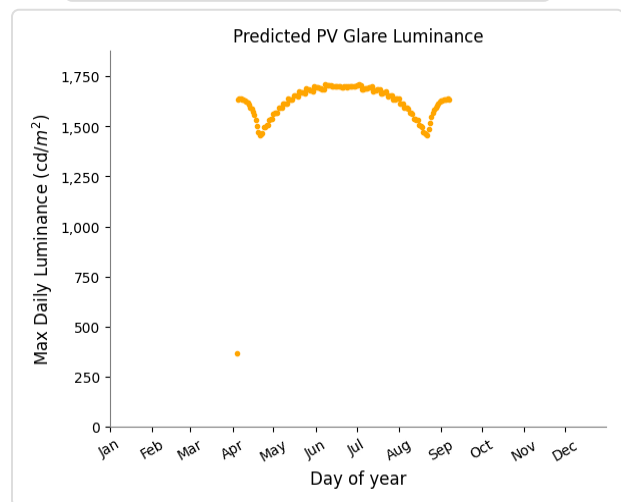
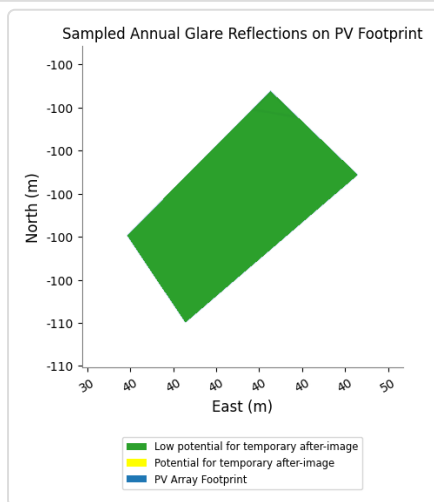
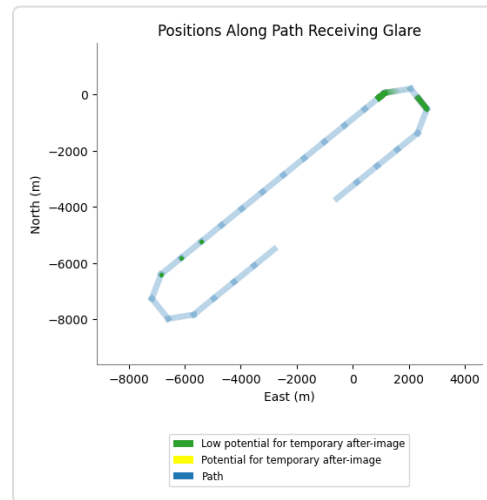
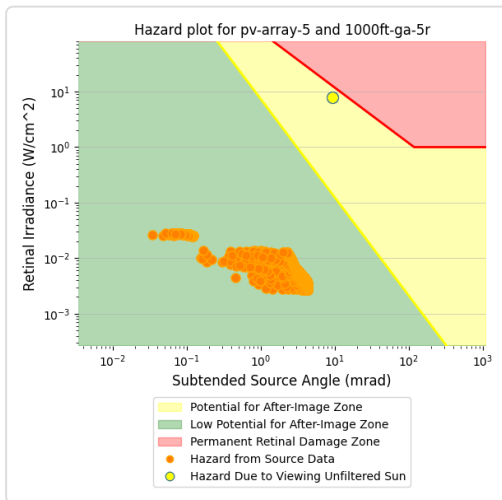
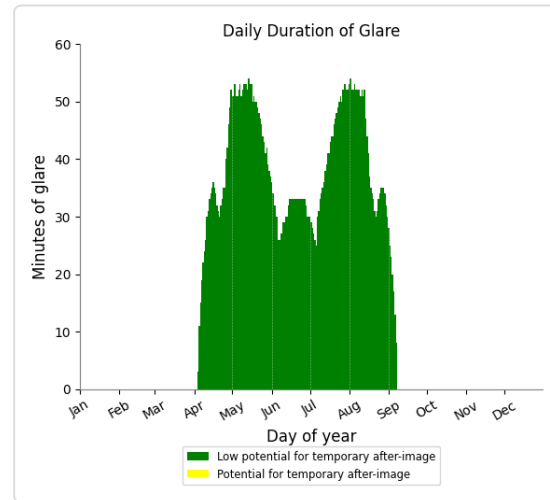
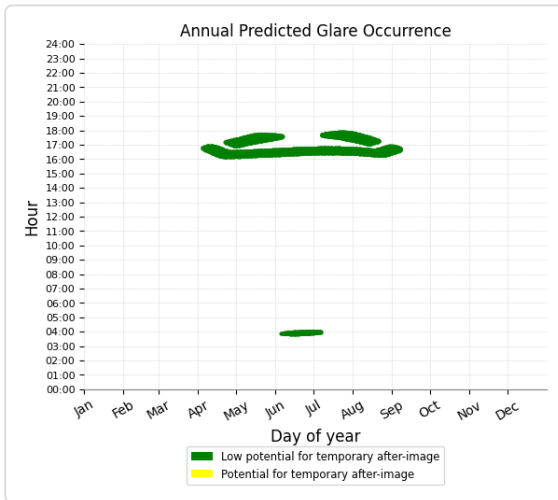
Green glare: 8,436 min.



PV array 5 and Route: 1000Ft-GA_5R23L_05R-R_23L-L

Yellow glare: none

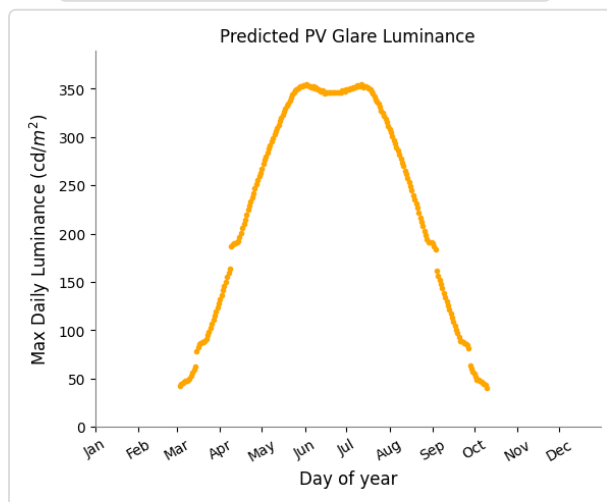
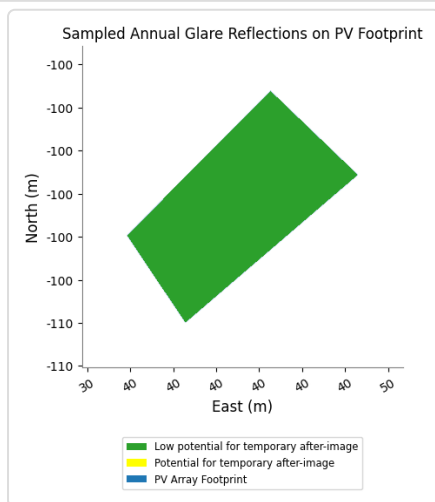
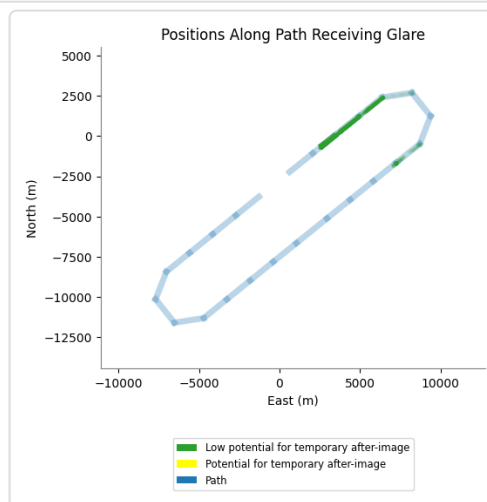
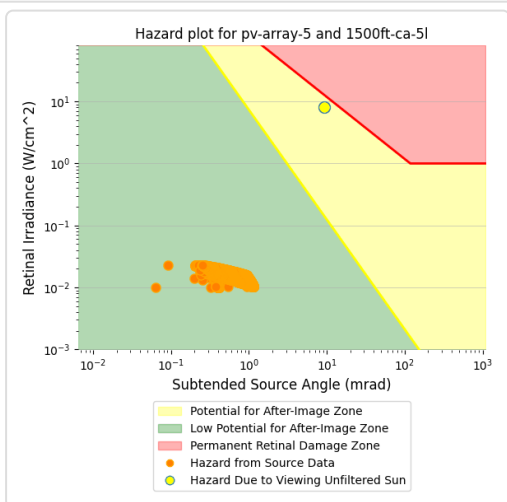
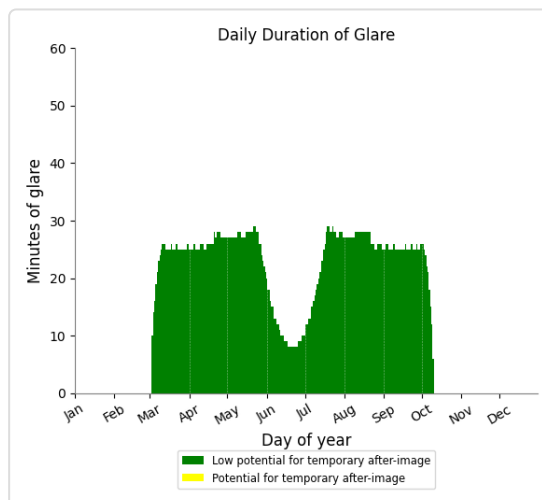
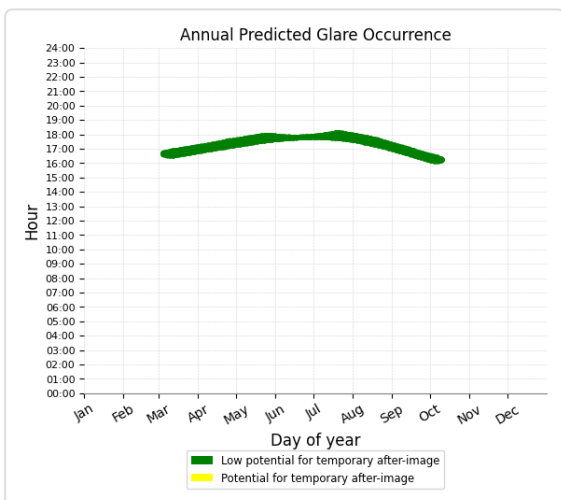
Green glare: 5,997 min.



