

APPENDIX C

RESULTS FOR NORTHWEST-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	317.0	41,985	699.8	0	0.0	-	58,526
PV array 2	10.0	317.0	37,670	627.8	0	0.0	-	2,324
PV array 3	10.0	317.0	37,988	633.1	0	0.0	-	3,716
PV array 4	10.0	317.0	45,054	750.9	0	0.0	-	82,442
PV array 5	10.0	317.0	38,364	639.4	0	0.0	-	3,723

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	0	0.0	0	0.0
1000Ft- GA_5L23R_05L- R_23R-L	26,089	434.8	0	0.0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0
1000Ft- GA_5R23L_05R- R_23L-L	13,334	222.2	0	0.0
1500Ft- CA_5L23R_05L- L_23R-R	0	0.0	0	0.0
1500Ft- CA_5L23R_05L- R_23R-L	110,734	1,845.6	0	0.0
Approach_05L	0	0.0	0	0.0
Approach_05R	0	0.0	0	0.0
Approach_23L	806	13.4	0	0.0
Approach_23R	1,333	22.2	0	0.0
1-ATCT	0	0.0	0	0.0
OP 2	2,238	37.3	0	0.0
OP 3	2,269	37.8	0	0.0
OP 4	2,248	37.5	0	0.0
OP 5	2,444	40.7	0	0.0
OP 6	2,547	42.5	0	0.0
OP 7	2,584	43.1	0	0.0

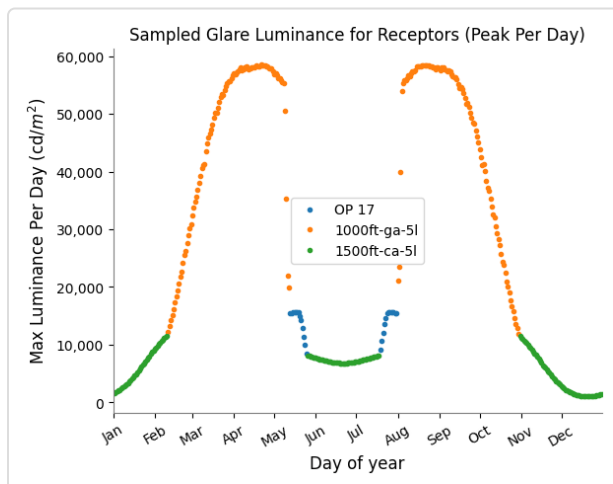
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 8	2,772	46.2	0	0.0
OP 9	2,793	46.5	0	0.0
OP 10	2,598	43.3	0	0.0
OP 11	2,432	40.5	0	0.0
OP 12	2,346	39.1	0	0.0
OP 13	2,342	39.0	0	0.0
OP 14	4,609	76.8	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	4,692	78.2	0	0.0
OP 18	2,426	40.4	0	0.0
OP 19	2,244	37.4	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
OP 22	0	0.0	0	0.0
OP 23	0	0.0	0	0.0
OP 24	3,258	54.3	0	0.0
OP 25	266	4.4	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	157	2.6	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	1,500	25.0	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- R_23R-L	6,029	100.5	0	0.0	58,526
1000Ft- GA_5R23L_05R- R_23L-L	2,357	39.3	0	0.0	47,194
1500Ft- CA_5L23R_05L- R_23R-L	22,213	370.2	0	0.0	13,156
Approach_23L	150	2.5	0	0.0	234
Approach_23R	260	4.3	0	0.0	270
1000Ft- GA_5L23R_05L- L_23R-R	0	0.0	0	0.0	0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
1500Ft- CA_5L23R_05L- L_23R-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 2	502	8.4	0	0.0	4,345
OP 3	517	8.6	0	0.0	5,566
OP 4	507	8.4	0	0.0	6,927
OP 5	532	8.9	0	0.0	7,679
OP 6	538	9.0	0	0.0	6,416
OP 7	543	9.1	0	0.0	4,175
OP 8	645	10.8	0	0.0	5,243
OP 9	675	11.2	0	0.0	6,787
OP 10	627	10.4	0	0.0	10,616
OP 11	555	9.2	0	0.0	10,048
OP 12	517	8.6	0	0.0	8,905
OP 13	498	8.3	0	0.0	5,100
OP 14	813	13.6	0	0.0	6,155
OP 17	1,263	21.1	0	0.0	15,661
OP 18	564	9.4	0	0.0	11,084
OP 19	495	8.2	0	0.0	5,526

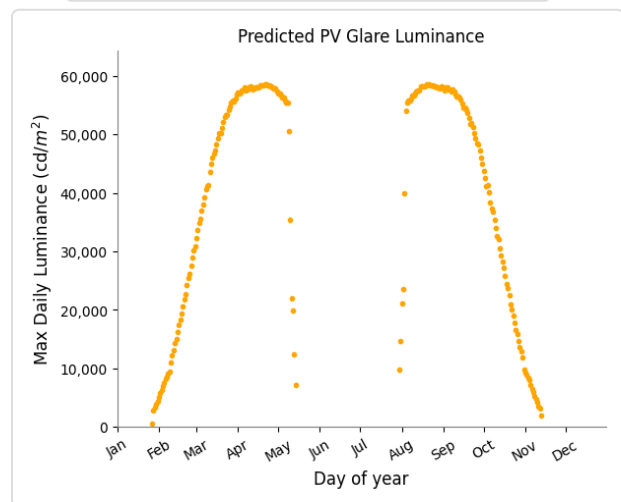
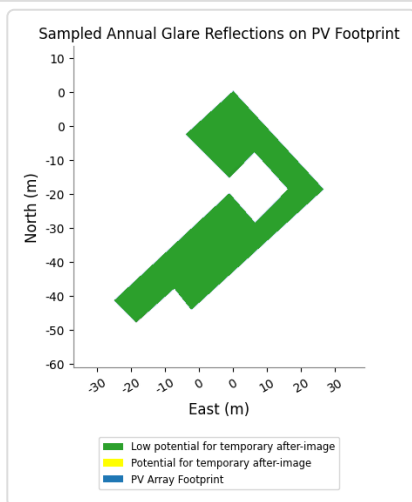
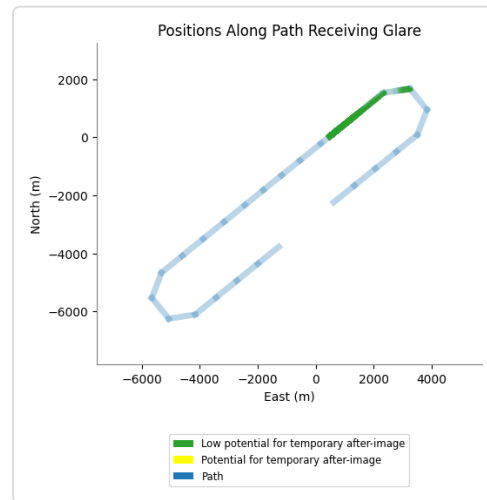
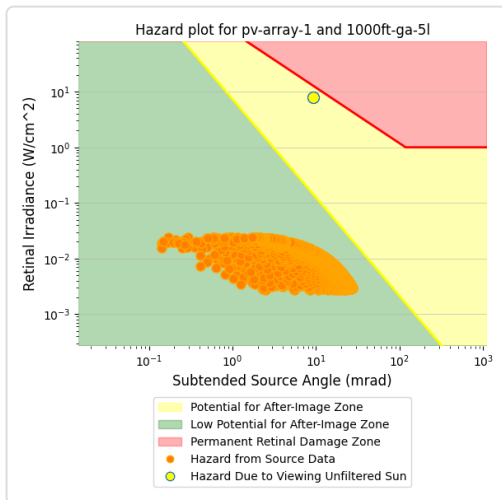
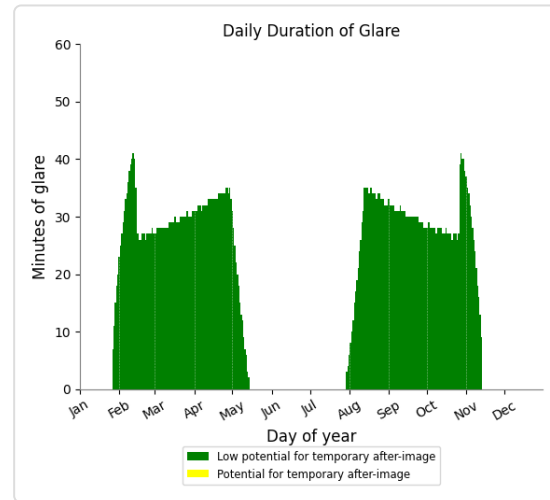
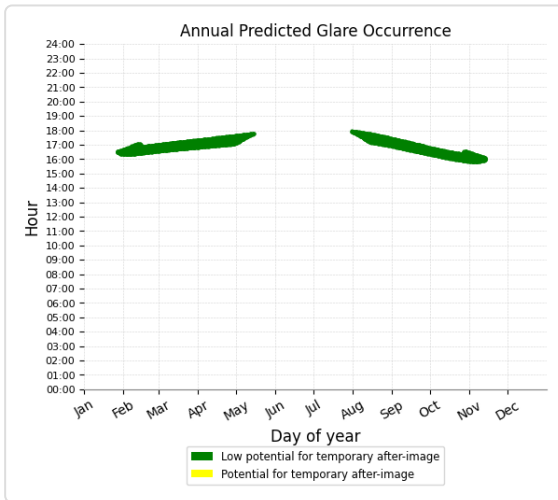
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 24	777	12.9	0	0.0	10,044
OP 25	42	0.7	0	0.0	4,823
OP 38	366	6.1	0	0.0	22,680
1-ATCT	0	0.0	0	0.0	0
OP 15	0	0.0	0	0.0	0
OP 16	0	0.0	0	0.0	0
OP 20	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 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 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-R_23R-L

Yellow glare: none

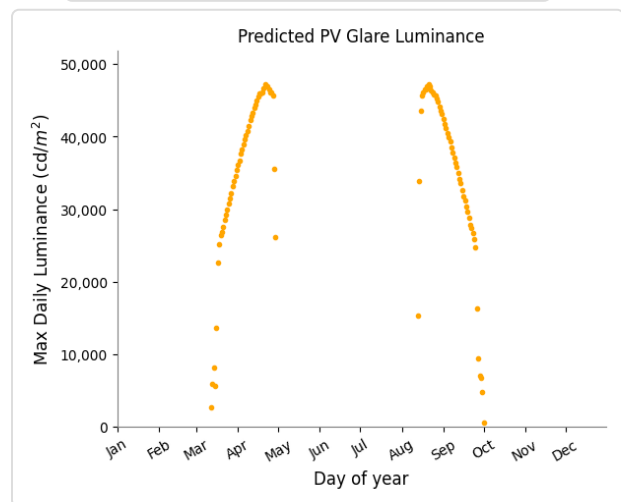
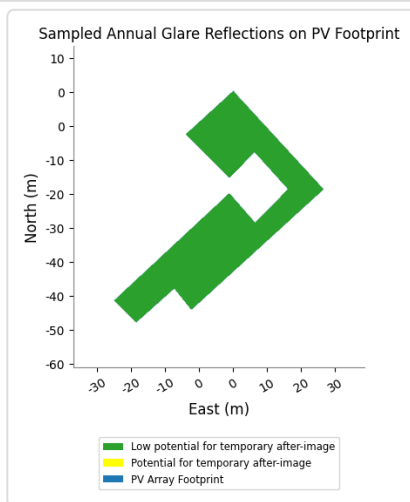
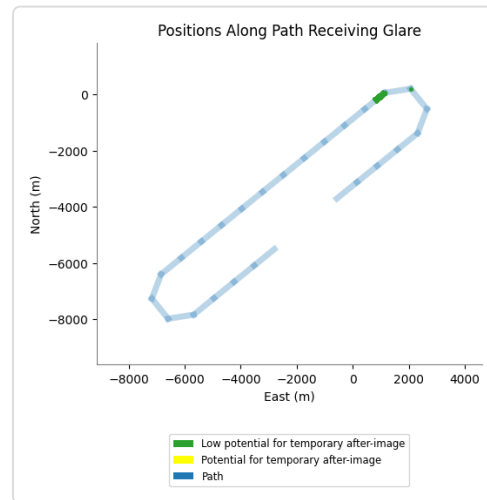
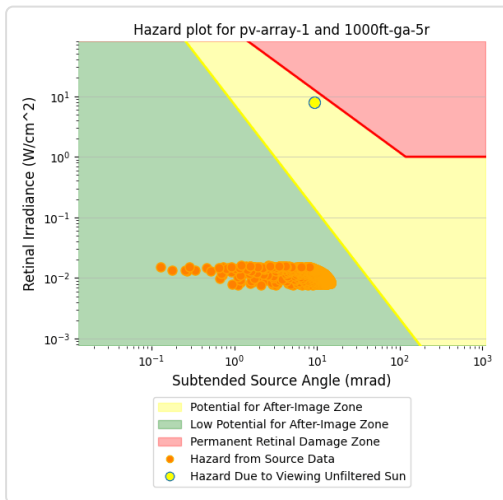
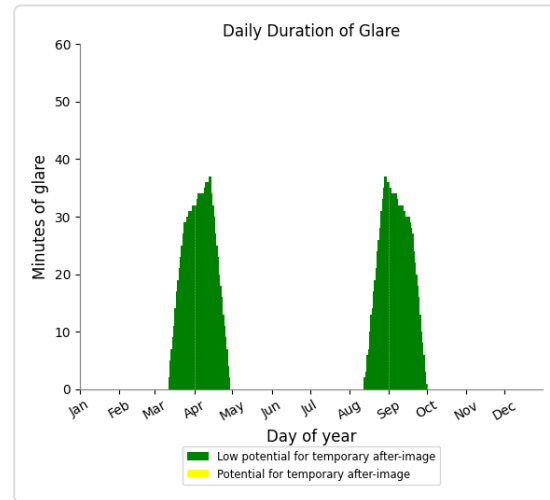
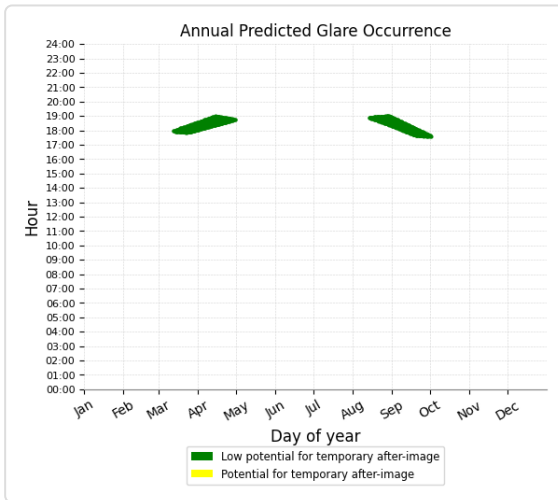
Green glare: 6,029 min.