PV array 5 and Route: 1500Ft-CA_5L23R_05L-L_23R-R

Yellow glare: none

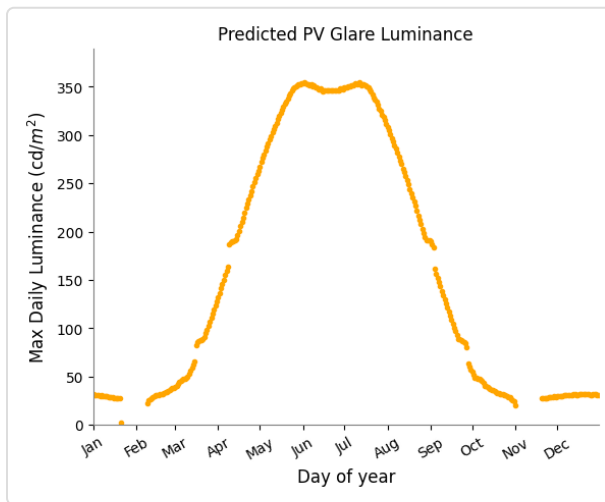
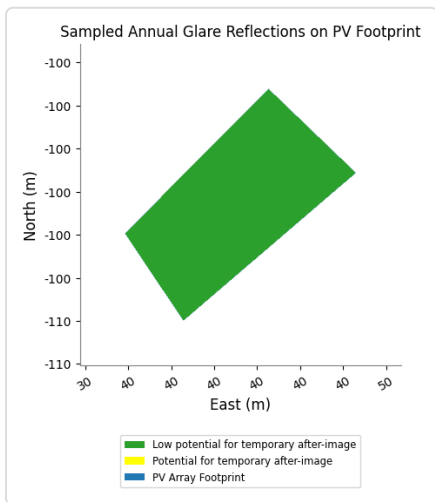
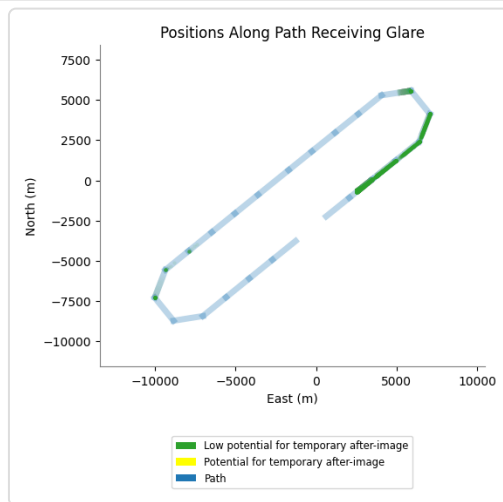
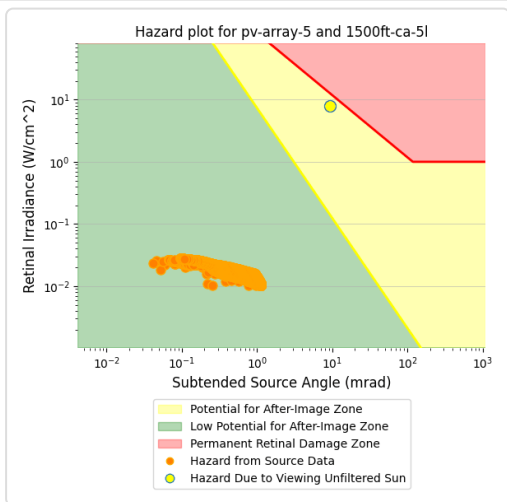
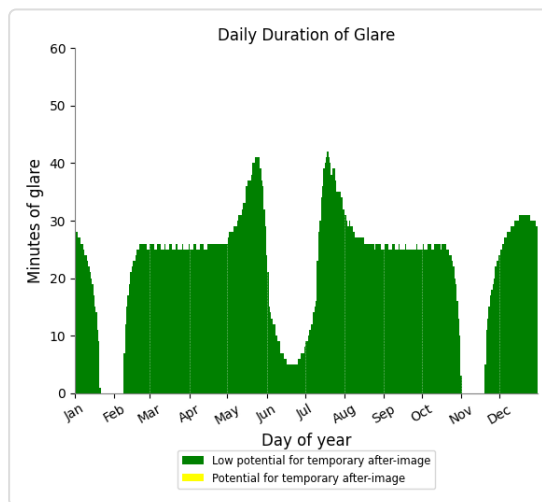
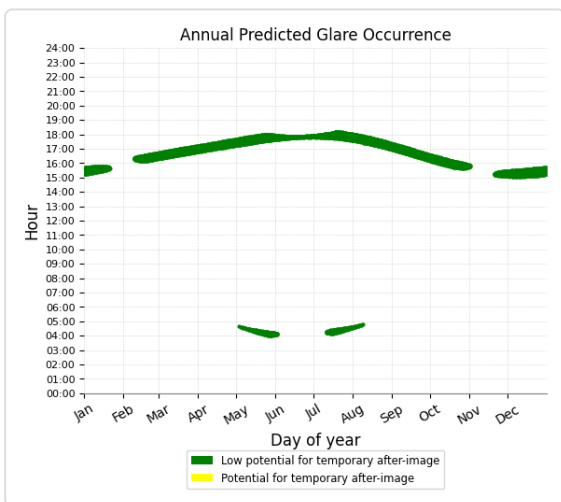
Green glare: 5,108 min.



PV array 5 and Route: 1500Ft-CA_5L23R_05L-R_23R-L

Yellow glare: none

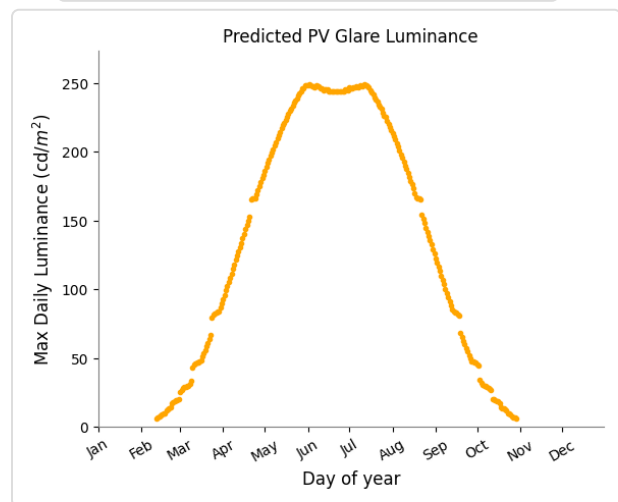
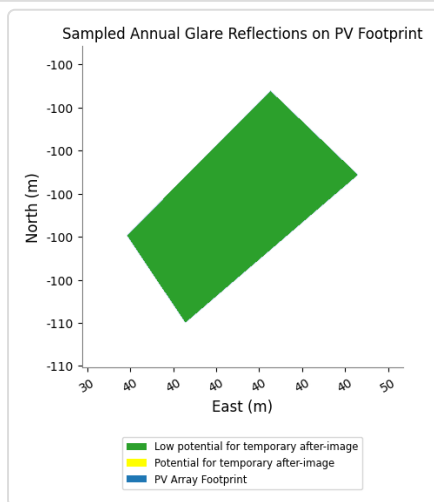
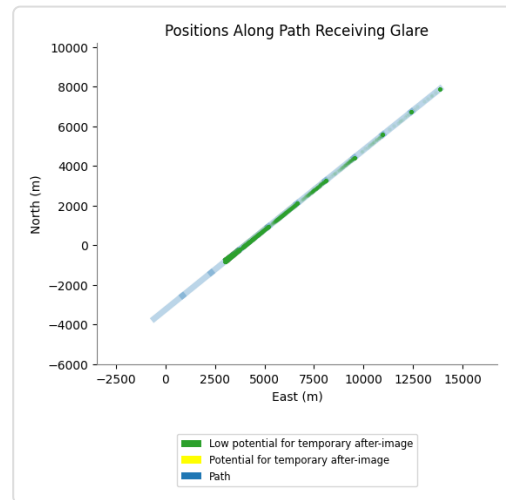
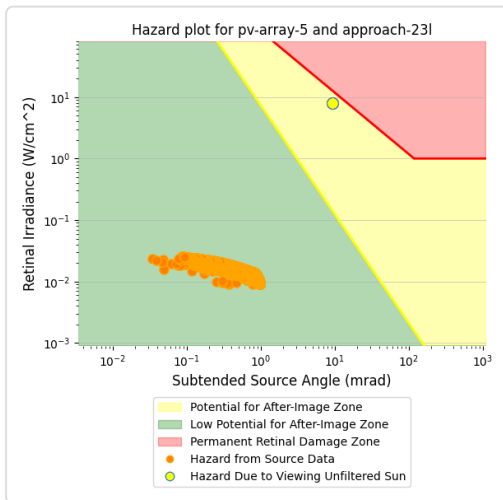
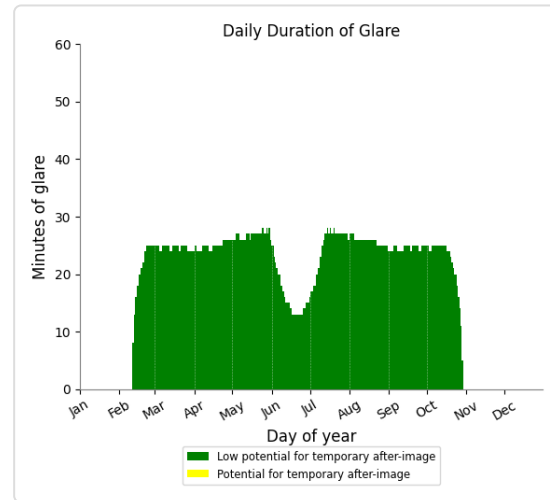
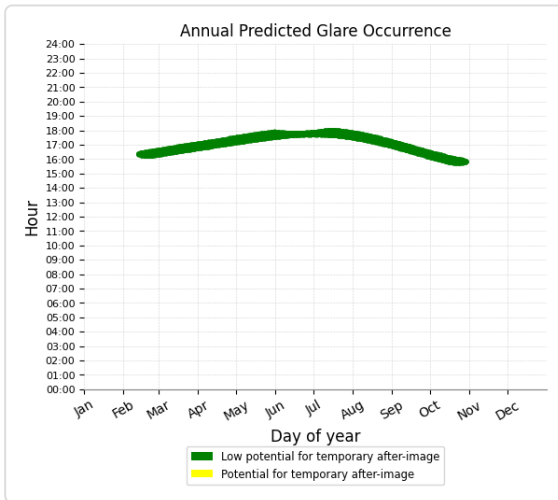
Green glare: 8,034 min.



PV array 5 and Route: Approach_23L

Yellow glare: none

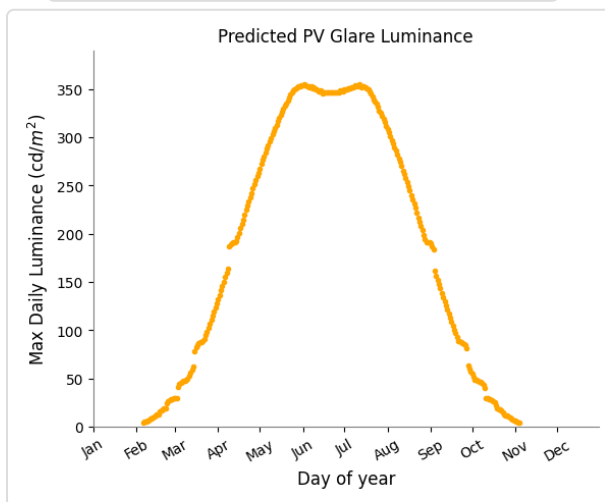
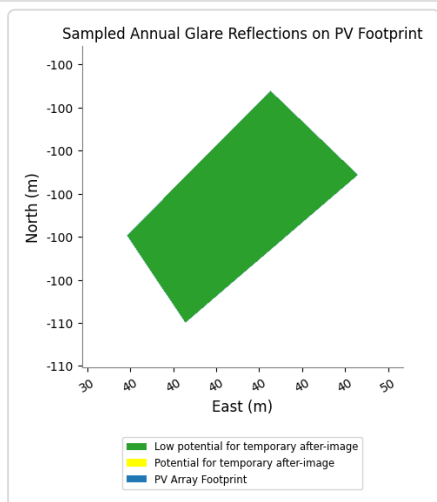
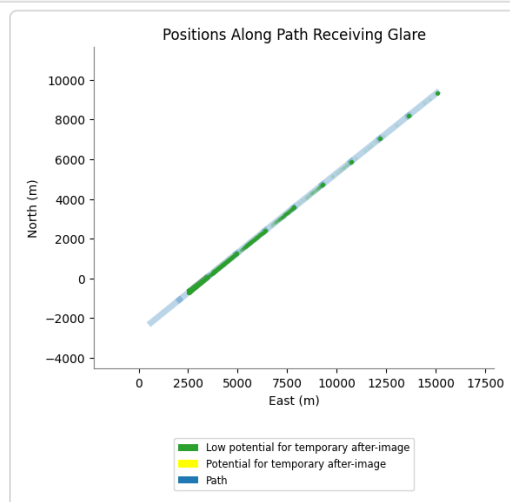
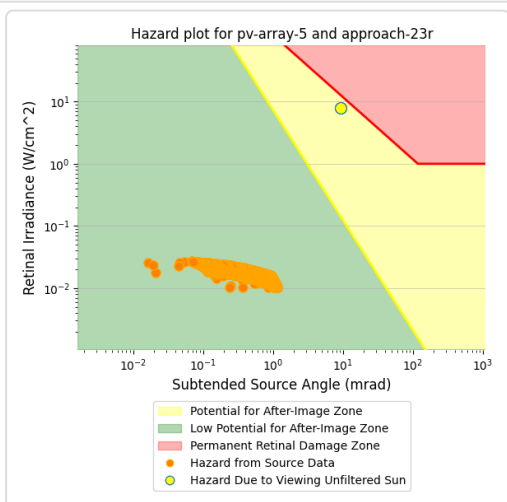
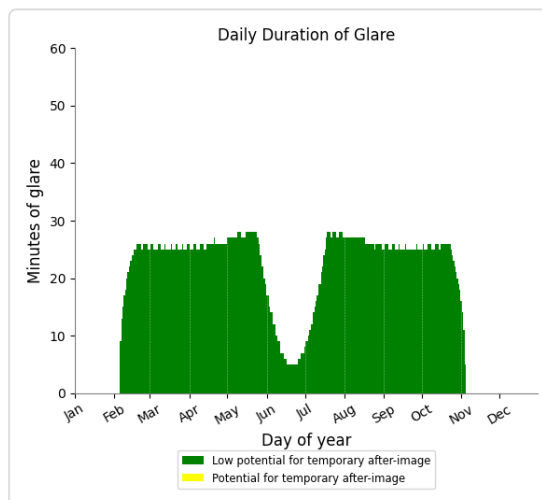
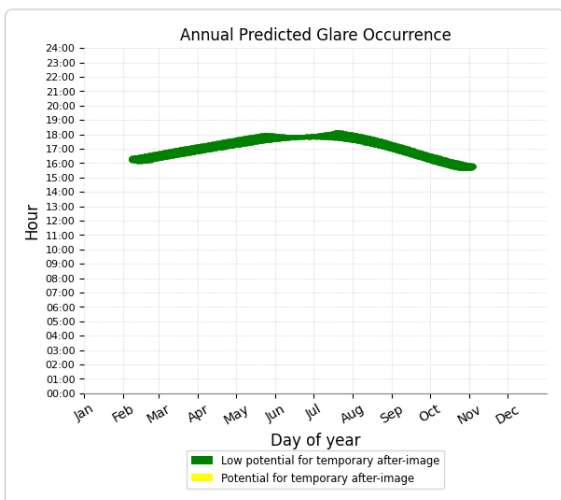
Green glare: 6,122 min.



PV array 5 and Route: Approach_23R

Yellow glare: none

Green glare: 6,178 min.



PV array 5 and Route: 1000Ft-GA_5R23L_05R-L_23L-R

No glare found

PV array 5 and Route: Approach_05L

No glare found

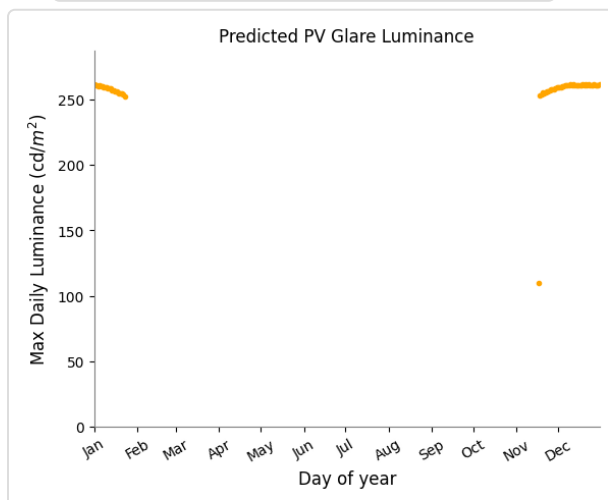
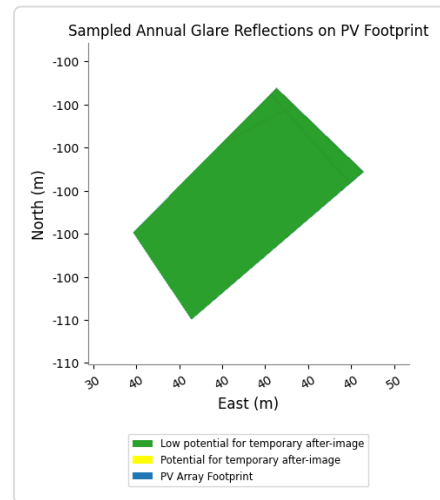
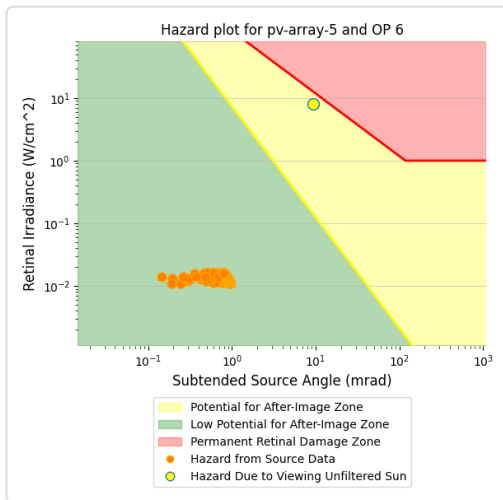
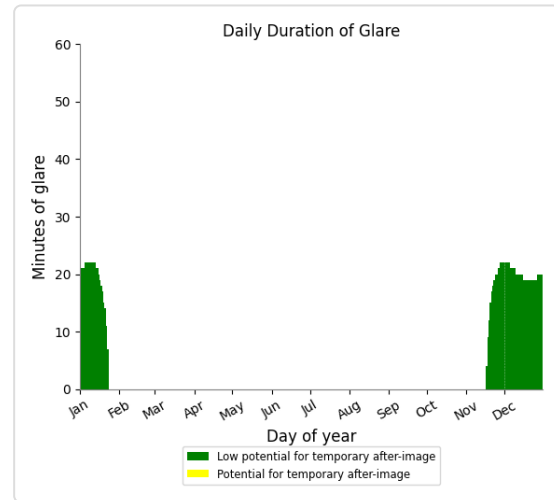
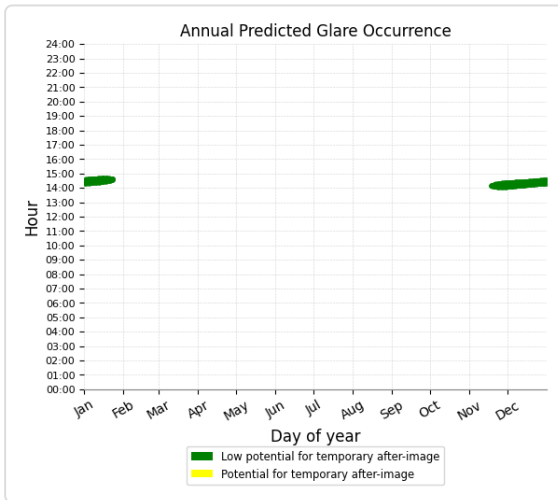
PV array 5 and Route: Approach_05R

No glare found

PV array 5 and OP 6

Yellow glare: none

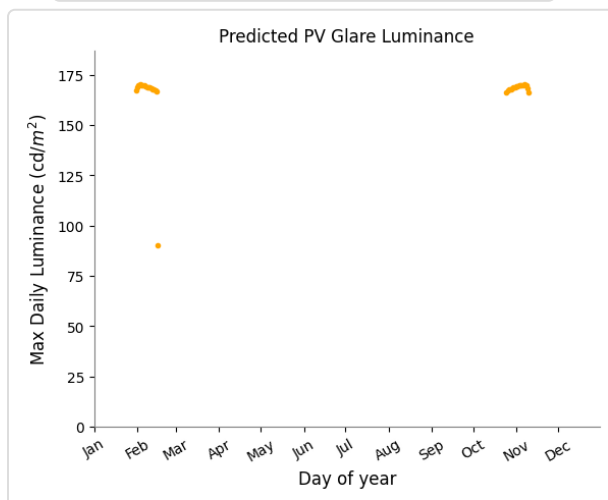
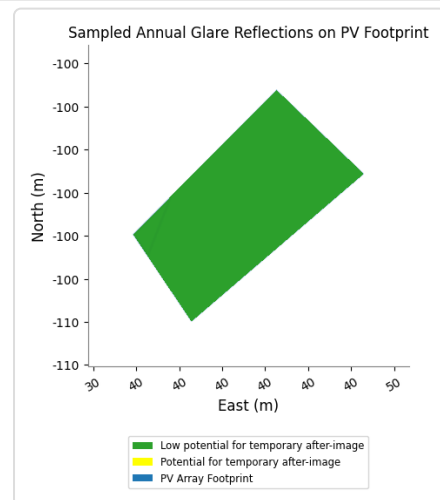
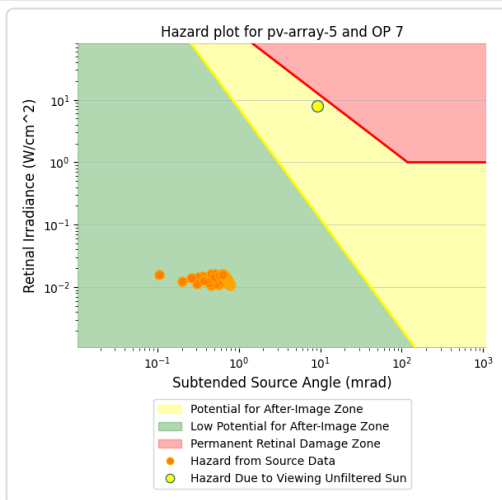
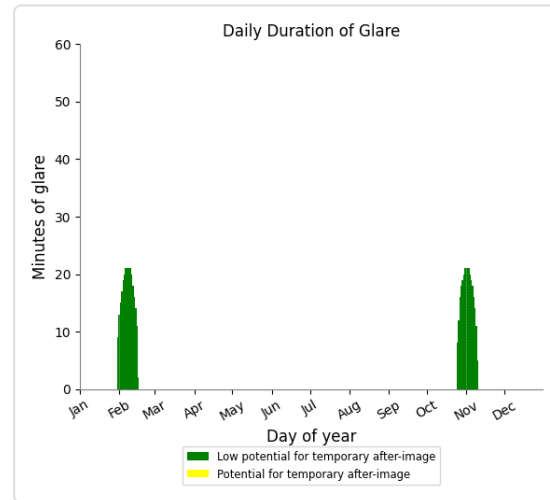
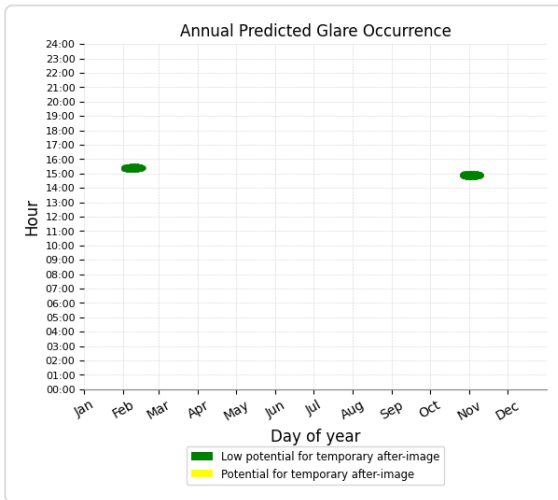
Green glare: 1,309 min.