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

Yellow glare: none

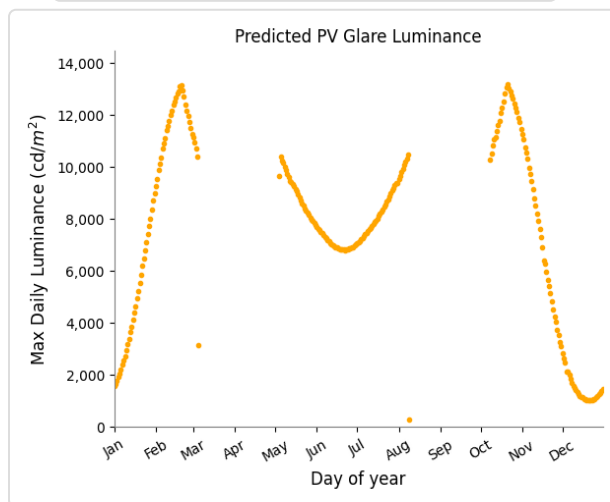
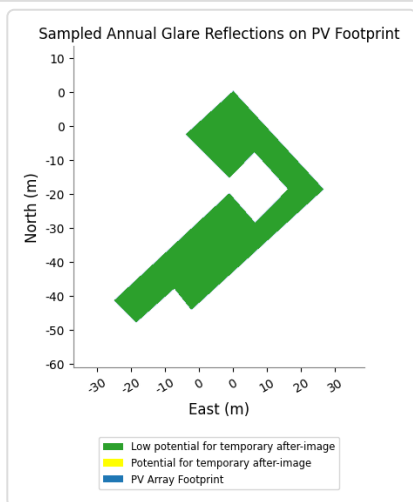
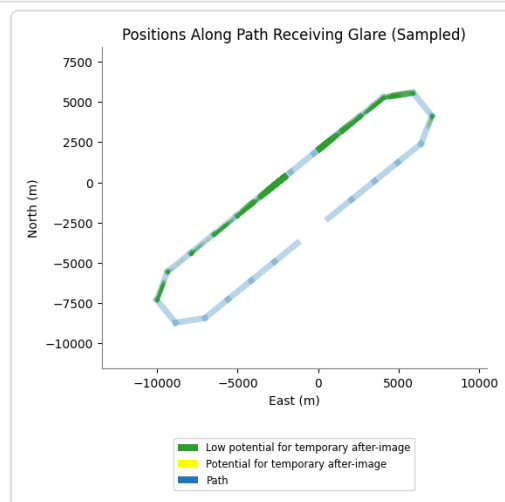
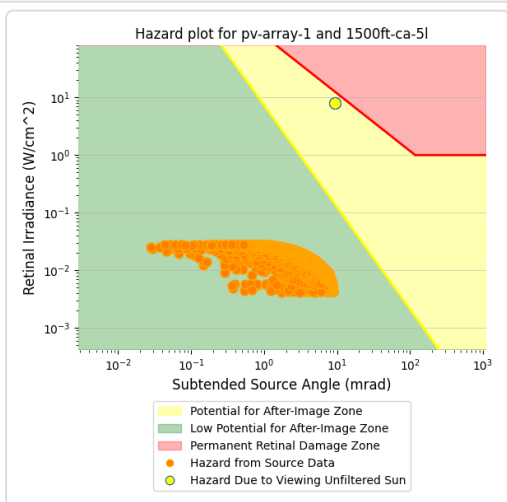
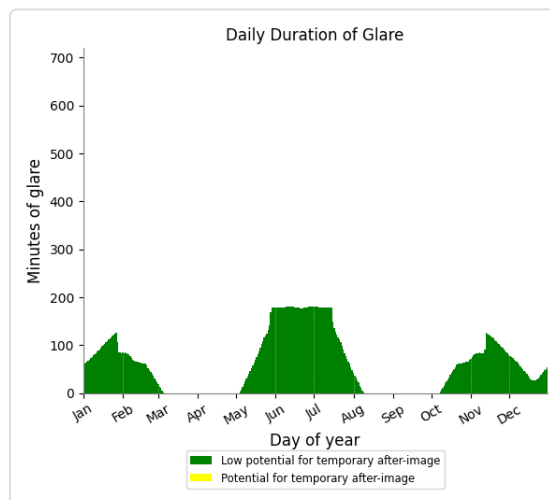
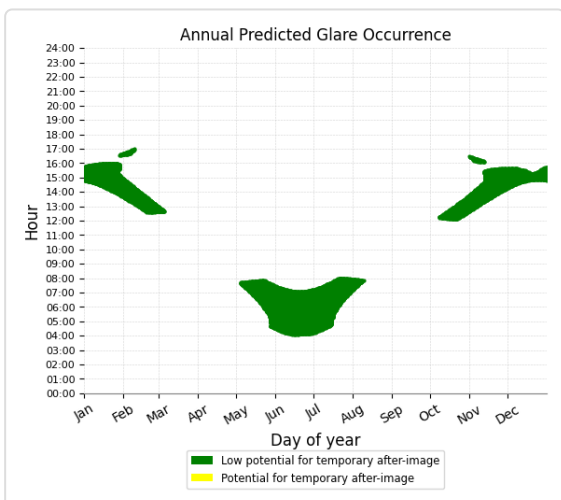
Green glare: 2,357 min.



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

Yellow glare: none

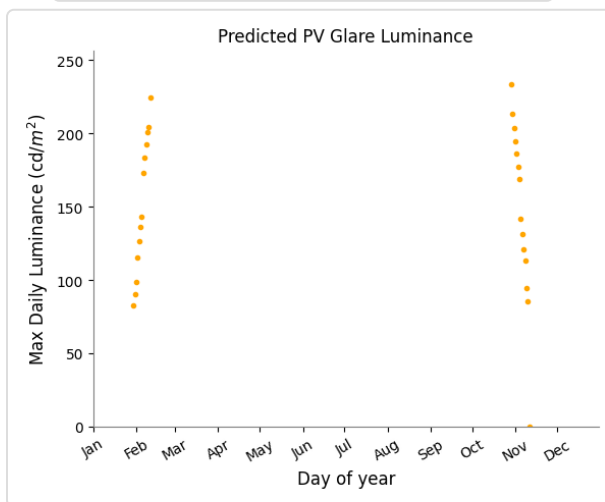
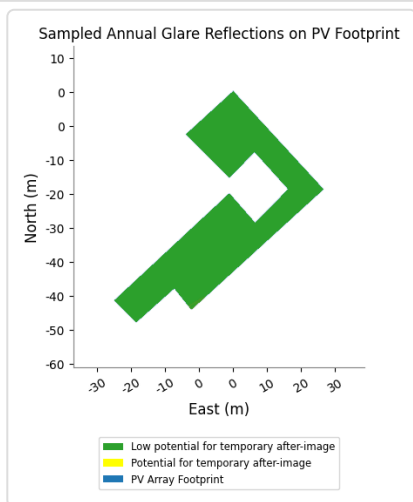
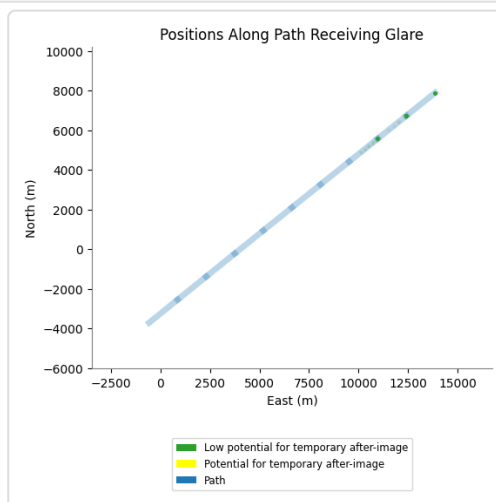
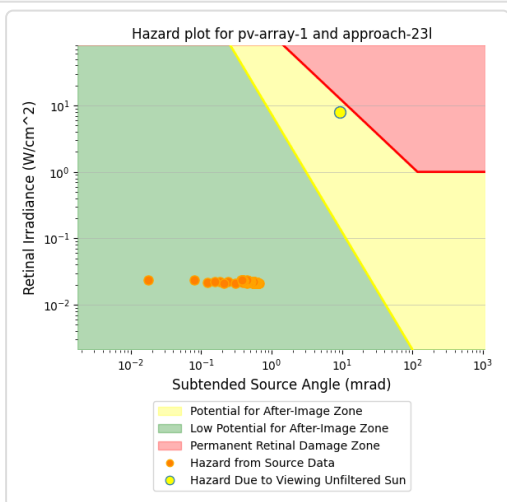
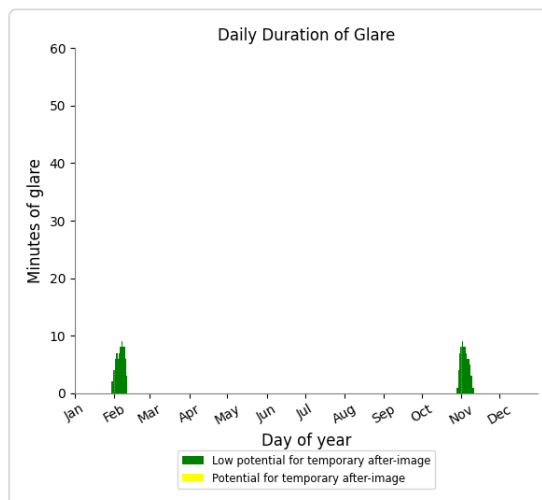
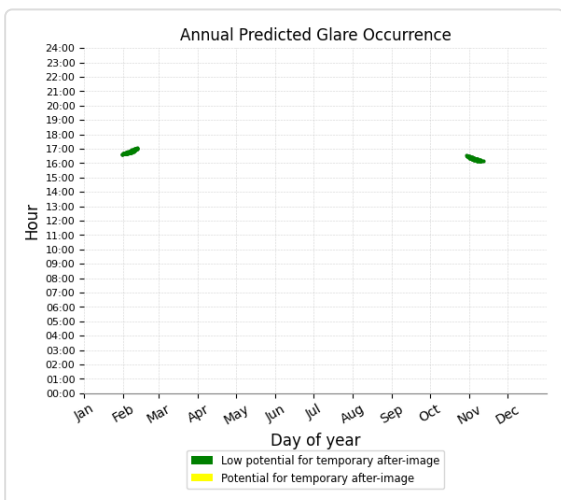
Green glare: 22,213 min.



PV array 1 and Route: Approach_23L

Yellow glare: none

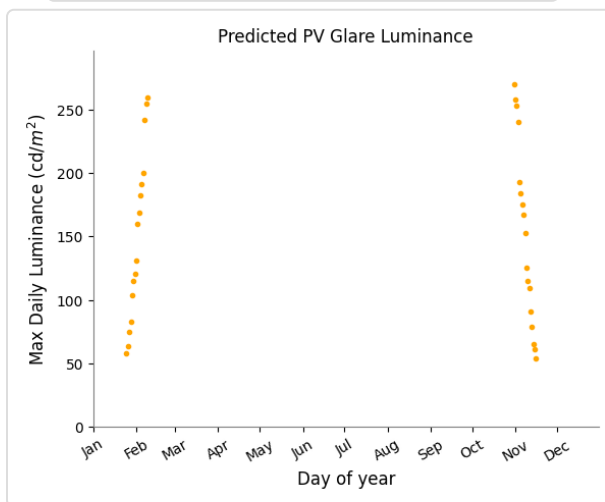
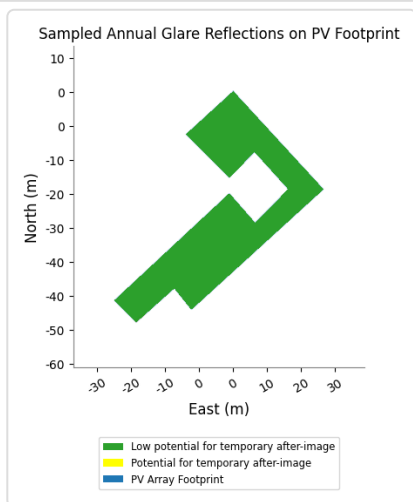
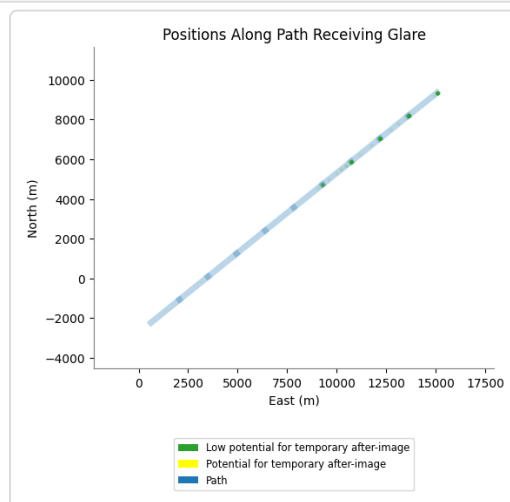
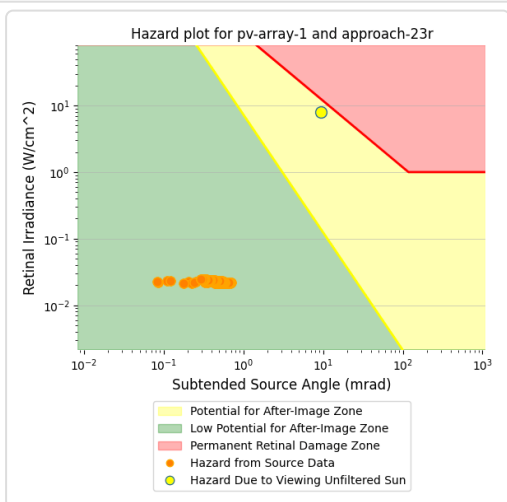
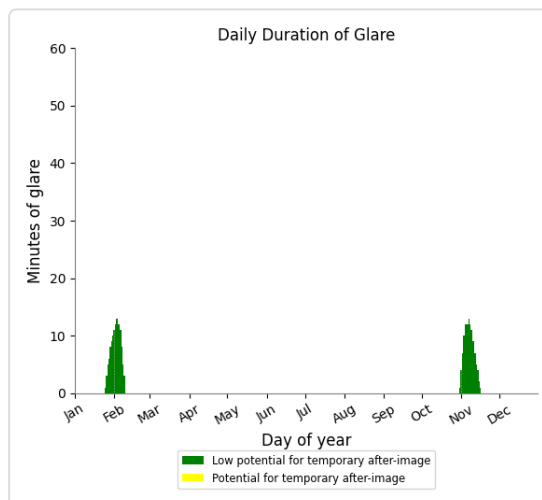
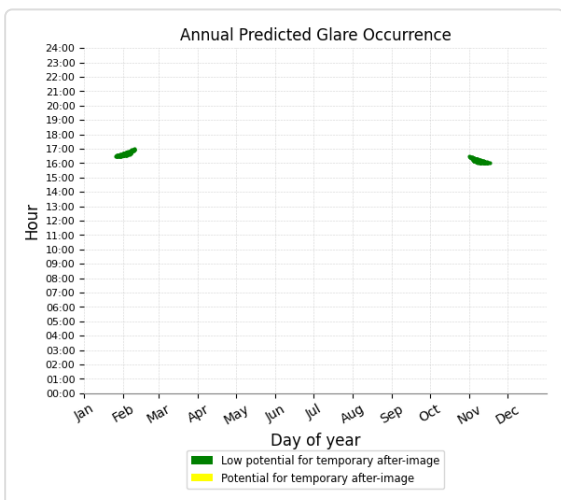
Green glare: 150 min.



PV array 1 and Route: Approach_23R

Yellow glare: none

Green glare: 260 min.



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

No glare found

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

No glare found

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

No glare found

PV array 1 and Route: Approach_05L

No glare found

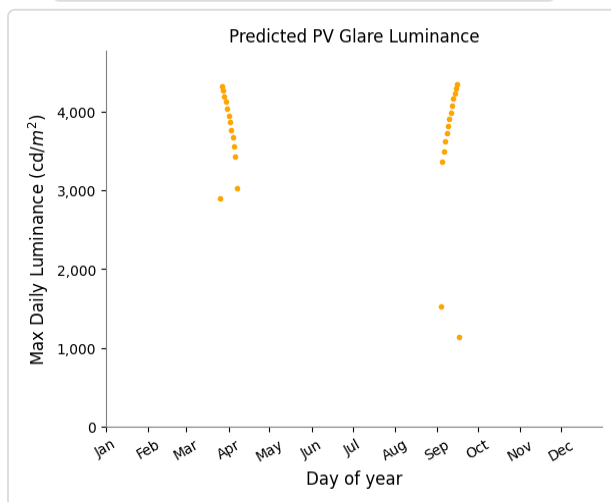
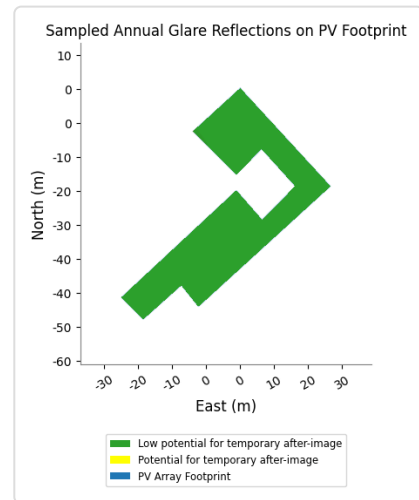
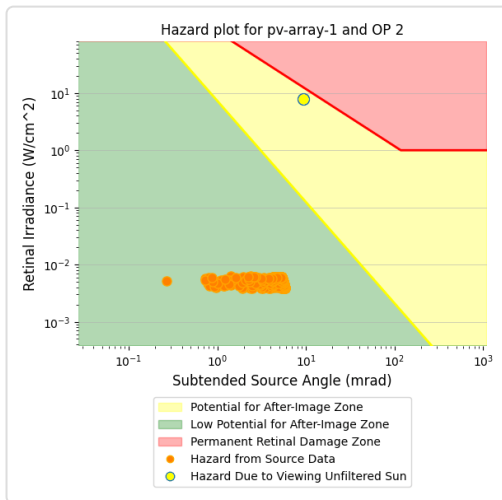
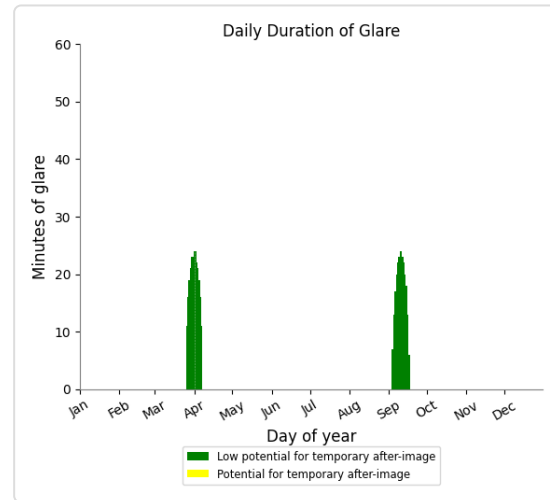
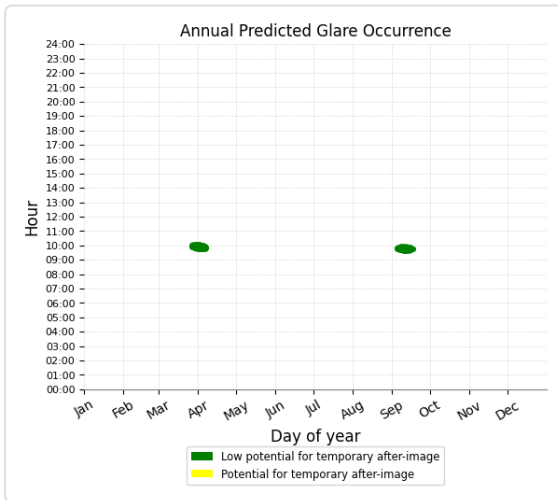
PV array 1 and Route: Approach_05R

No glare found

PV array 1 and OP 2

Yellow glare: none

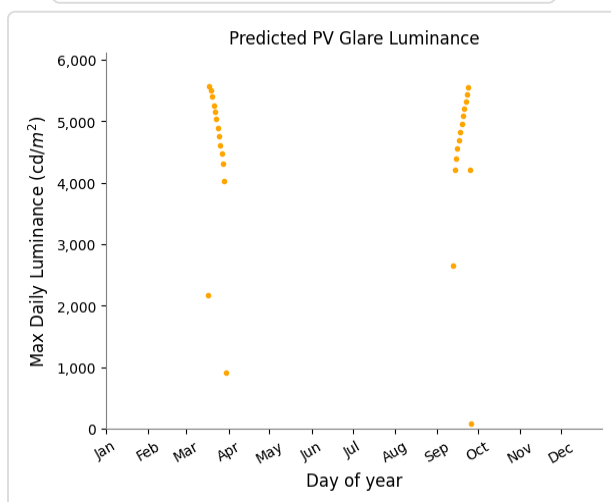
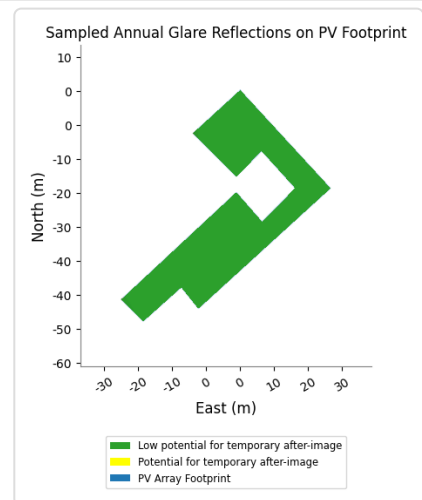
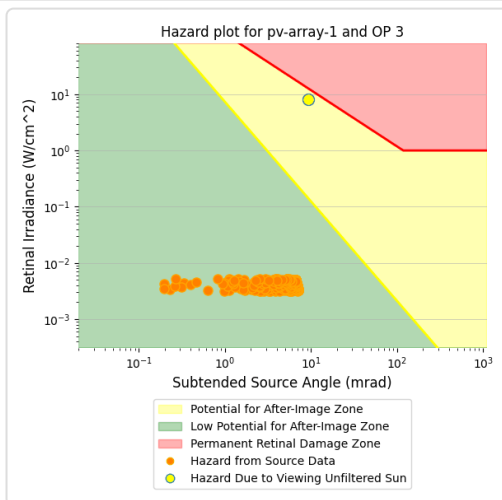
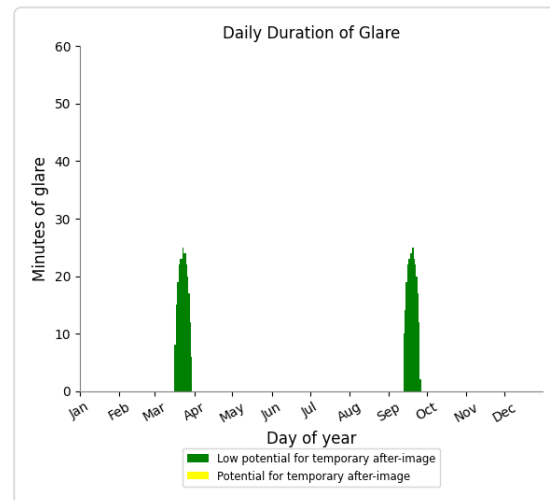
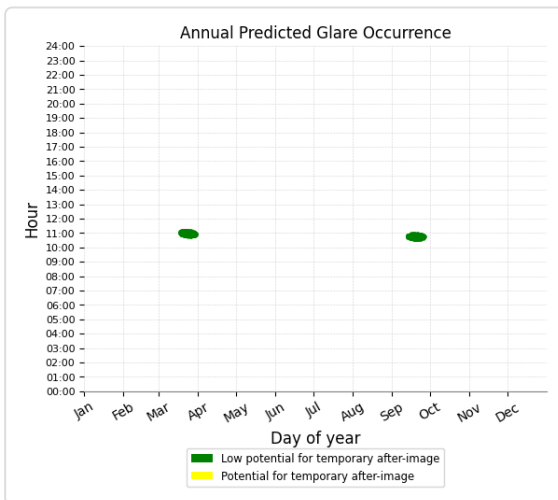
Green glare: 502 min.



PV array 1 and OP 3

Yellow glare: none

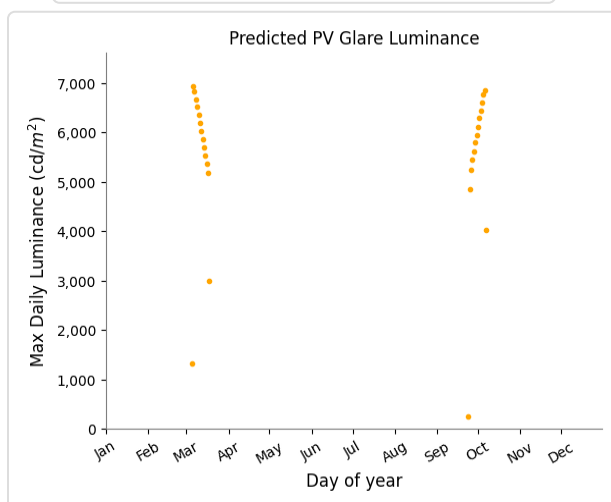
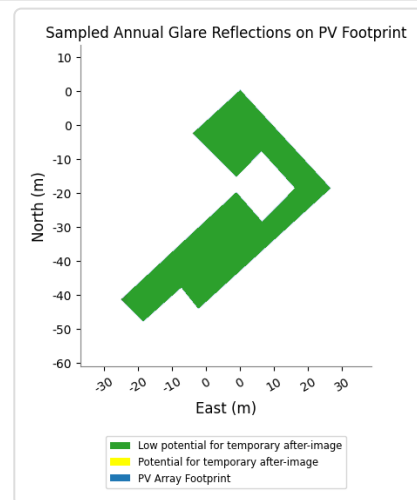
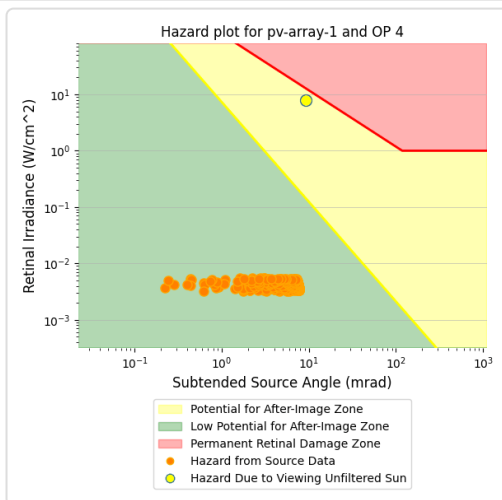
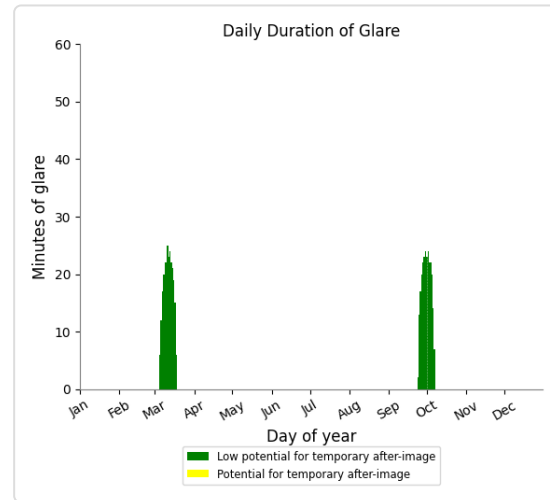
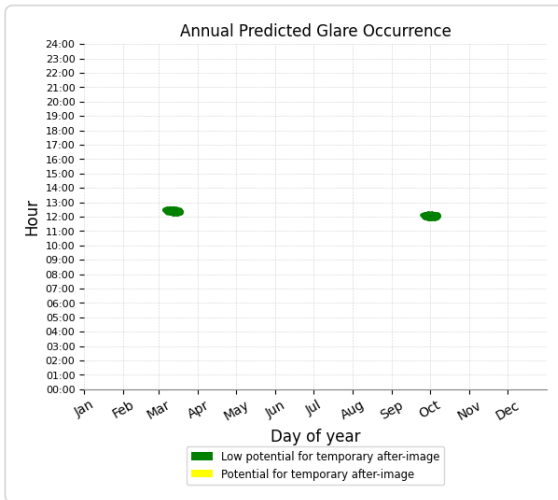
Green glare: 517 min.



PV array 1 and OP 4

Yellow glare: none

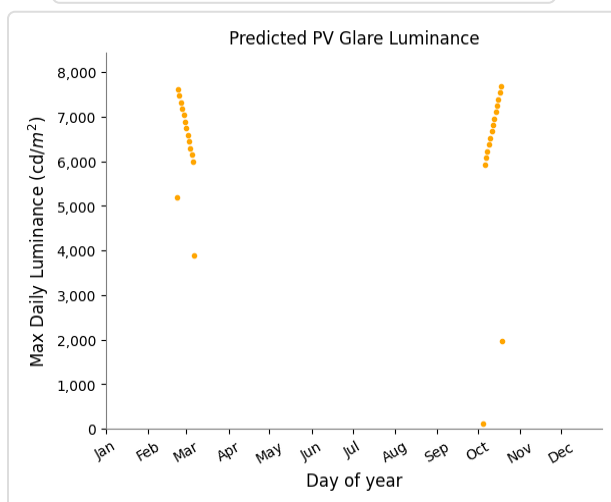
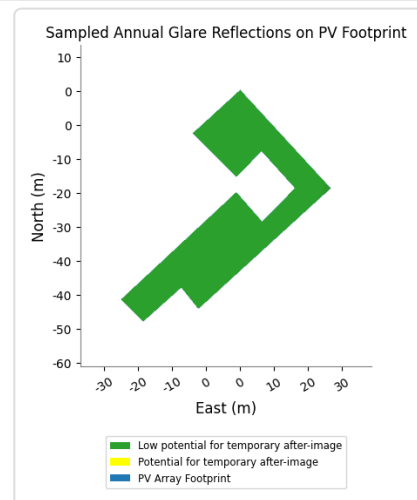
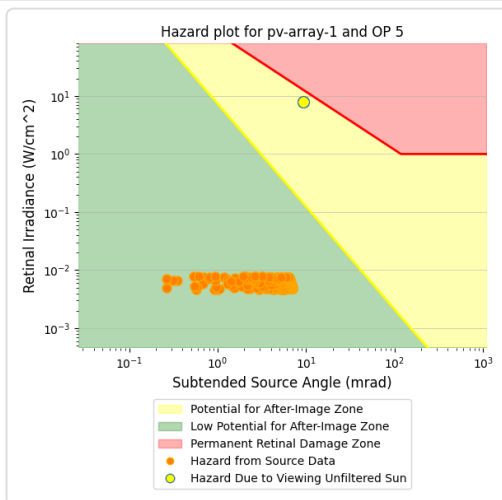
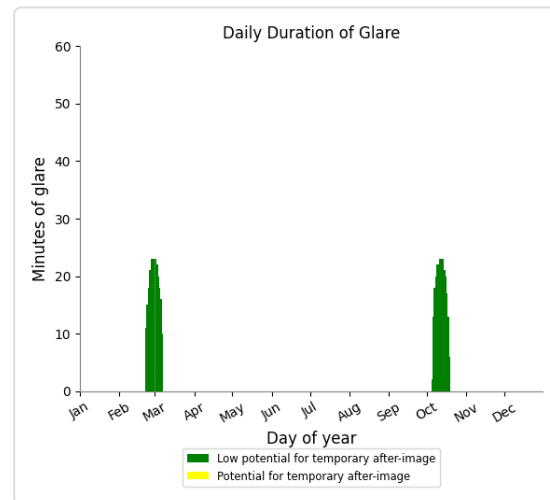
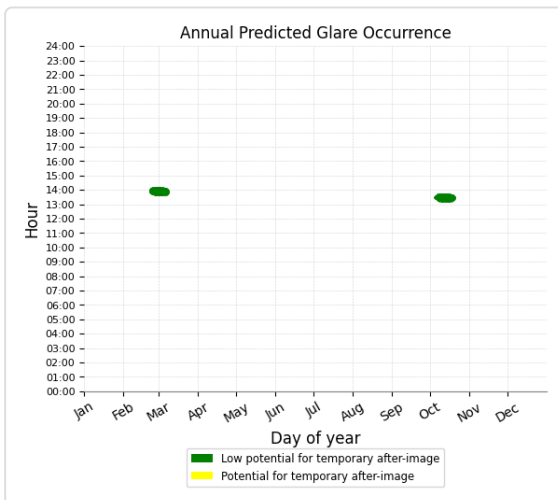
Green glare: 507 min.



PV array 1 and OP 5

Yellow glare: none

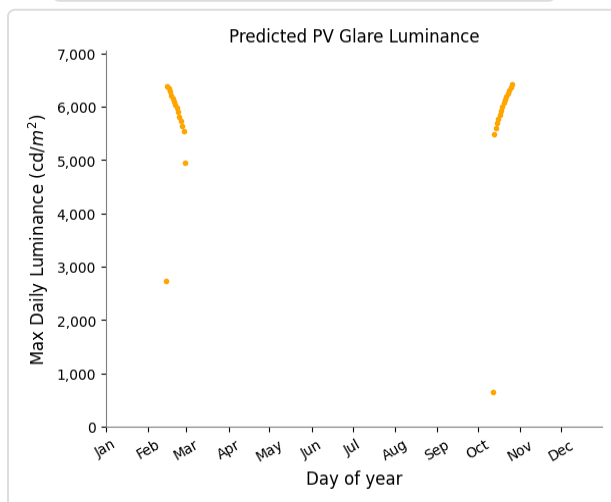
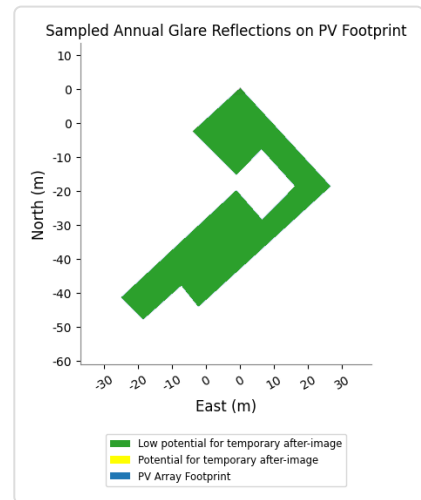
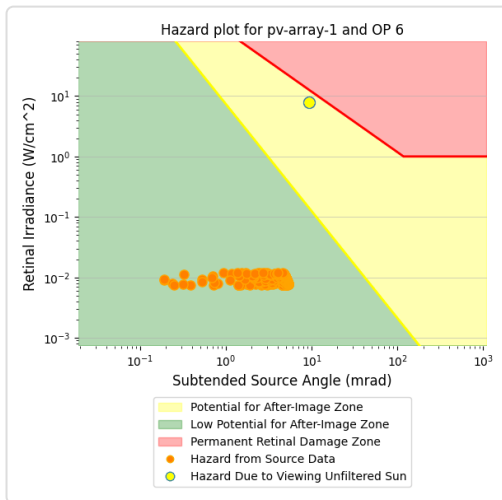
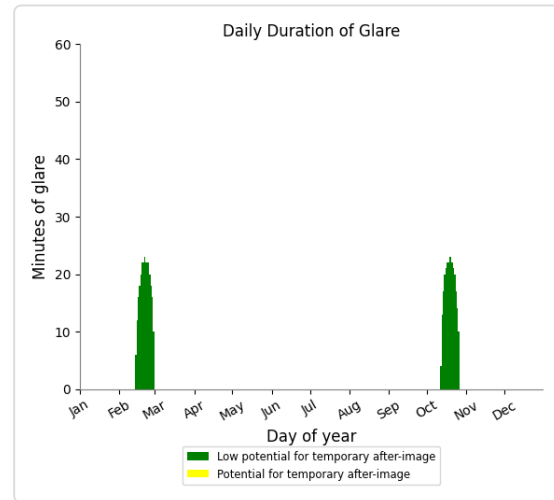
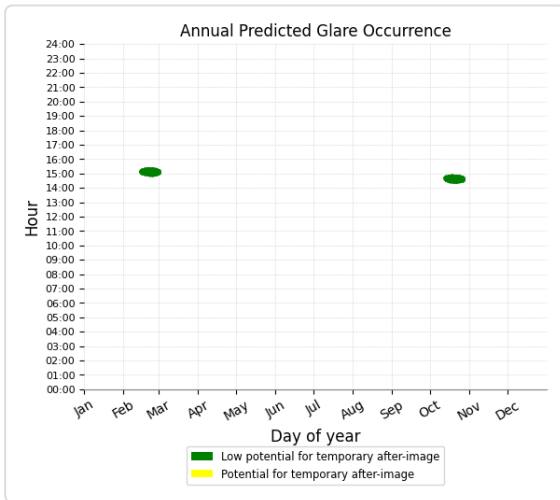
Green glare: 532 min.