PV array 5 and OP 7

Yellow glare: none

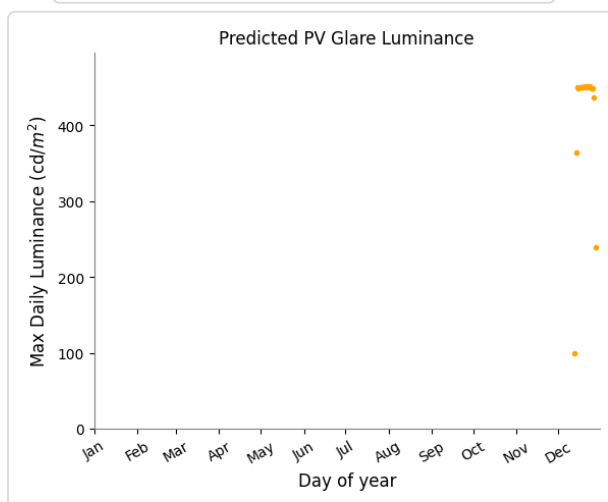
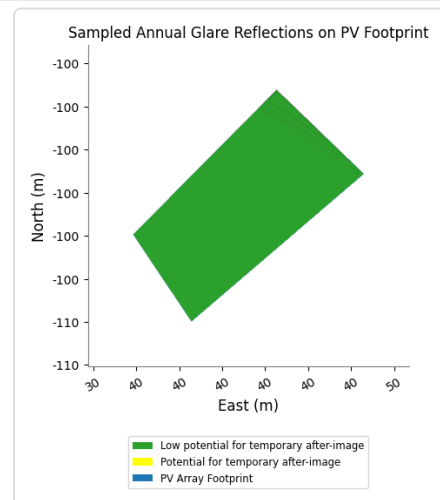
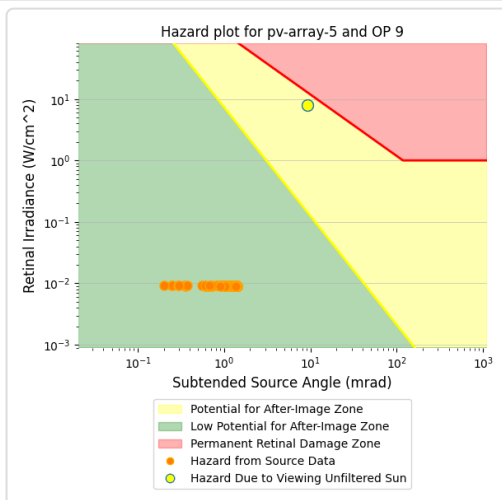
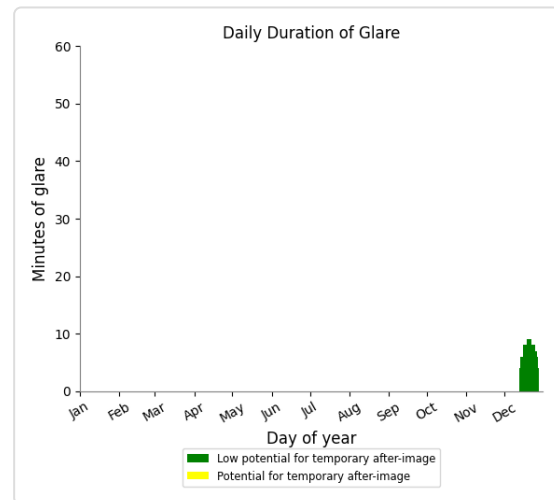
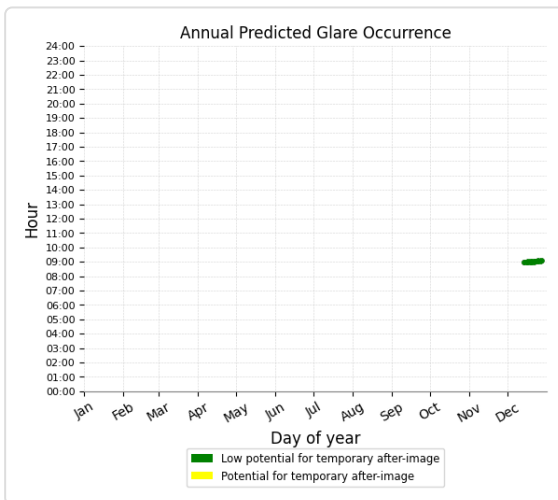
Green glare: 559 min.



PV array 5 and OP 9

Yellow glare: none

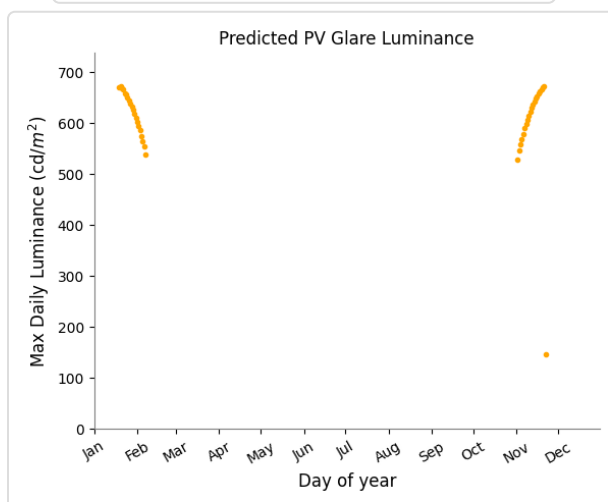
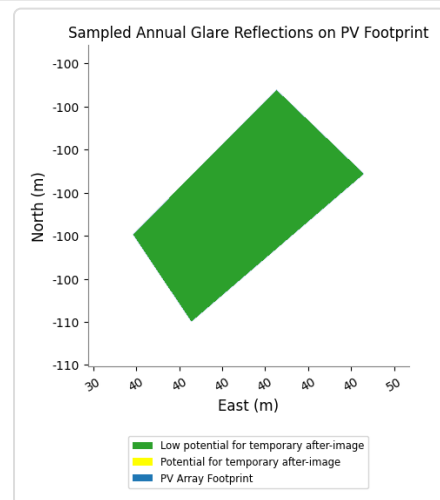
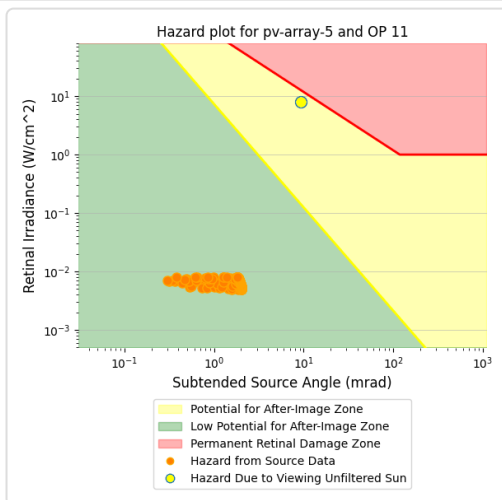
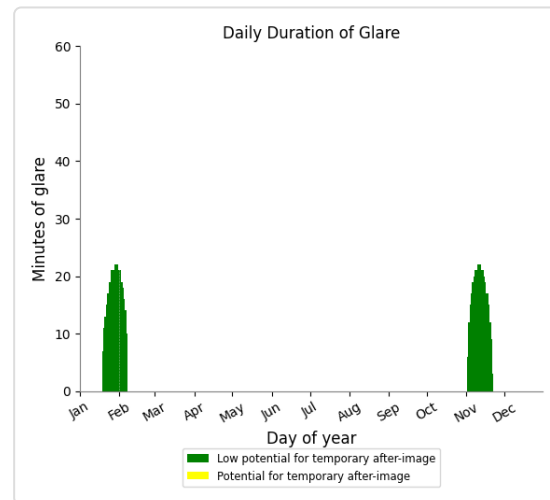
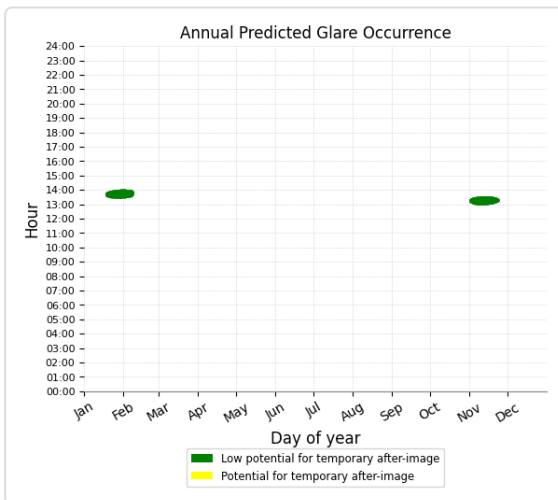
Green glare: 117 min.