PV array 1 and OP 6

Yellow glare: none

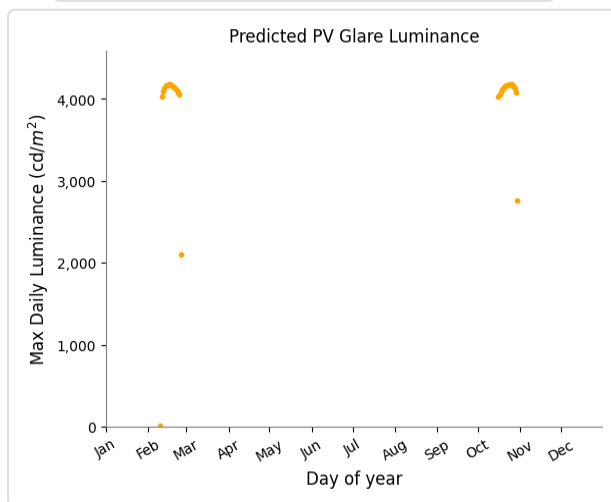
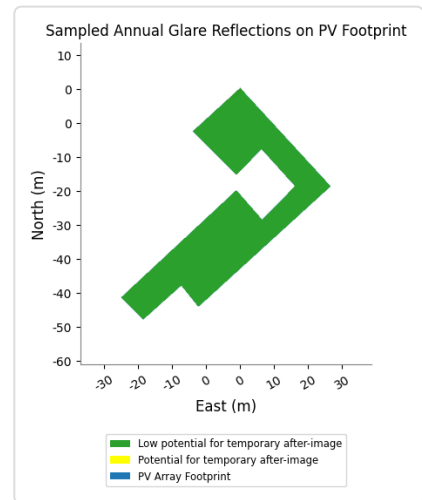
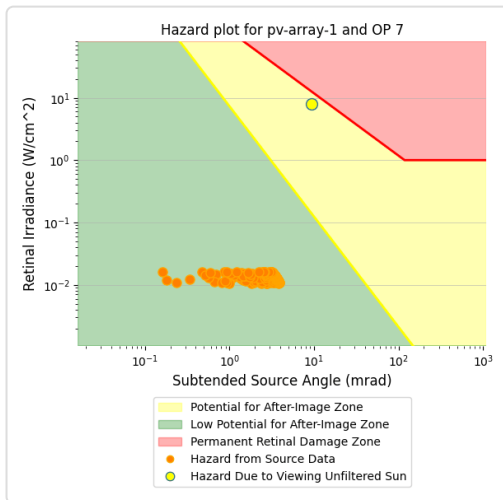
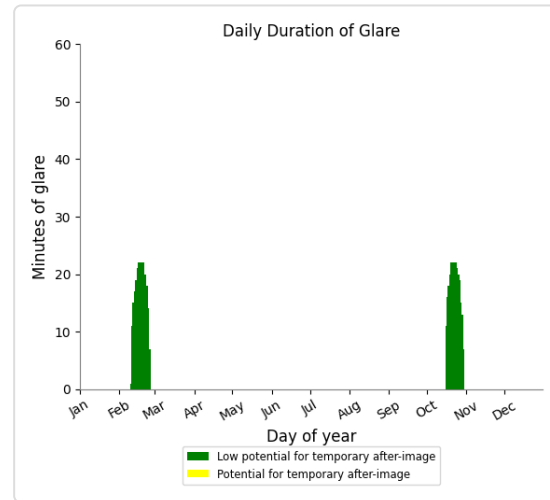
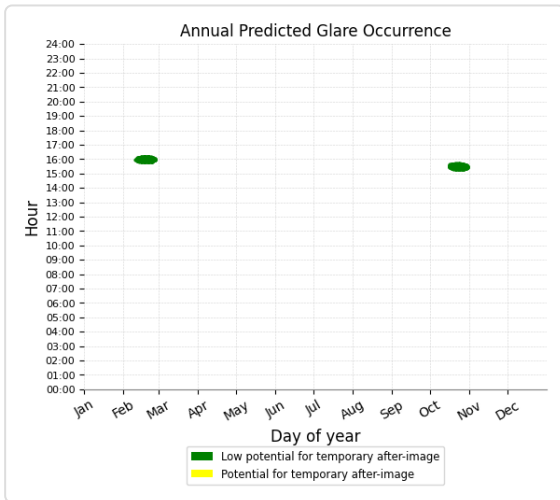
Green glare: 538 min.



PV array 1 and OP 7

Yellow glare: none

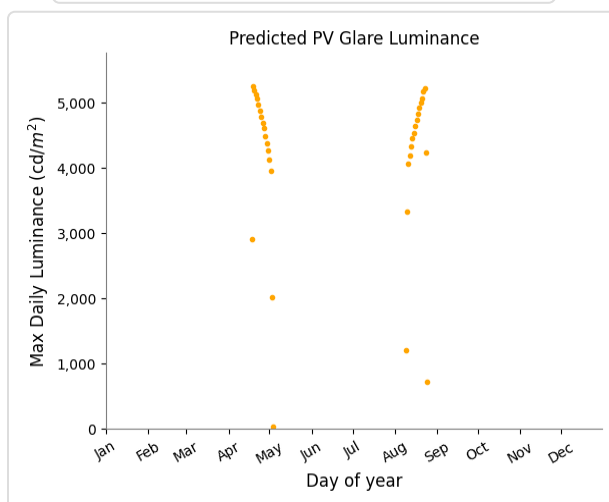
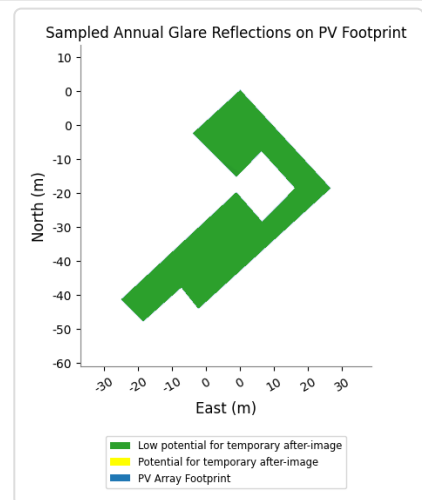
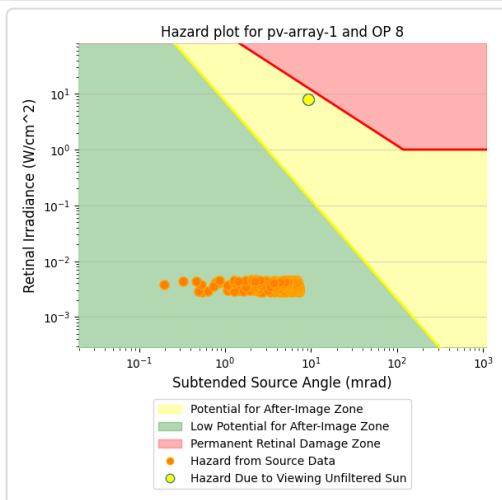
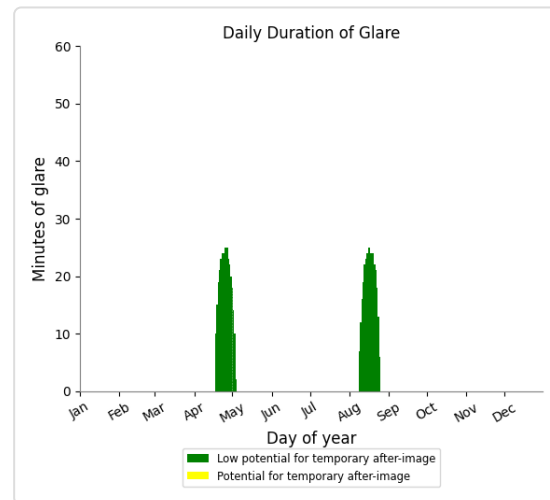
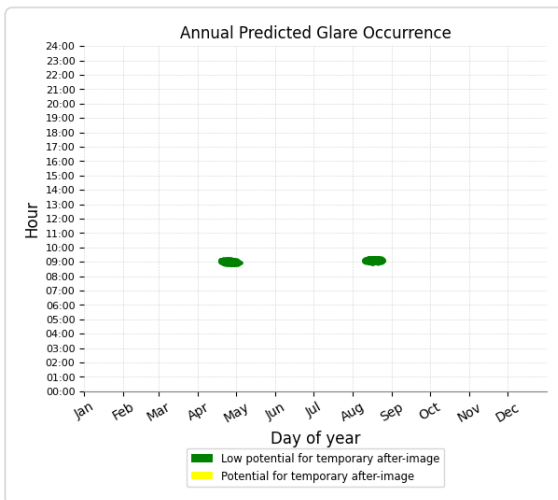
Green glare: 543 min.



PV array 1 and OP 8

Yellow glare: none

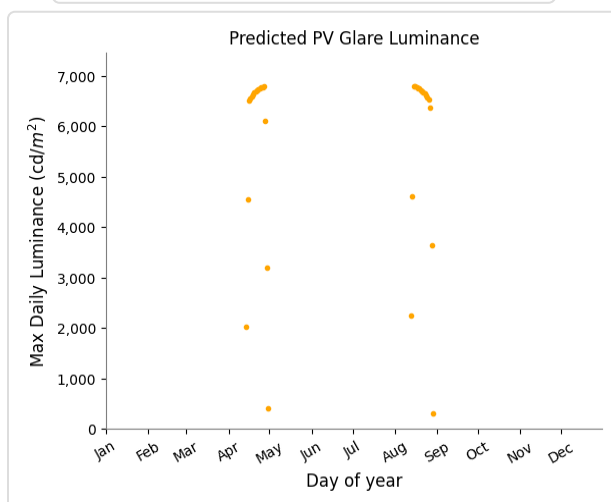
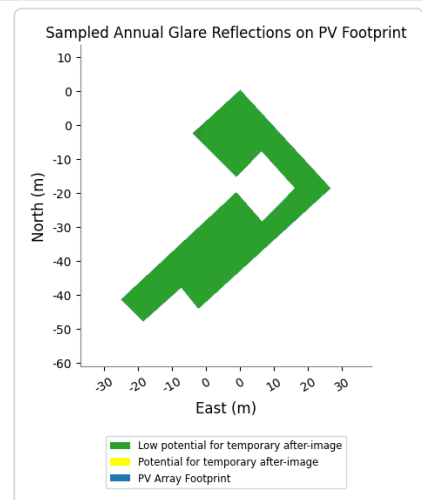
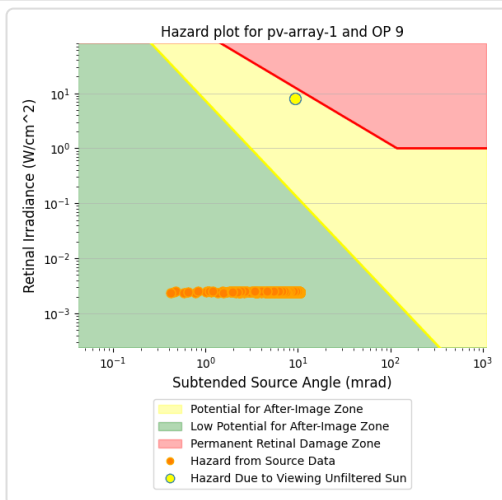
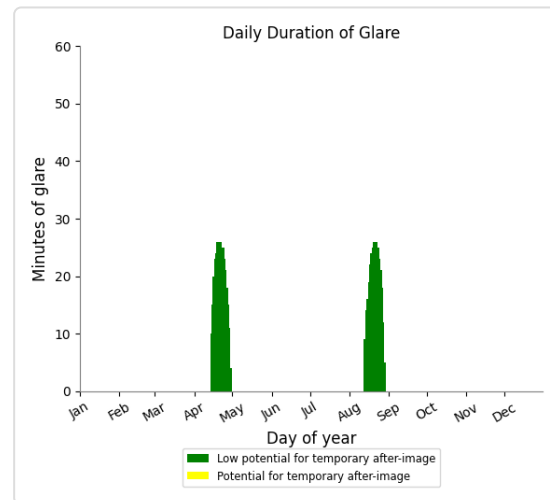
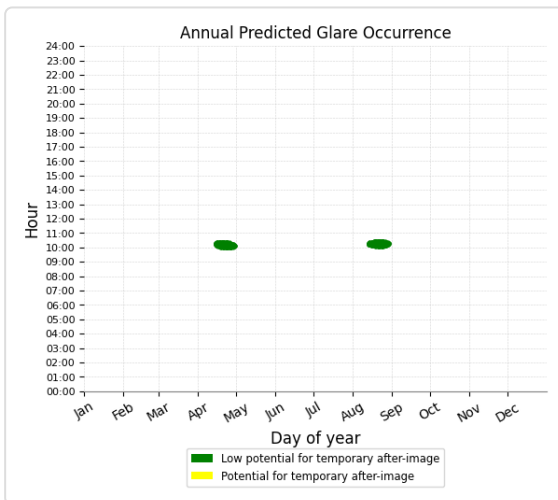
Green glare: 645 min.