PV array 5 and OP 11

Yellow glare: none

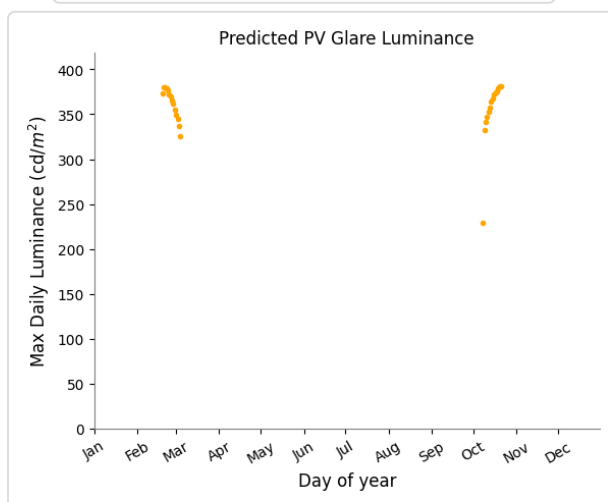
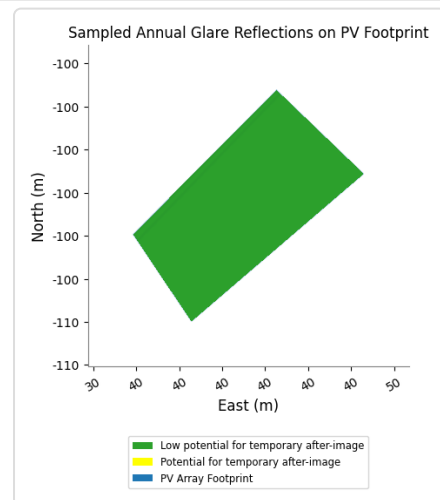
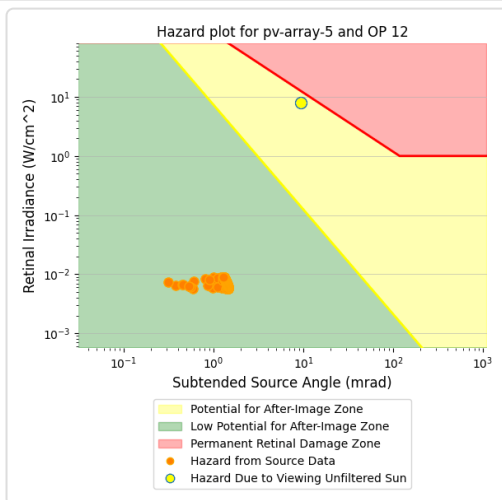
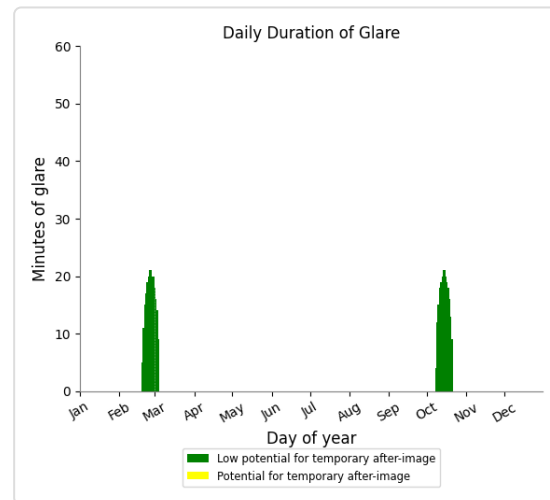
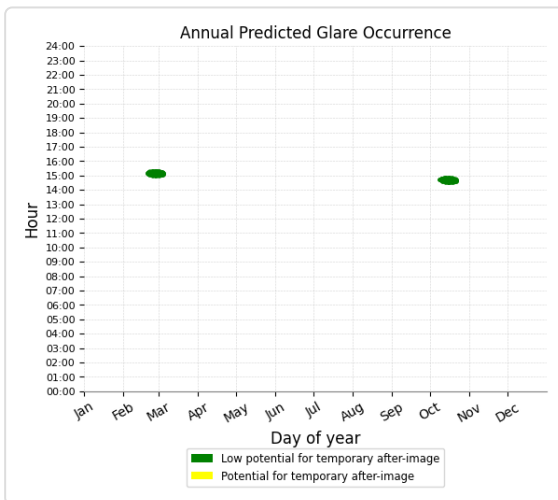
Green glare: 700 min.



PV array 5 and OP 12

Yellow glare: none

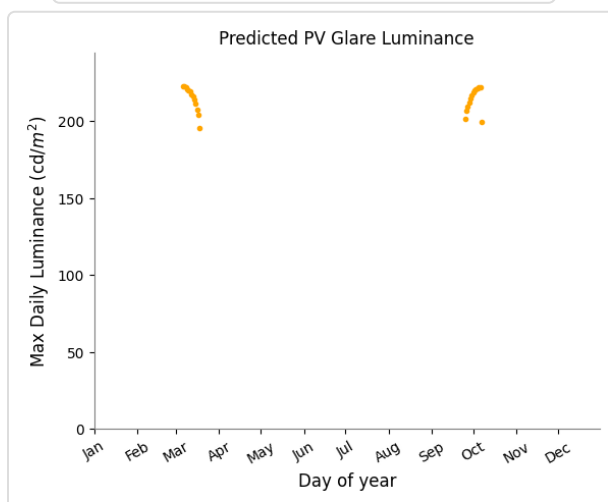
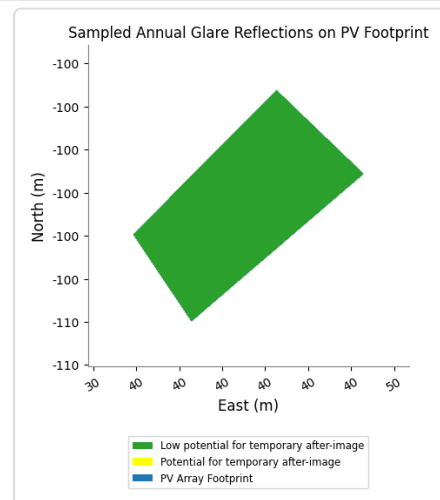
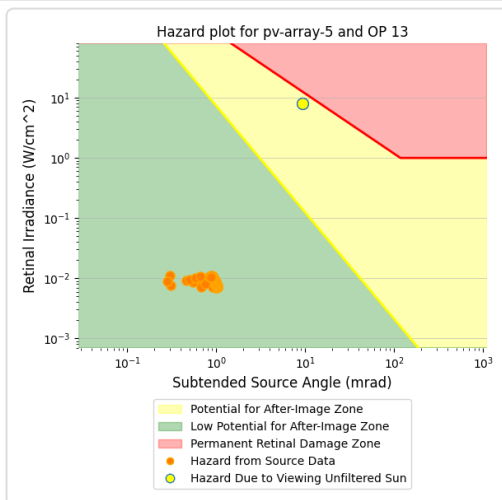
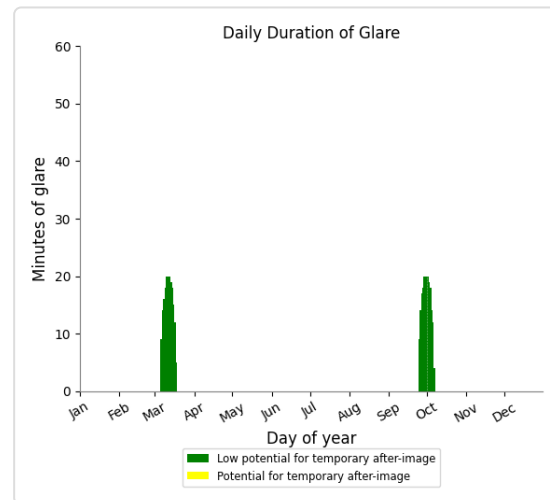
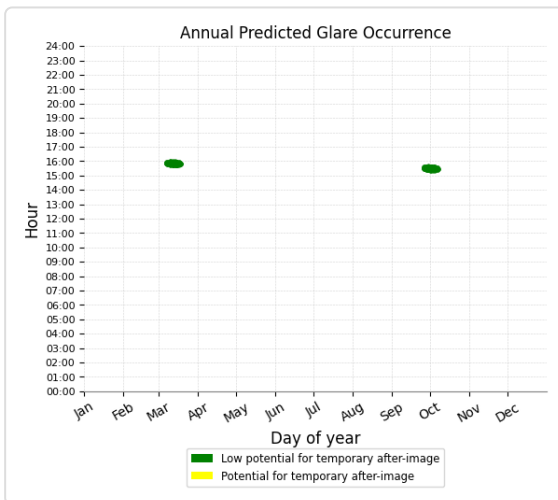
Green glare: 451 min.



PV array 5 and OP 13

Yellow glare: none

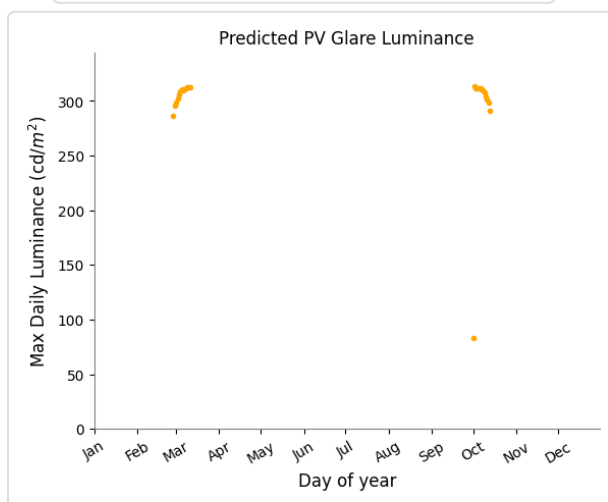
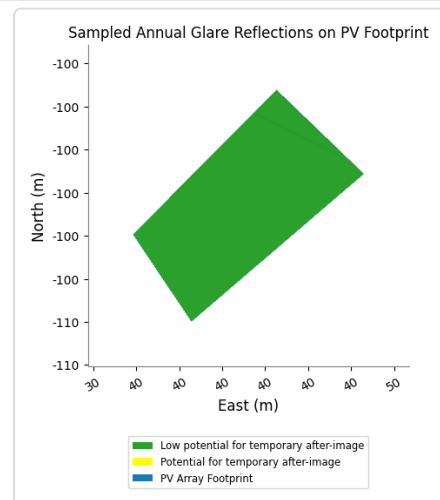
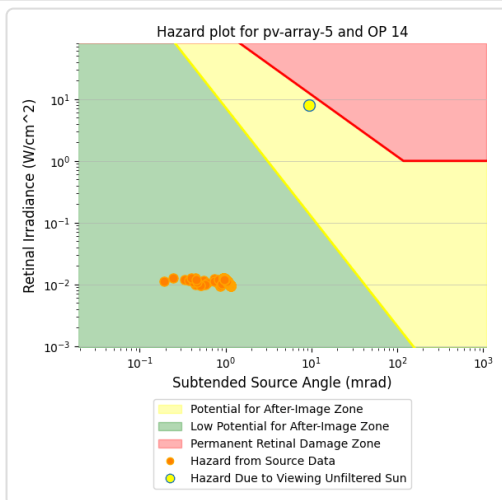
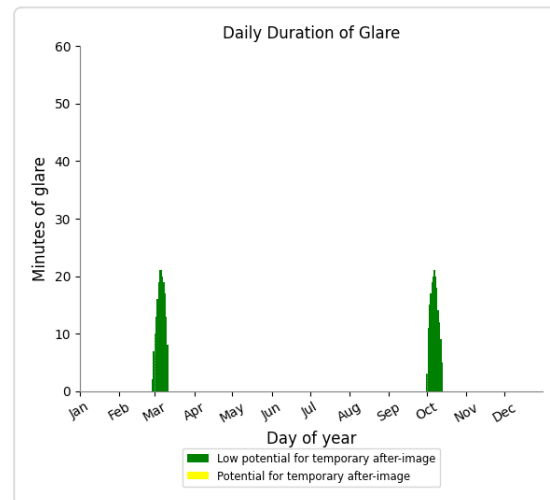
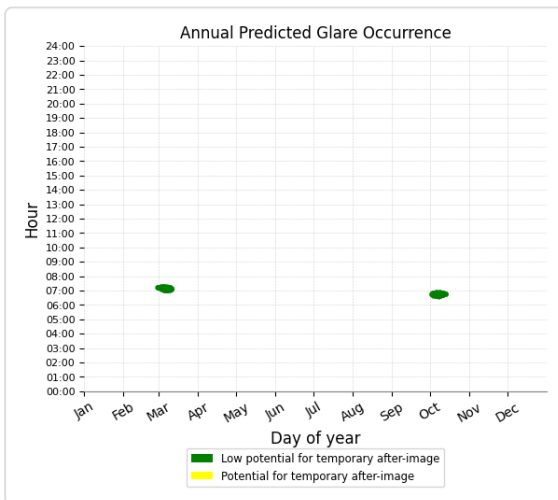
Green glare: 411 min.



PV array 5 and OP 14

Yellow glare: none

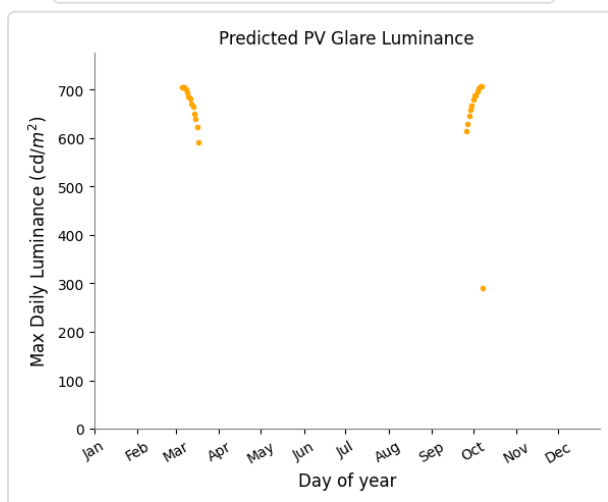
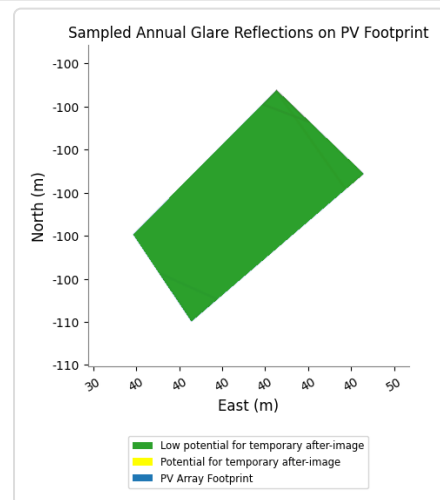
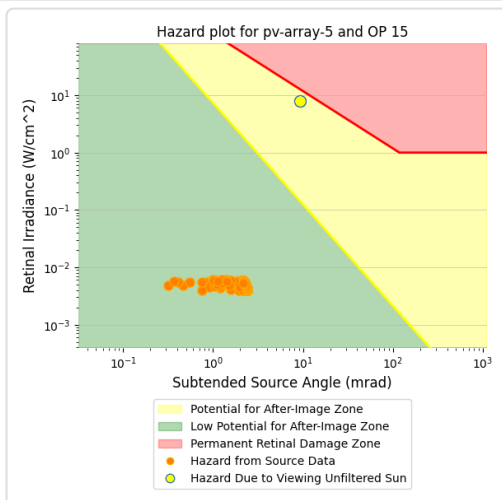
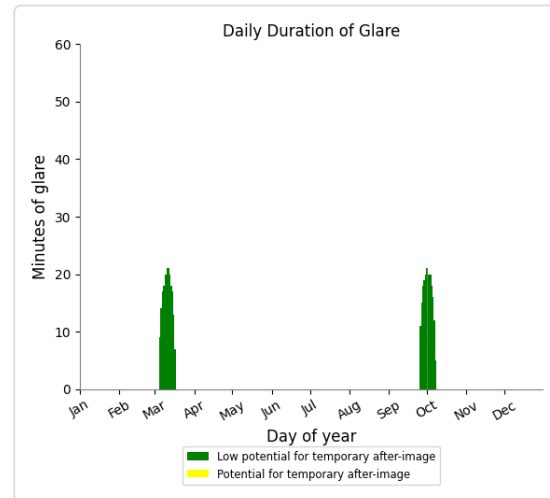
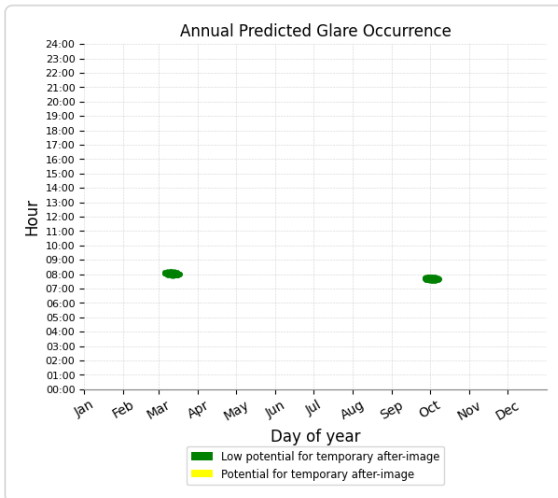
Green glare: 370 min.



PV array 5 and OP 15

Yellow glare: none

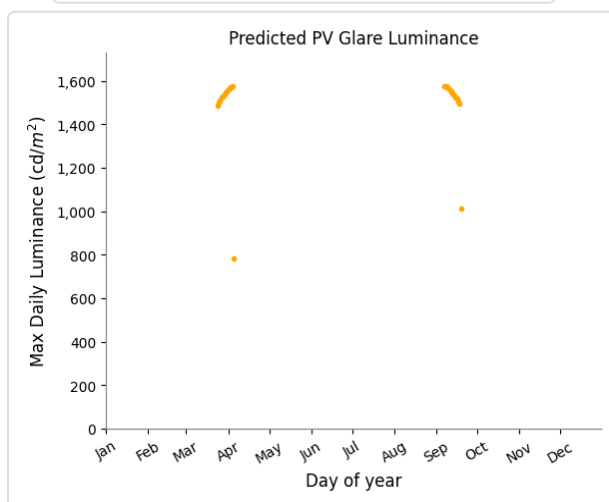
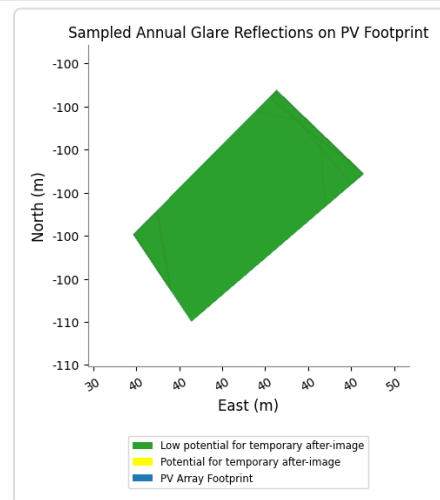
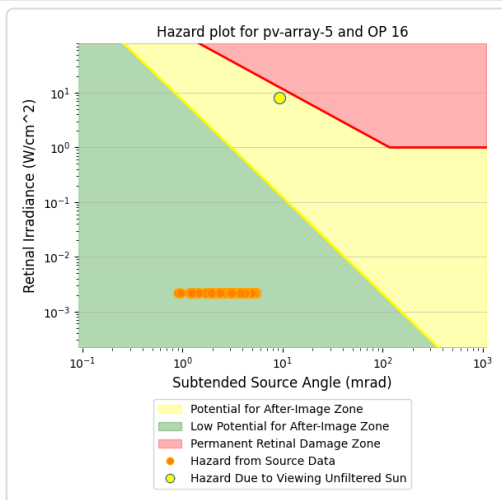
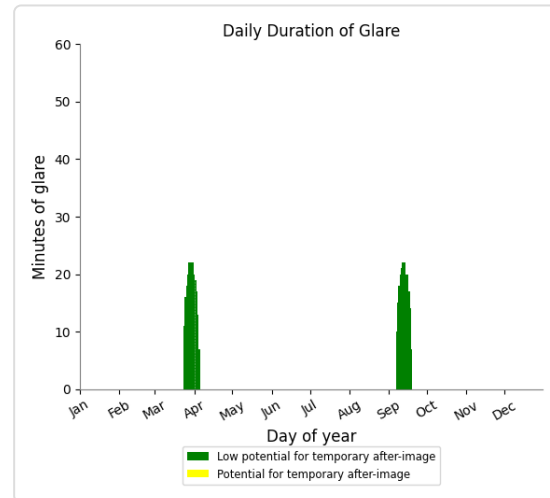
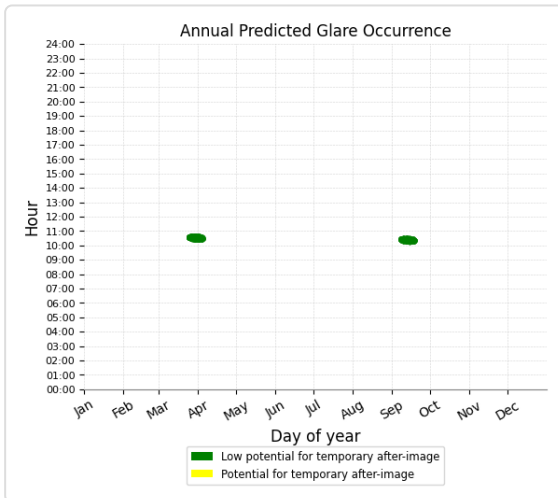
Green glare: 430 min.