PV array 1 and OP 9

Yellow glare: none

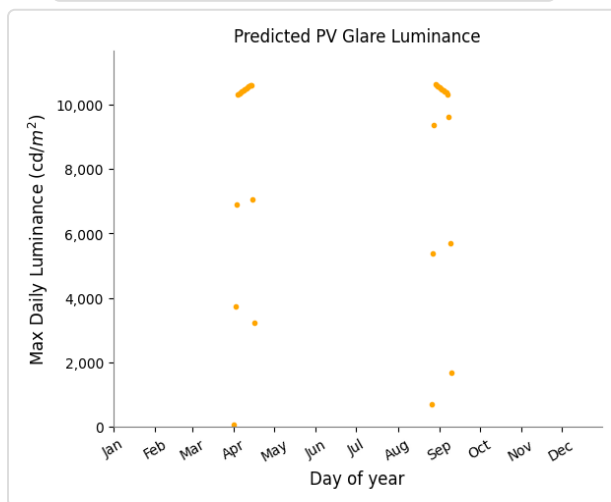
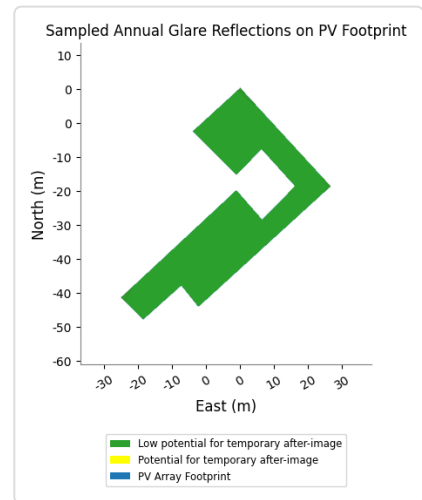
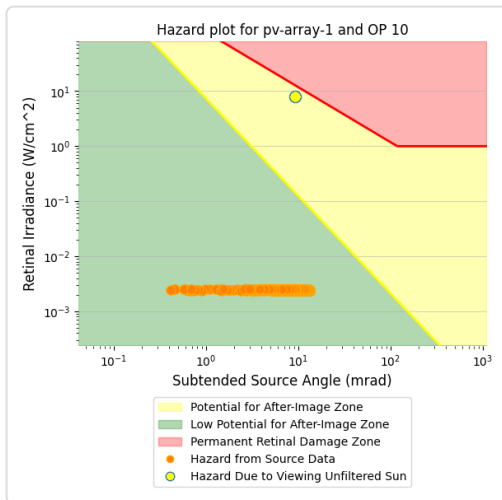
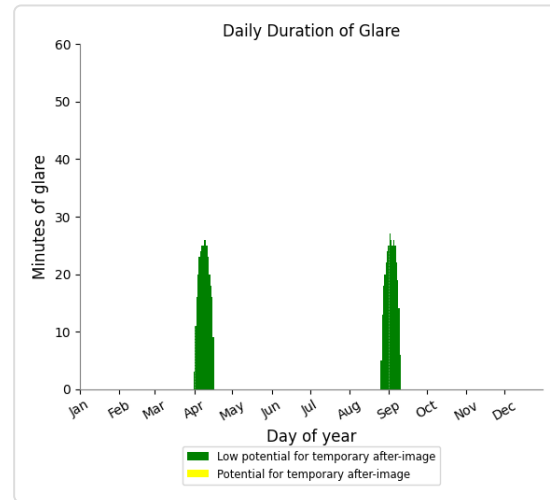
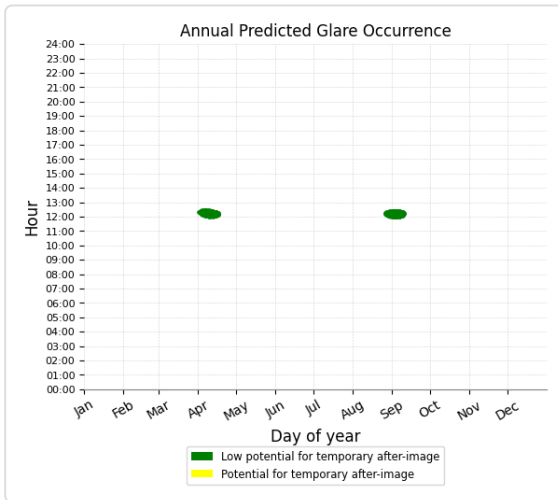
Green glare: 675 min.



PV array 1 and OP 10

Yellow glare: none

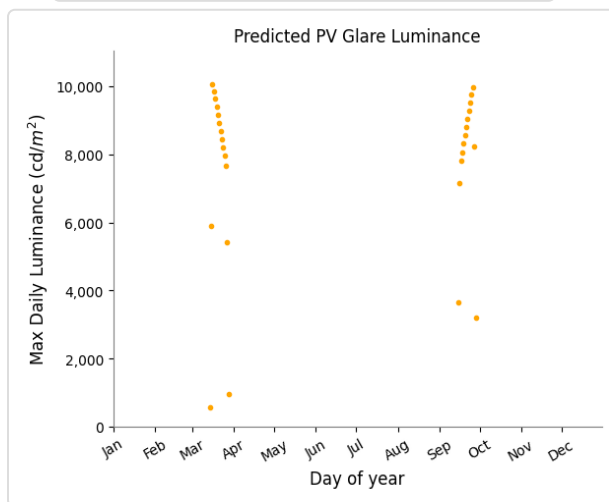
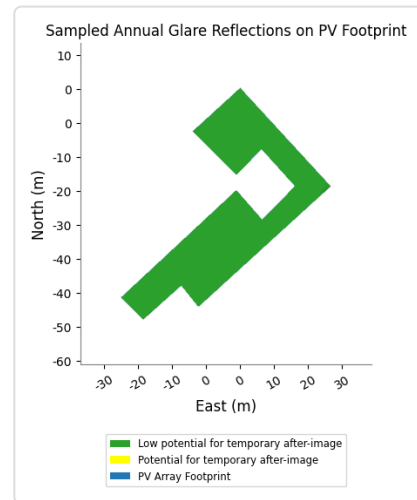
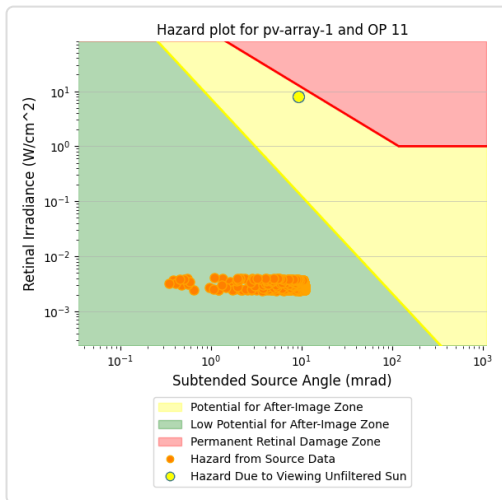
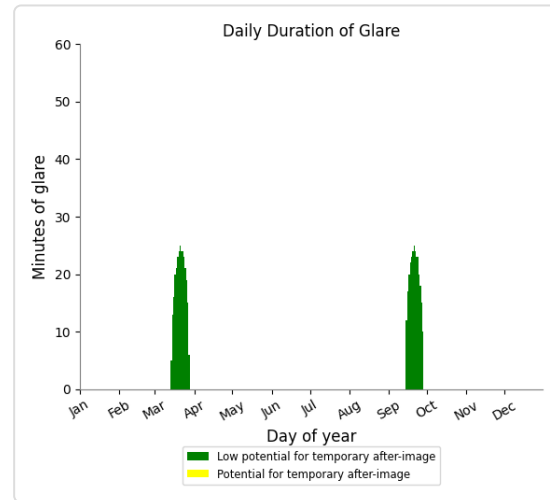
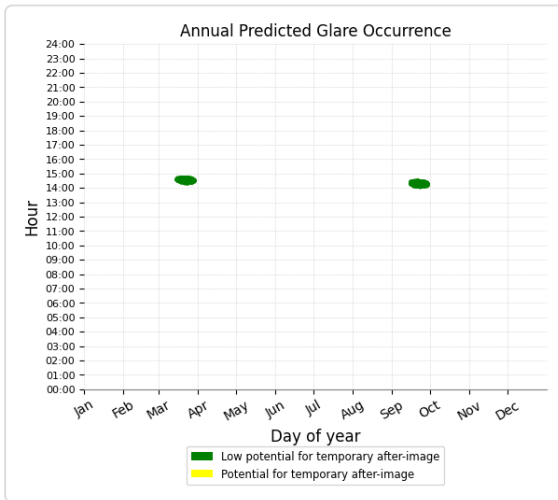
Green glare: 627 min.



PV array 1 and OP 11

Yellow glare: none

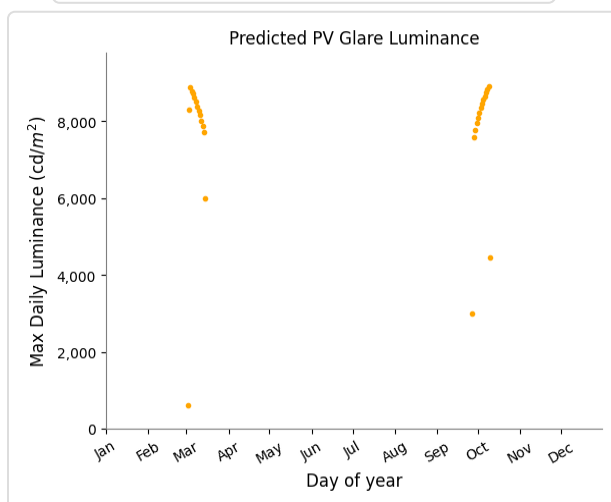
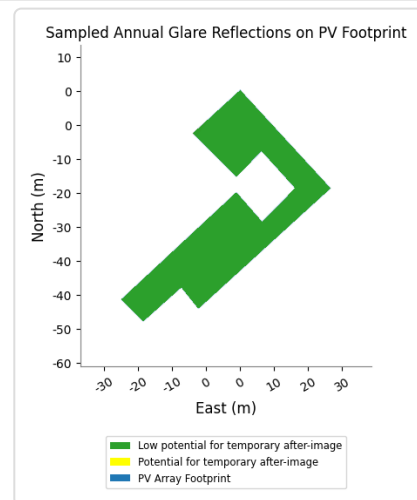
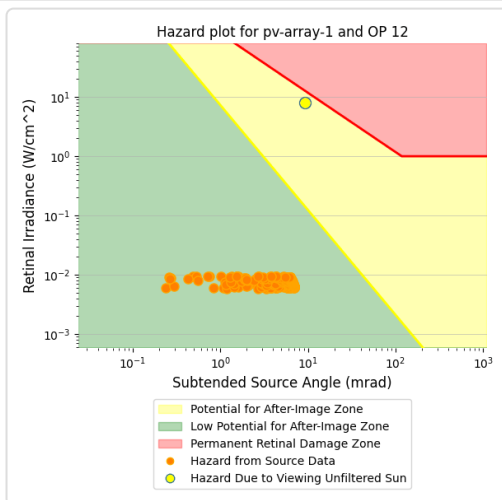
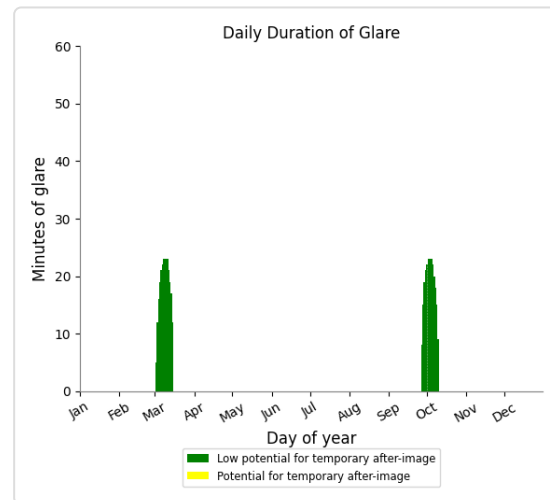
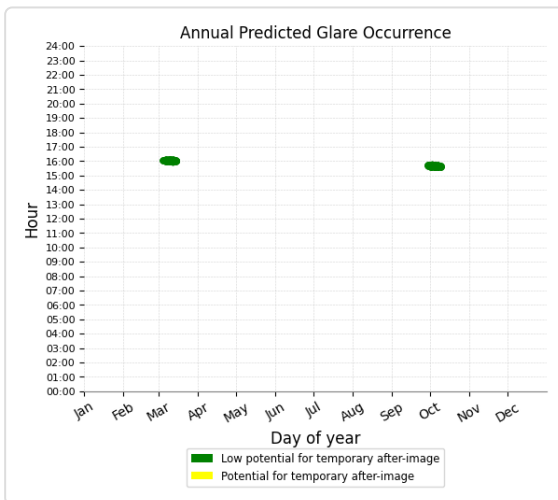
Green glare: 555 min.



PV array 1 and OP 12

Yellow glare: none

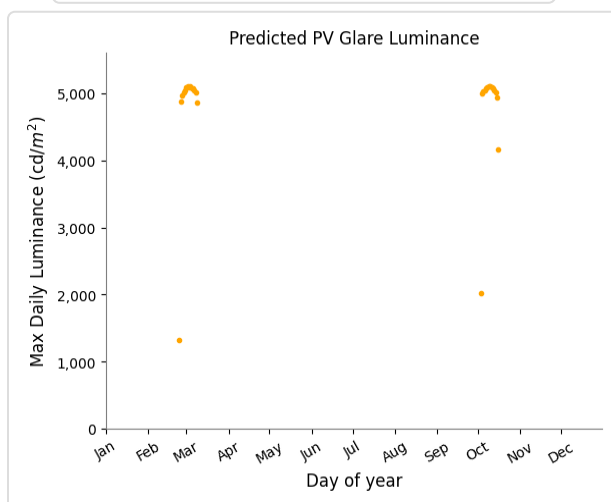
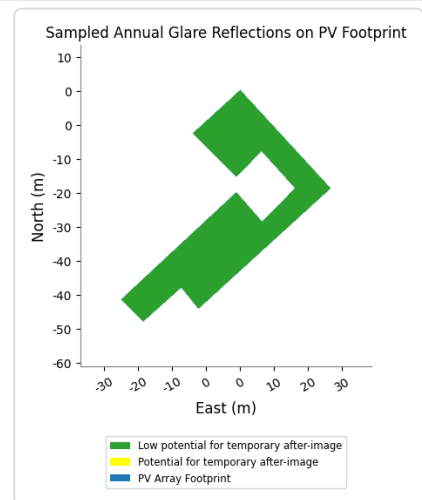
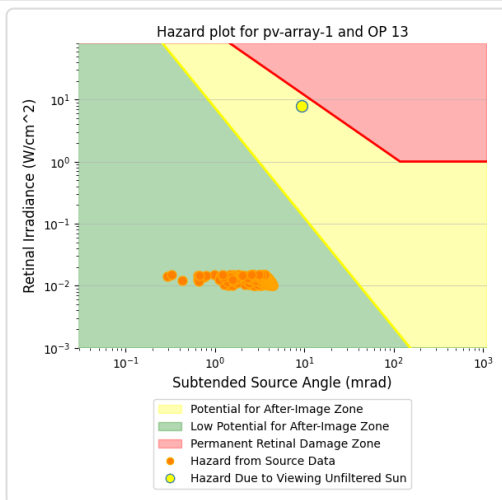
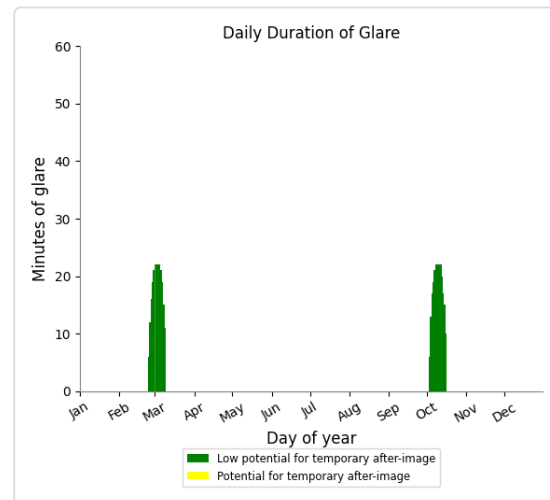
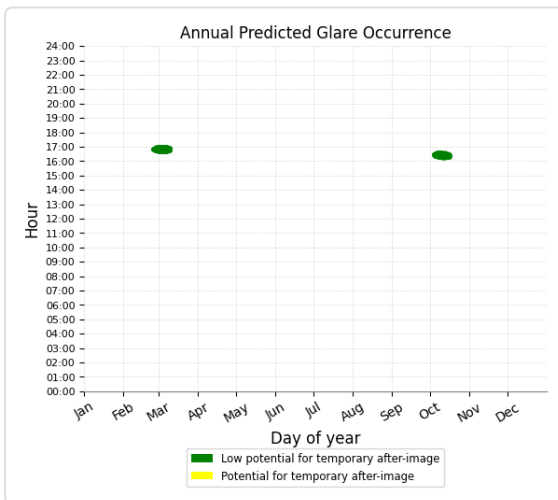
Green glare: 517 min.



PV array 1 and OP 13

Yellow glare: none

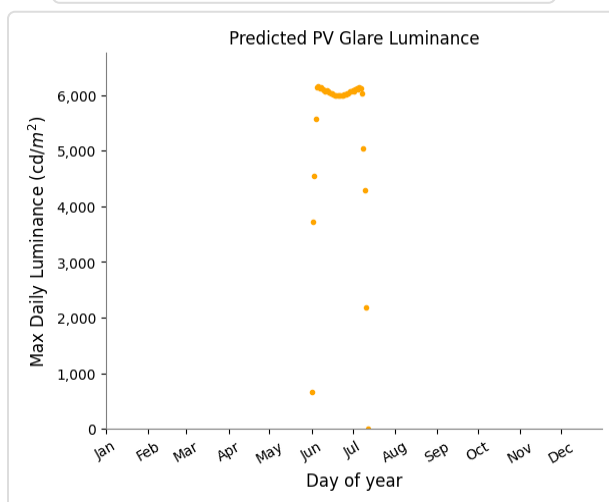
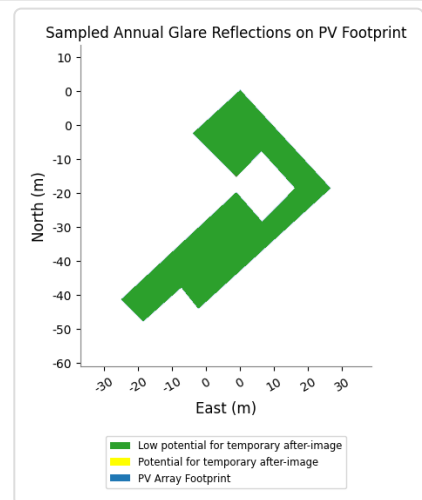
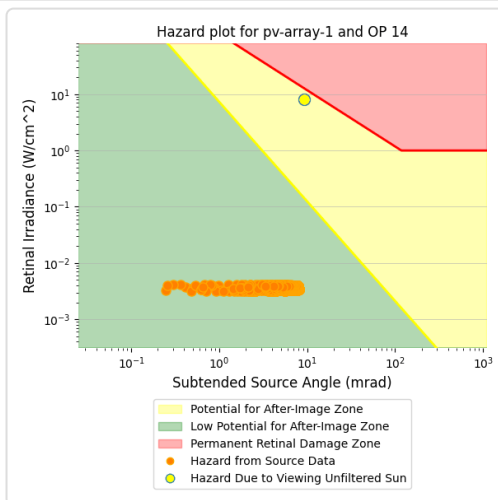
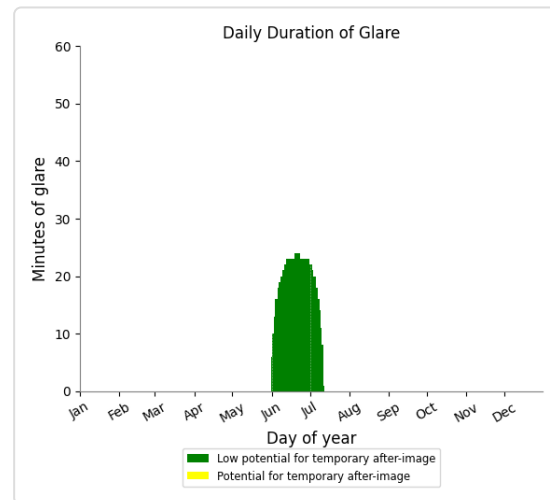
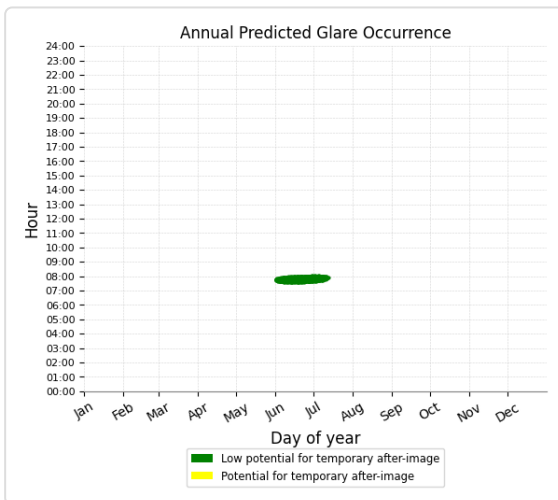
Green glare: 498 min.



PV array 1 and OP 14

Yellow glare: none

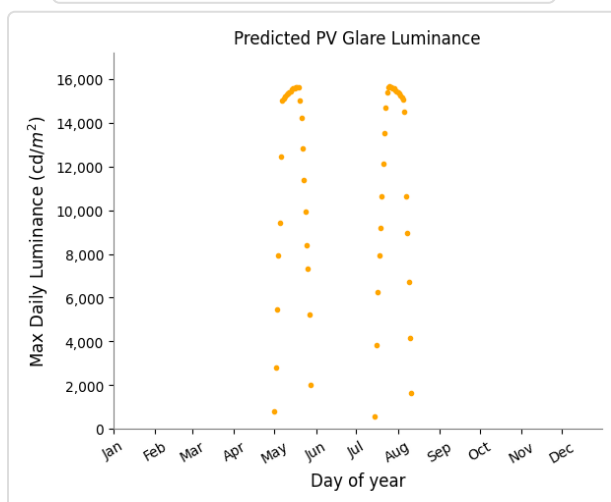
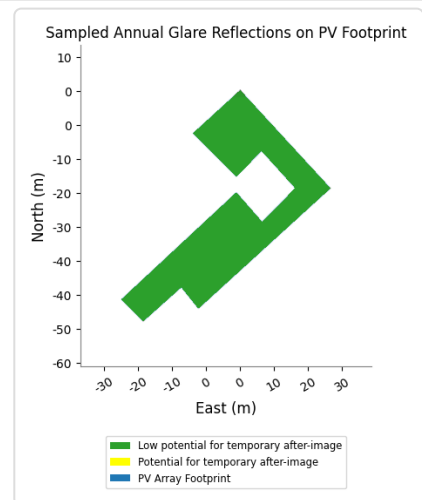
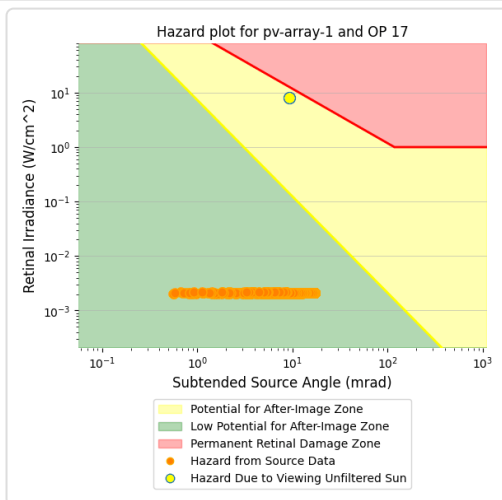
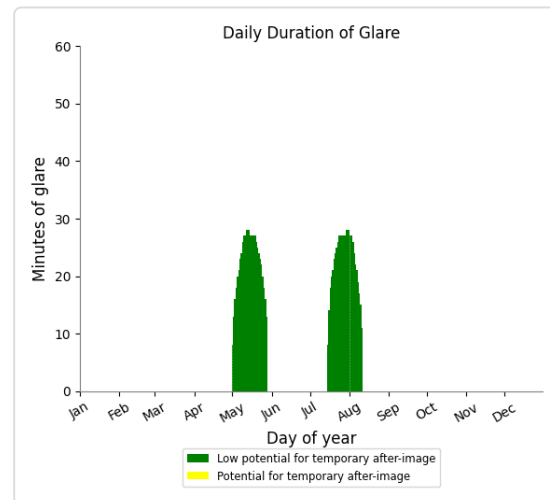
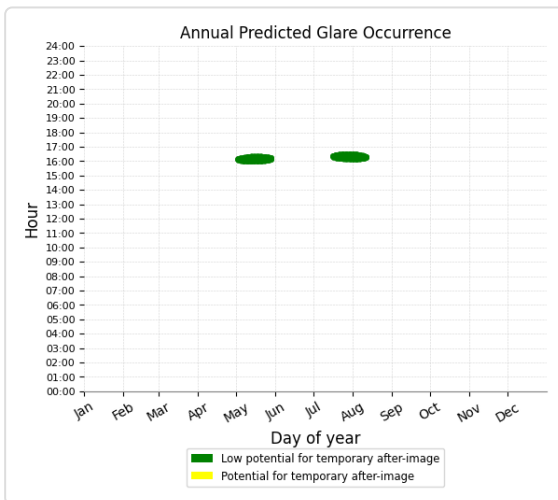
Green glare: 813 min.



PV array 1 and OP 17

Yellow glare: none

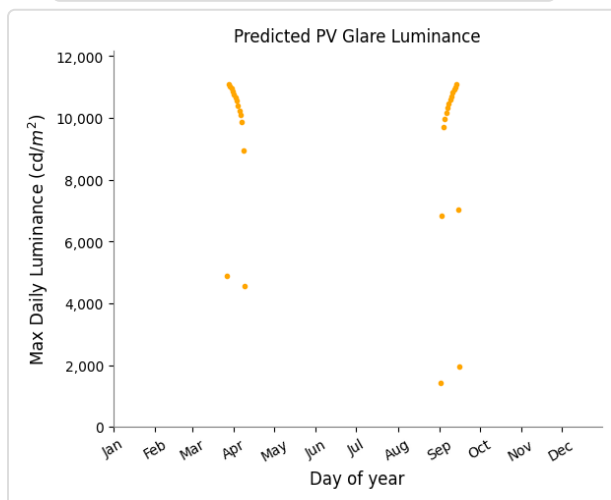
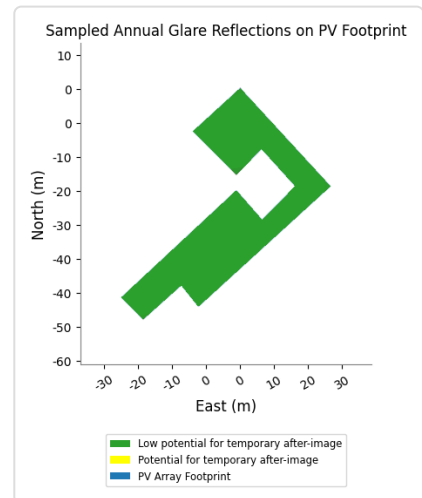
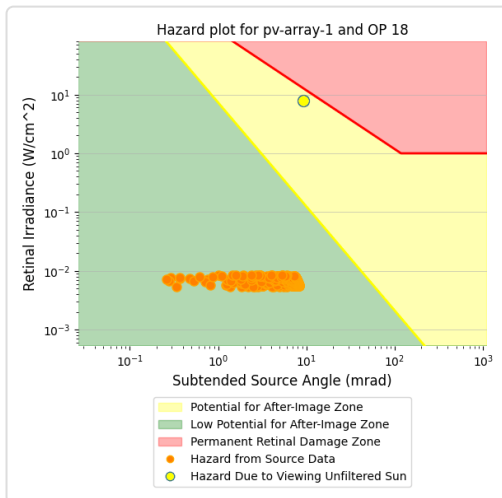
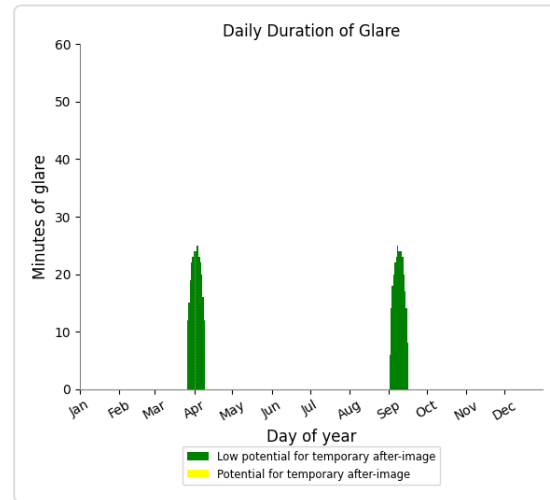
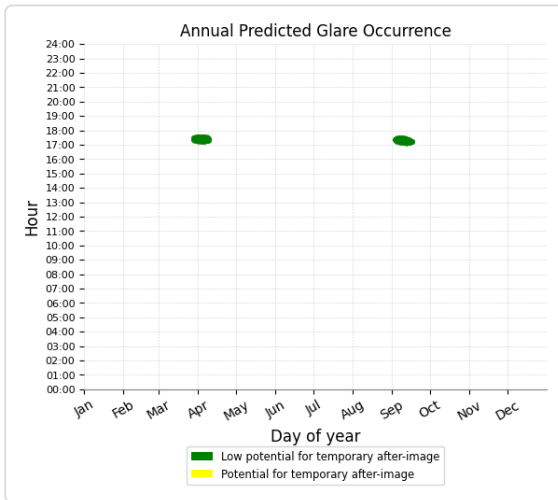
Green glare: 1,263 min.



PV array 1 and OP 18

Yellow glare: none

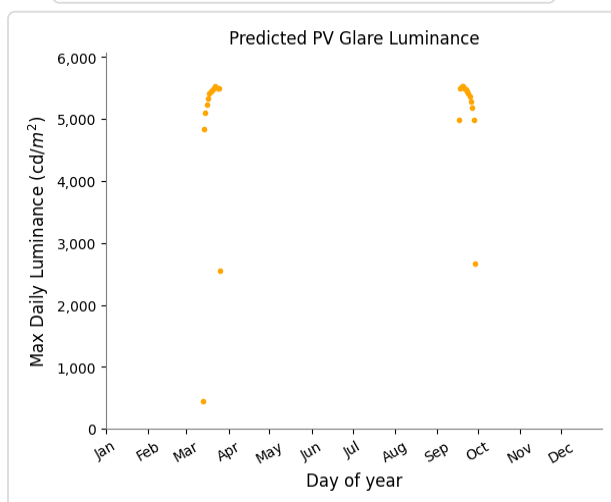
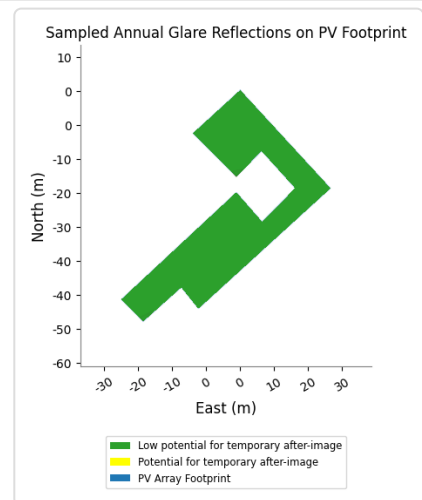
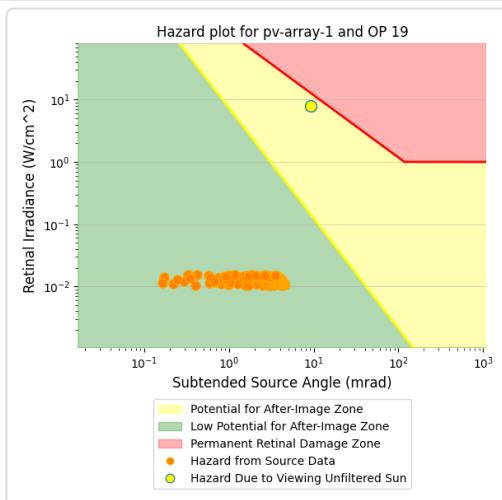
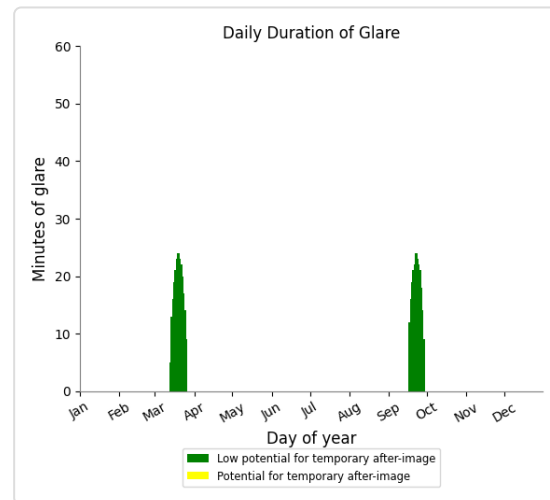
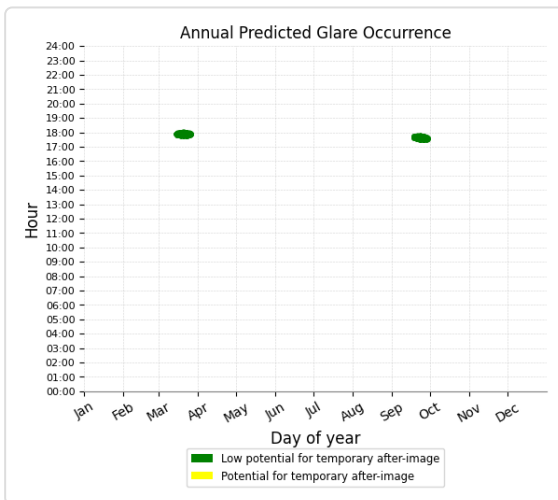
Green glare: 564 min.