PV array 5 and OP 16

Yellow glare: none

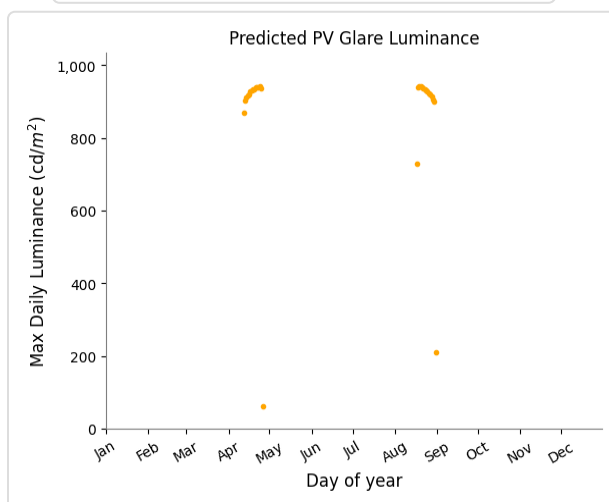
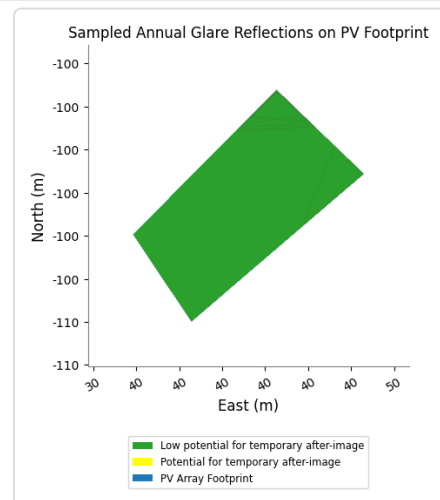
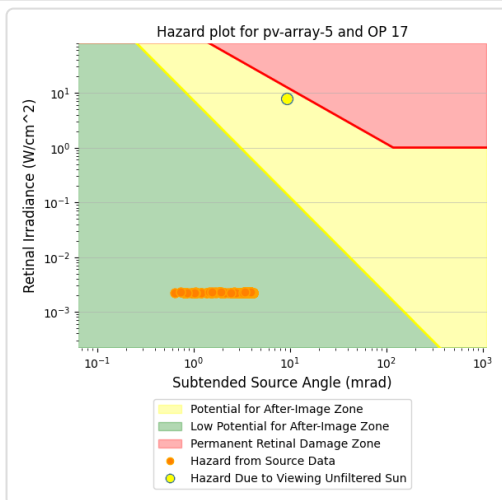
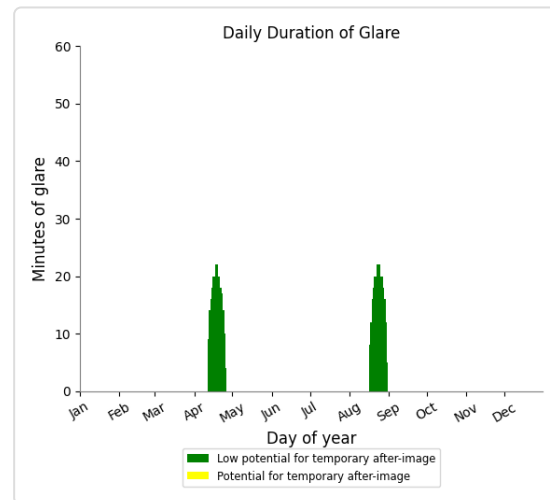
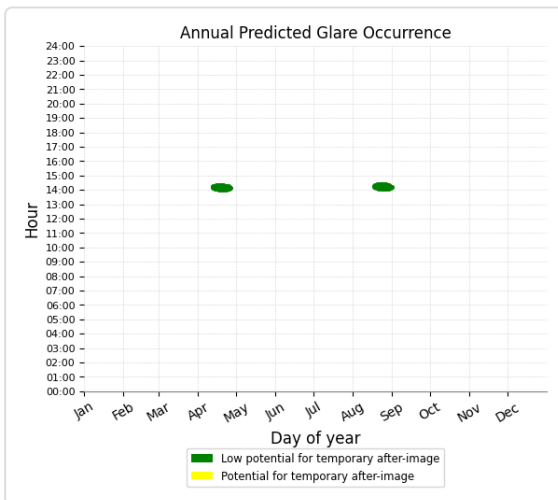
Green glare: 457 min.



PV array 5 and OP 17

Yellow glare: none

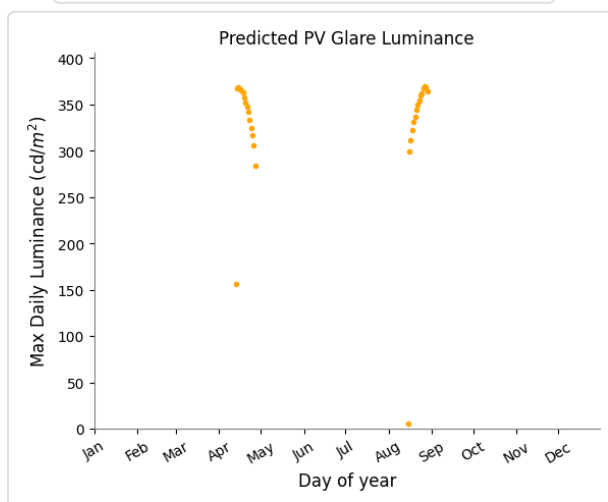
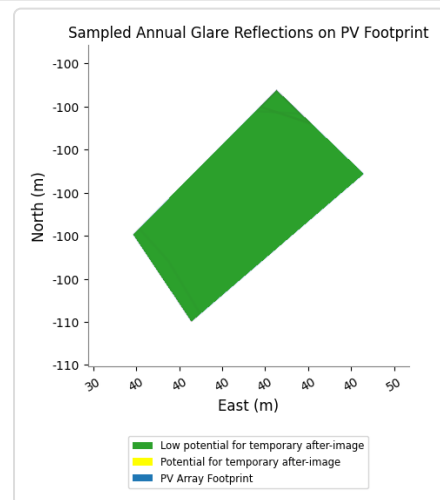
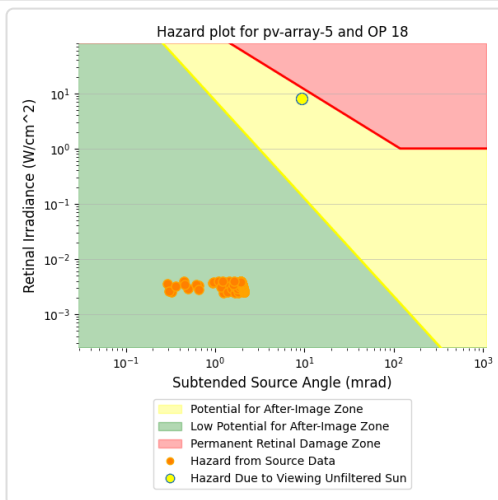
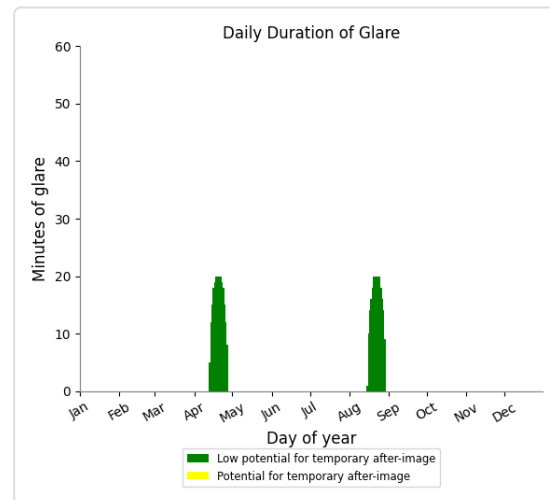
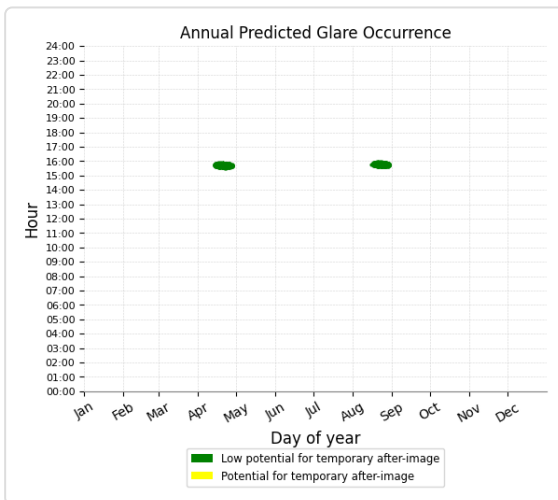
Green glare: 495 min.



PV array 5 and OP 18

Yellow glare: none

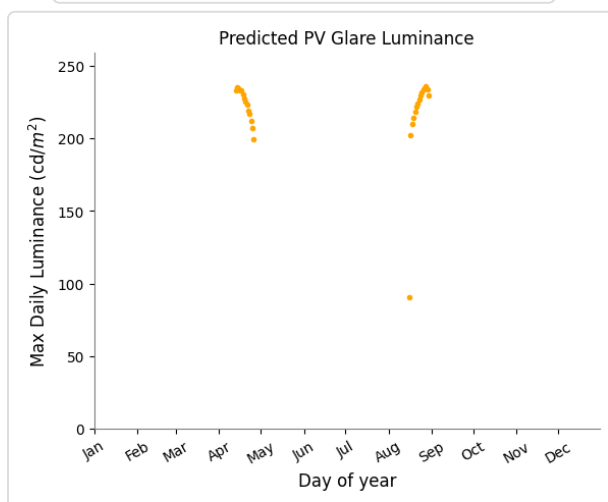
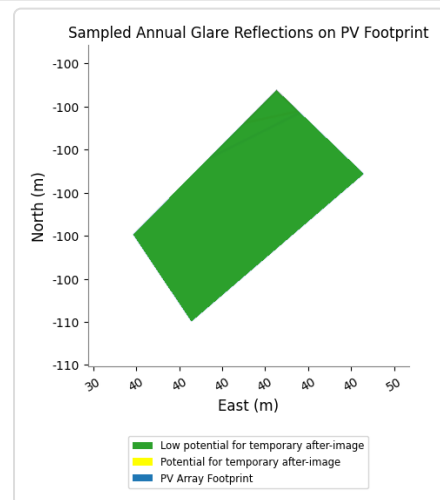
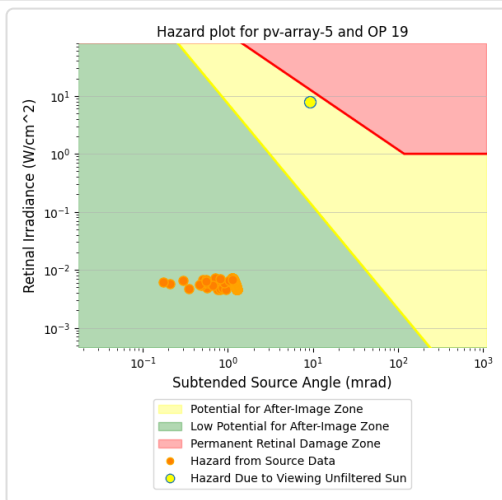
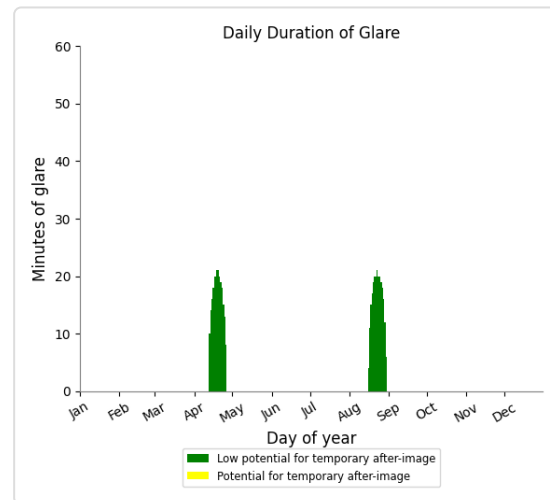
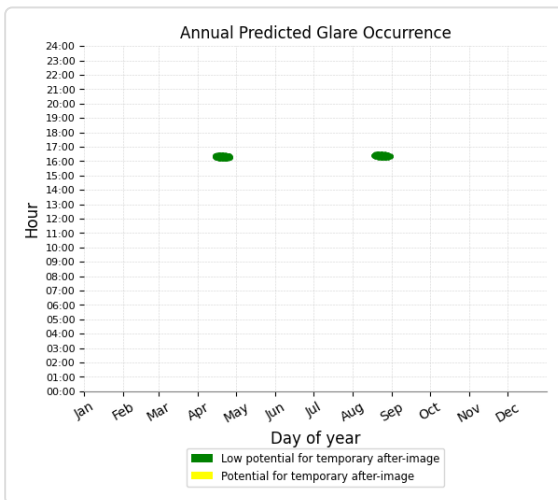
Green glare: 477 min.