PV array 1 and OP 19

Yellow glare: none

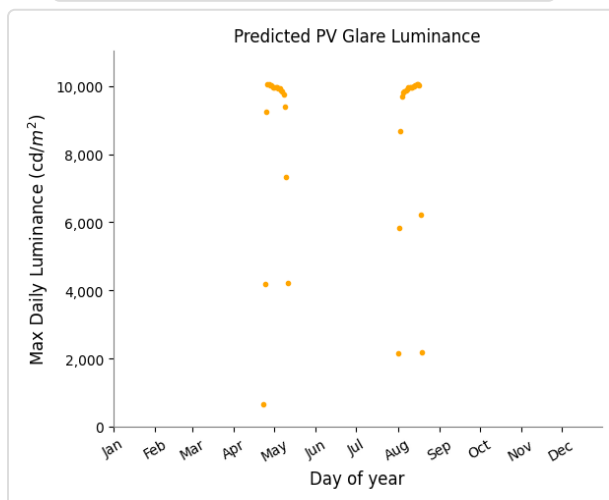
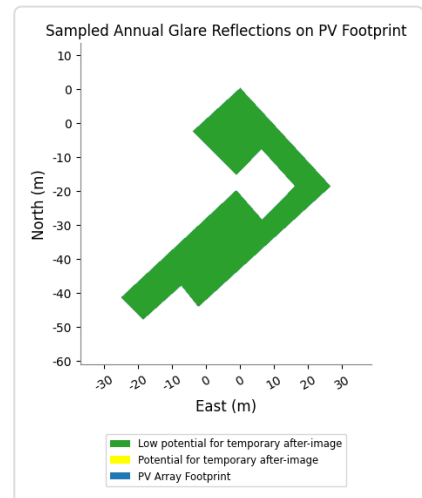
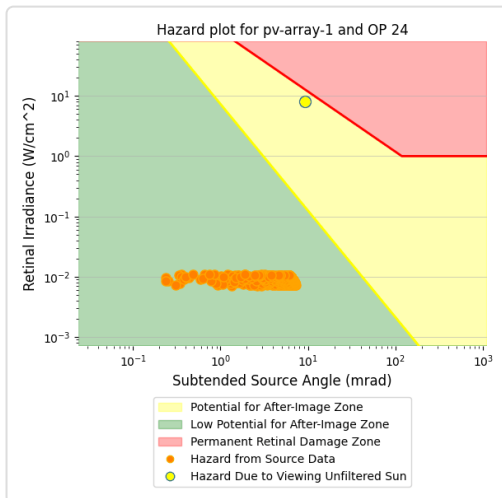
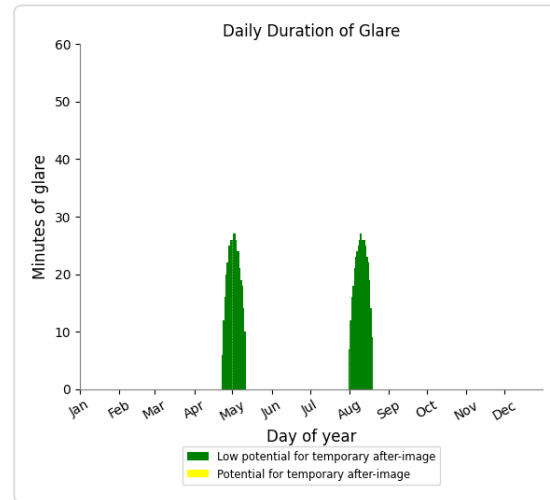
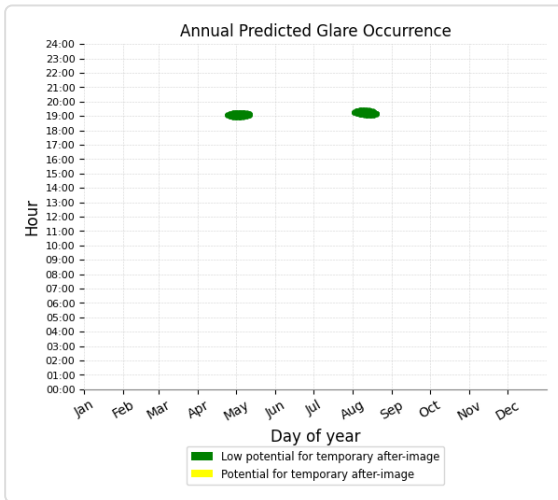
Green glare: 495 min.



PV array 1 and OP 24

Yellow glare: none

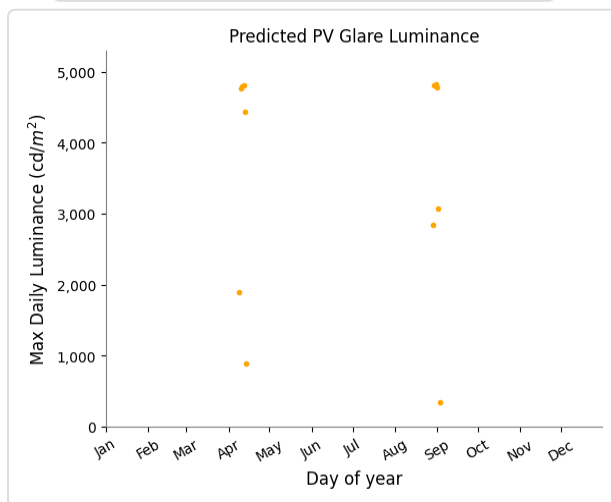
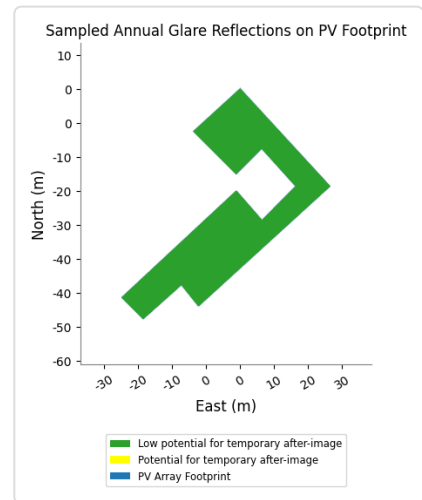
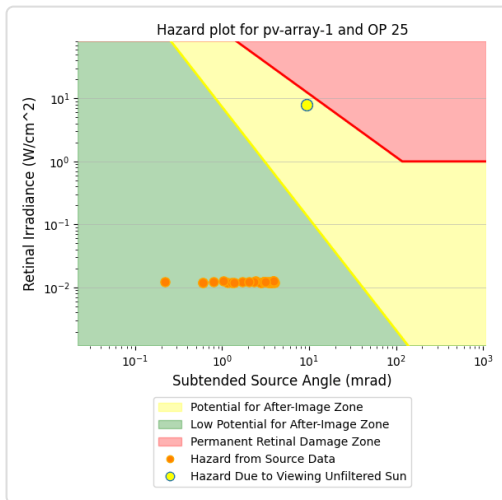
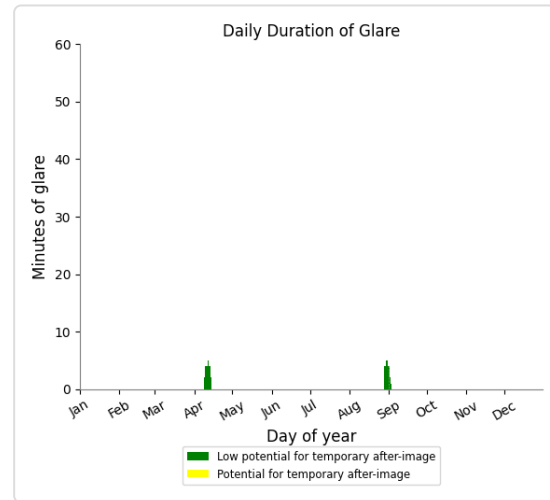
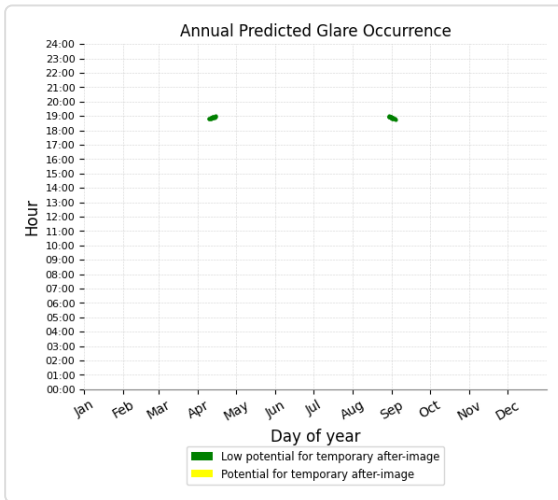
Green glare: 777 min.



PV array 1 and OP 25

Yellow glare: none

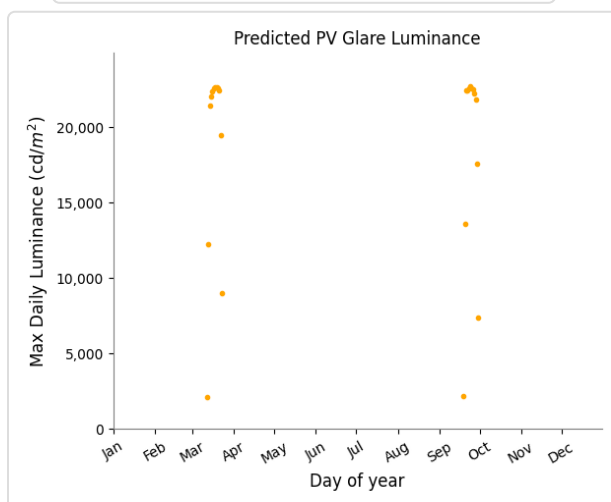
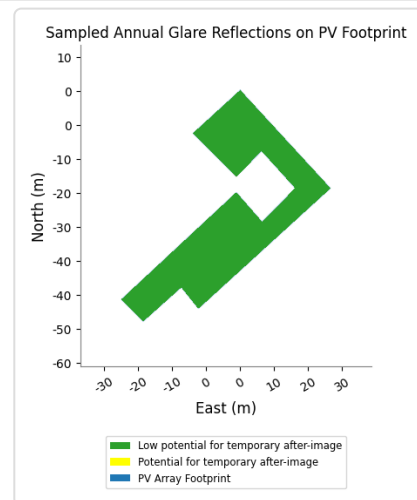
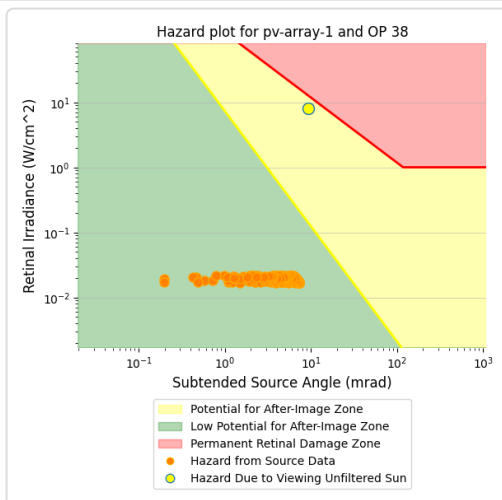
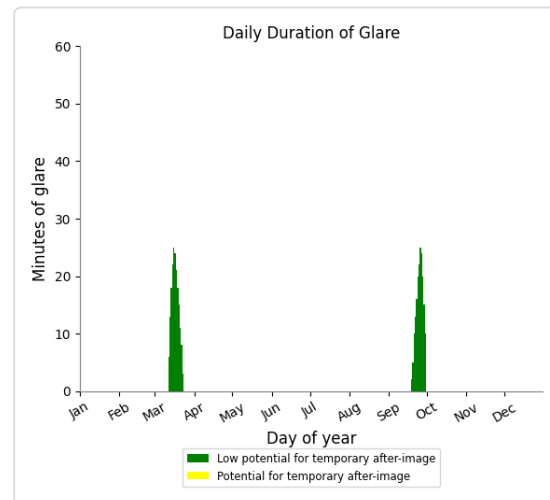
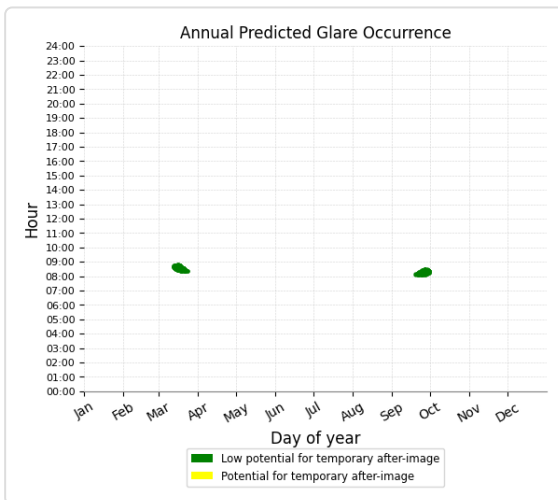
Green glare: 42 min.



PV array 1 and OP 38

Yellow glare: none

Green glare: 366 min.



PV array 1 and 1-ATCT

No glare found

PV array 1 and OP 15

No glare found

PV array 1 and OP 16

No glare found

PV array 1 and OP 20

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 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 39

No glare found

PV array 1 and OP 40

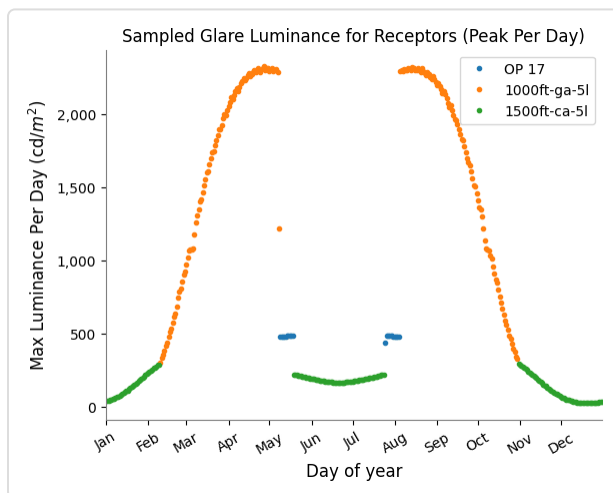
No glare found

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- R_23R-L	4,733	78.9	0	0.0	2,324
1000Ft- GA_5R23L_05R- R_23L-L	2,309	38.5	0	0.0	1,419
1500Ft- CA_5L23R_05L- R_23R-L	21,990	366.5	0	0.0	342
Approach_23L	154	2.6	0	0.0	5
Approach_23R	255	4.2	0	0.0	6
1000Ft- GA_5L23R_05L- L_23R-R	0	0.0	0	0.0	0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
1500Ft- CA_5L23R_05L- L_23R-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 2	406	6.8	0	0.0	108
OP 3	402	6.7	0	0.0	142
OP 4	380	6.3	0	0.0	179
OP 5	436	7.3	0	0.0	193
OP 6	469	7.8	0	0.0	154
OP 7	480	8.0	0	0.0	98
OP 8	492	8.2	0	0.0	135
OP 9	476	7.9	0	0.0	186
OP 10	405	6.8	0	0.0	302
OP 11	410	6.8	0	0.0	281
OP 12	416	6.9	0	0.0	222
OP 13	432	7.2	0	0.0	122
OP 14	726	12.1	0	0.0	162
OP 17	650	10.8	0	0.0	485
OP 18	413	6.9	0	0.0	282
OP 19	404	6.7	0	0.0	133
OP 24	545	9.1	0	0.0	254
OP 25	34	0.6	0	0.0	117