PV array 5 and OP 19

Yellow glare: none

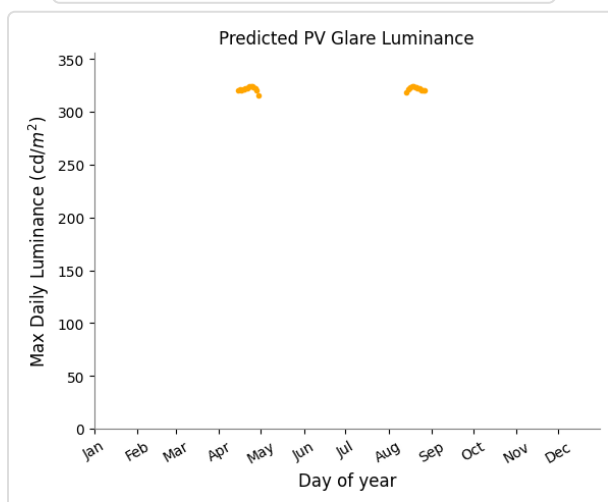
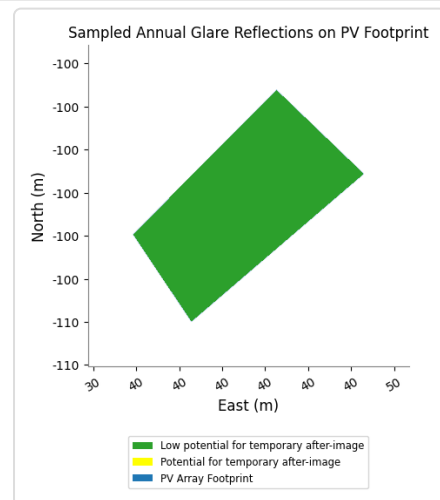
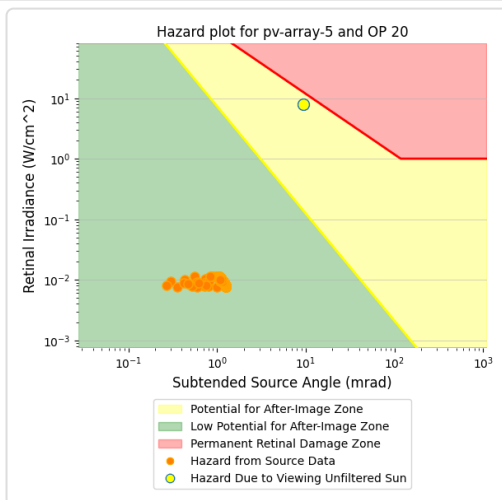
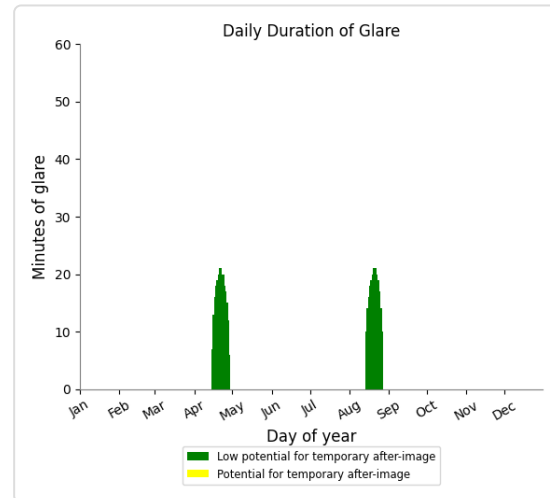
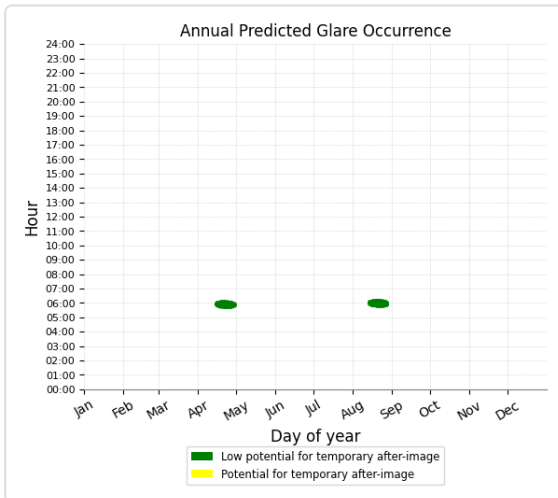
Green glare: 471 min.



PV array 5 and OP 20

Yellow glare: none

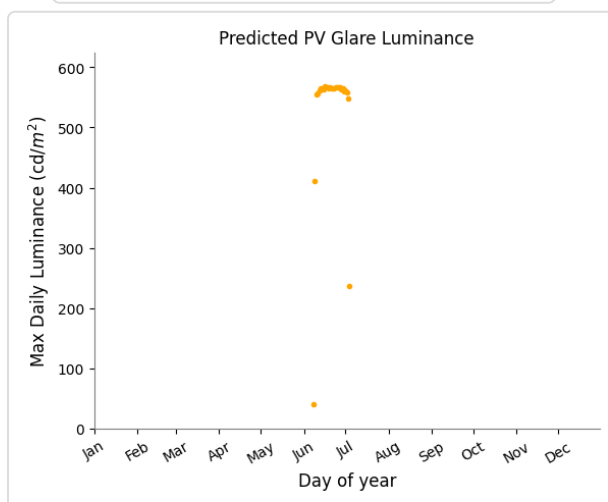
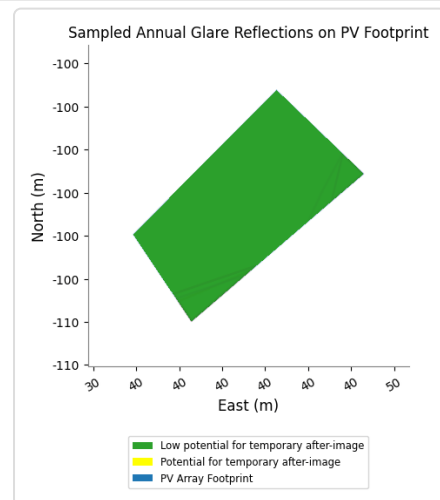
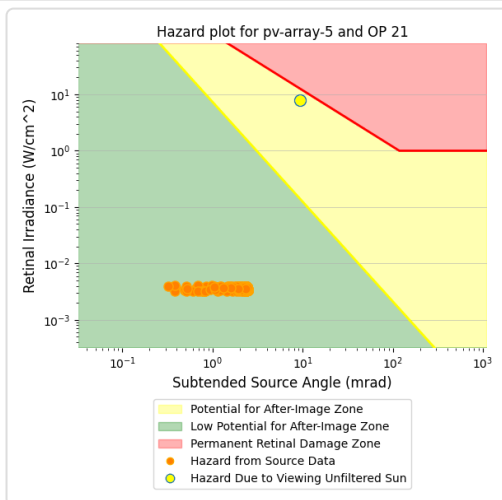
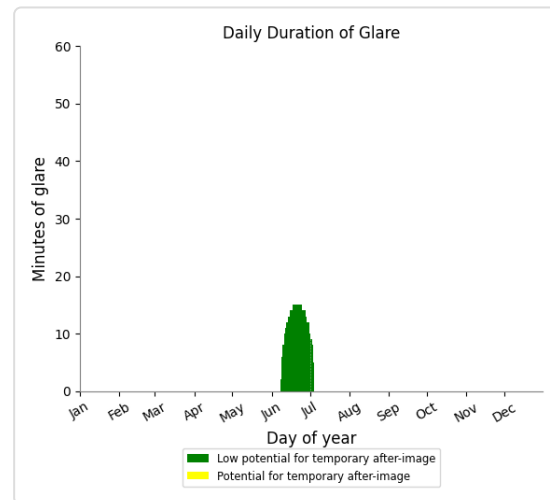
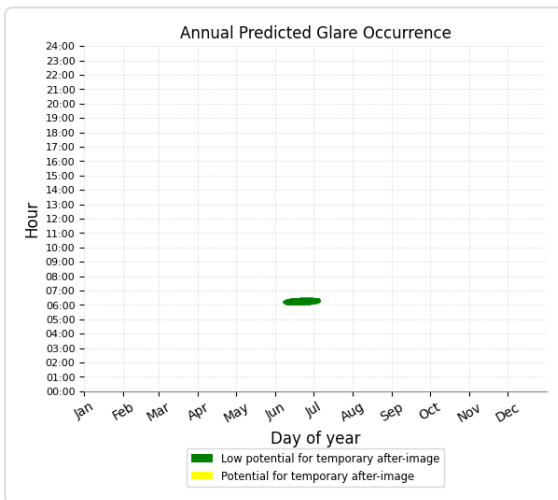
Green glare: 483 min.



PV array 5 and OP 21

Yellow glare: none

Green glare: 319 min.



PV array 5 and 1-ATCT

No glare found

PV array 5 and OP 2

No glare found

PV array 5 and OP 3

No glare found

PV array 5 and OP 4

No glare found

PV array 5 and OP 5

No glare found

PV array 5 and OP 8

No glare found

PV array 5 and OP 10

No glare found

PV array 5 and OP 22

No glare found

PV array 5 and OP 23

No glare found

PV array 5 and OP 24

No glare found

PV array 5 and OP 25

No glare found

PV array 5 and OP 26

No glare found

PV array 5 and OP 27

No glare found

PV array 5 and OP 28

No glare found

PV array 5 and OP 29

No glare found

PV array 5 and OP 30

No glare found

PV array 5 and OP 31

No glare found

PV array 5 and OP 32

No glare found

PV array 5 and OP 33

No glare found

PV array 5 and OP 34

No glare found

PV array 5 and OP 35

No glare found

PV array 5 and OP 36

No glare found

PV array 5 and OP 37

No glare found

PV array 5 and OP 38

No glare found

PV array 5 and OP 39

No glare found

PV array 5 and OP 40

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.

Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.

The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.

Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.

Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.

The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.

The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)

The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.

The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.

The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.

Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.

Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.

Refer to the Help page at www.forgesolar.com/help/ for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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