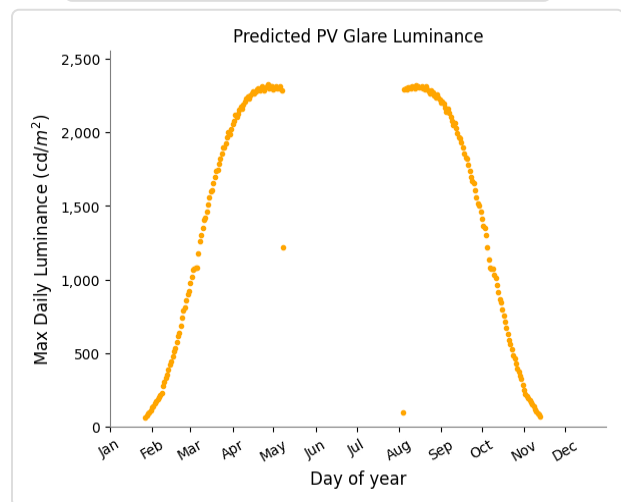
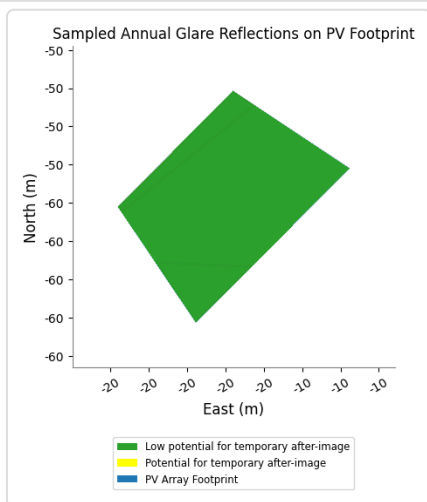
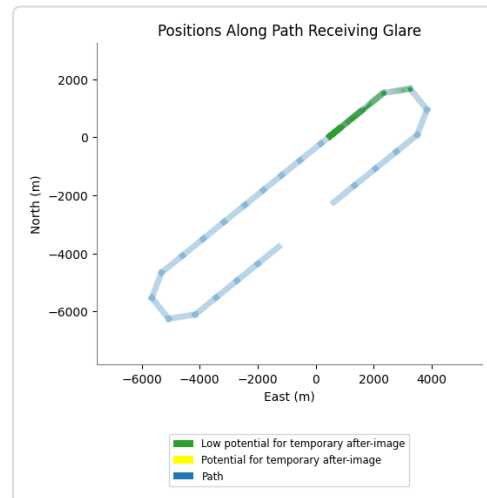
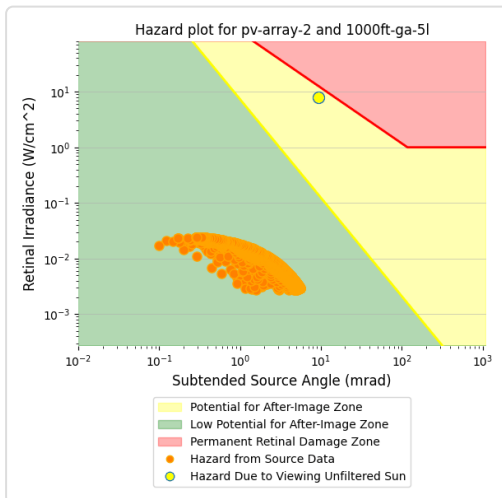
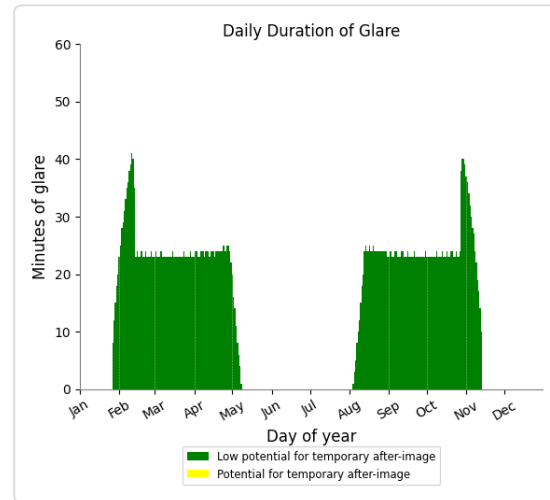
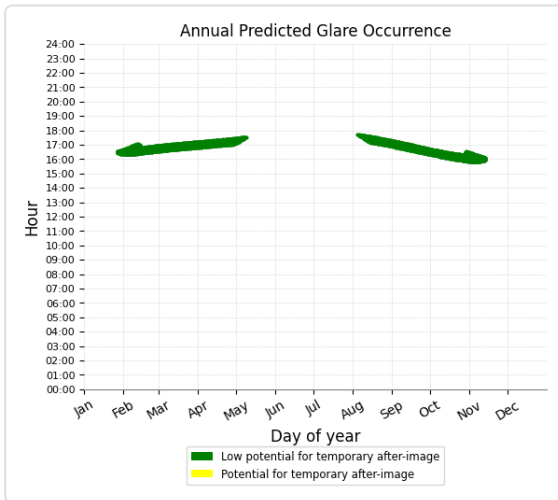
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 38	253	4.2	0	0.0	591
1-ATCT	0	0.0	0	0.0	0
OP 15	0	0.0	0	0.0	0
OP 16	0	0.0	0	0.0	0
OP 20	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	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 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-R_23R-L

Yellow glare: none

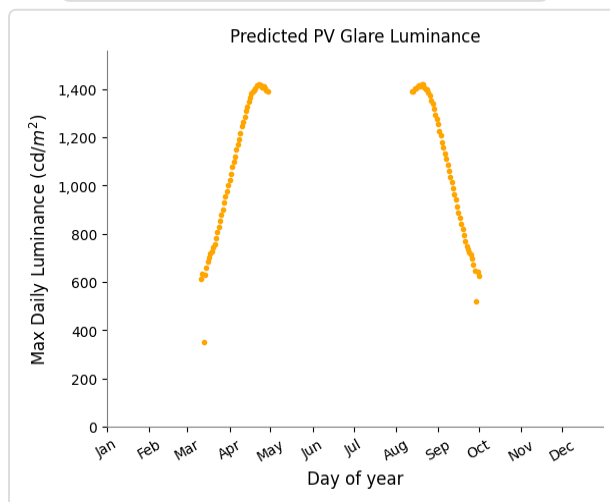
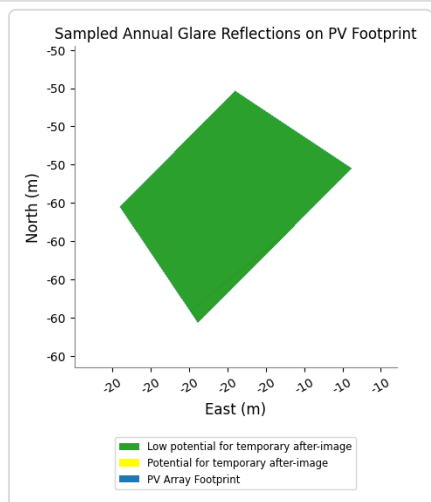
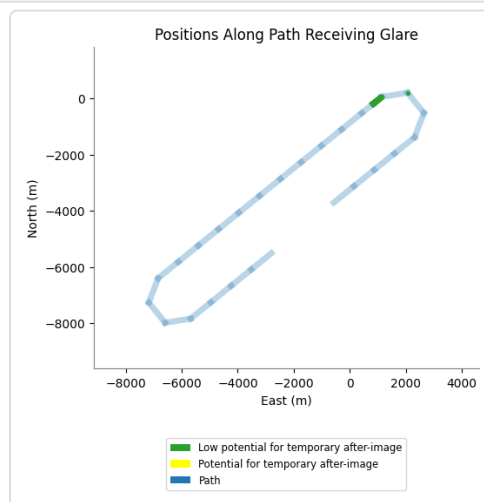
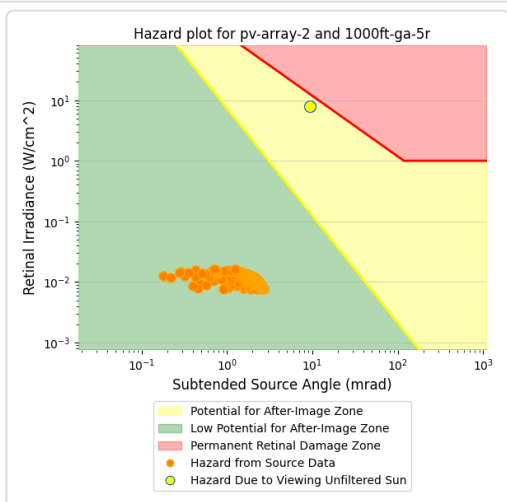
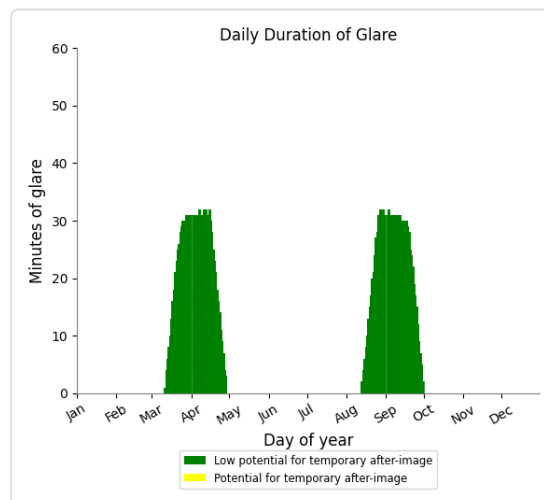
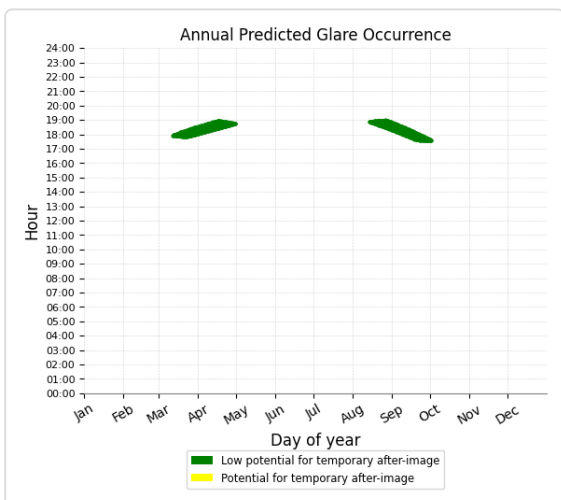
Green glare: 4,733 min.



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

Yellow glare: none

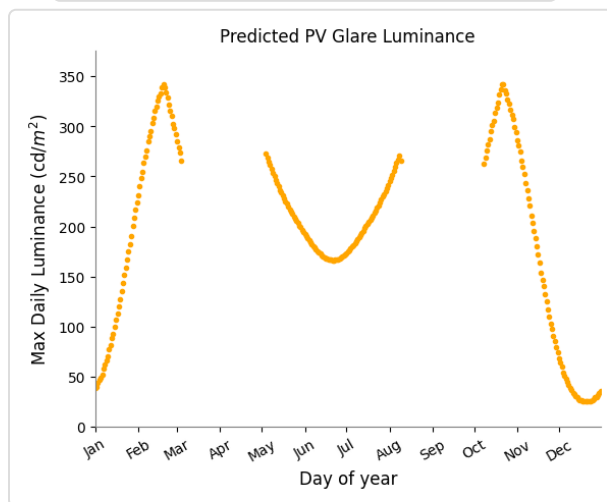
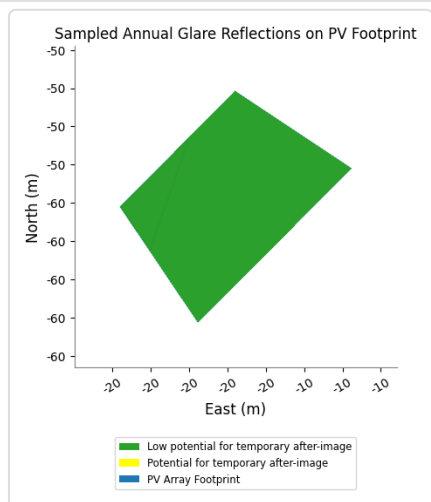
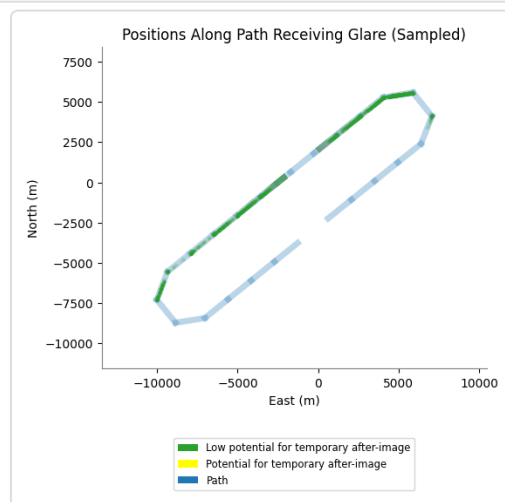
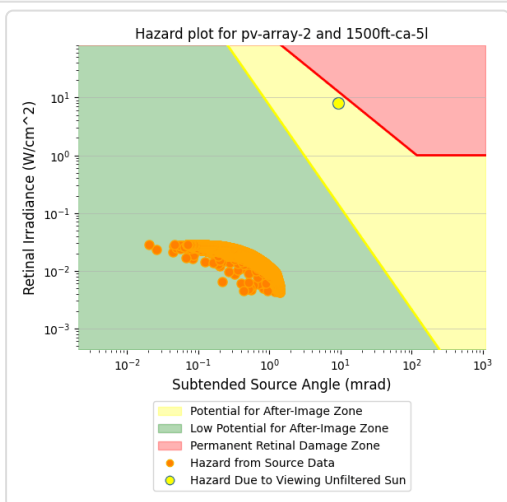
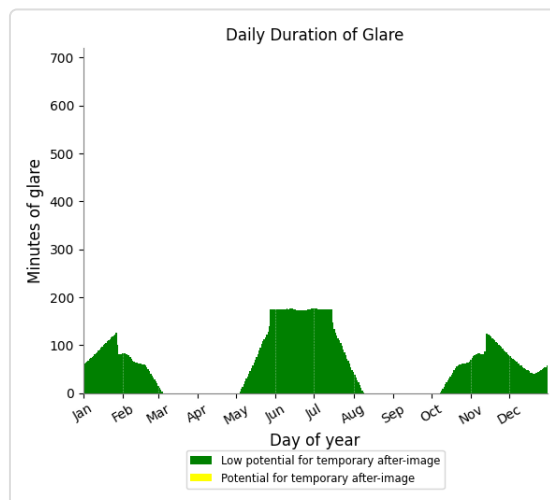
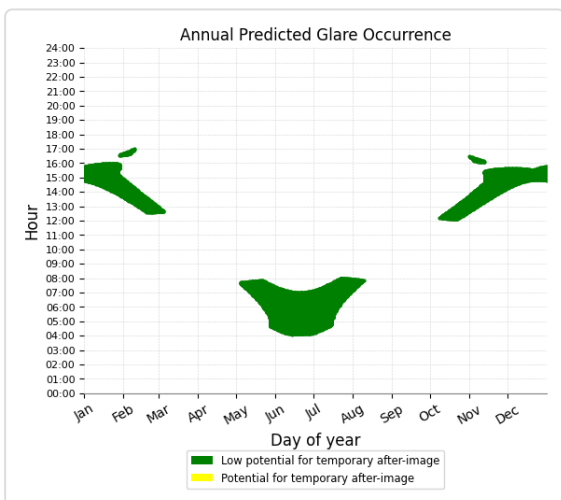
Green glare: 2,309 min.



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

Yellow glare: none

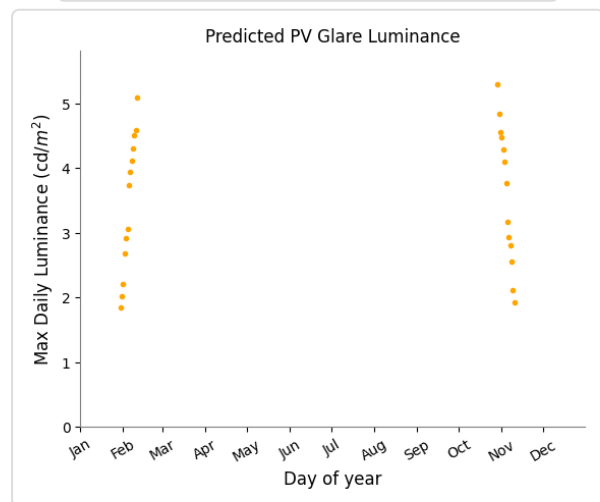
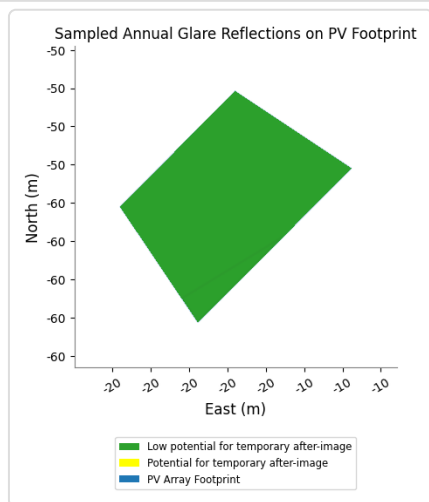
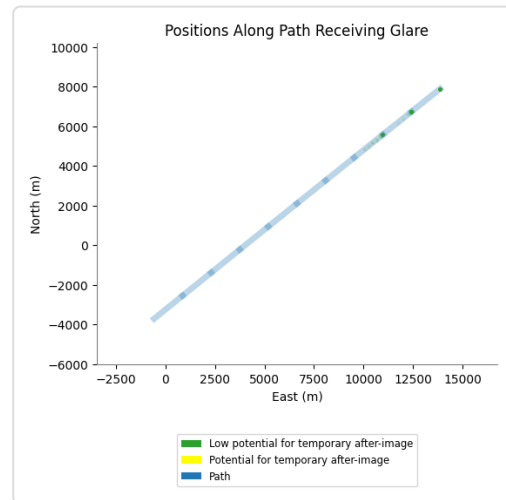
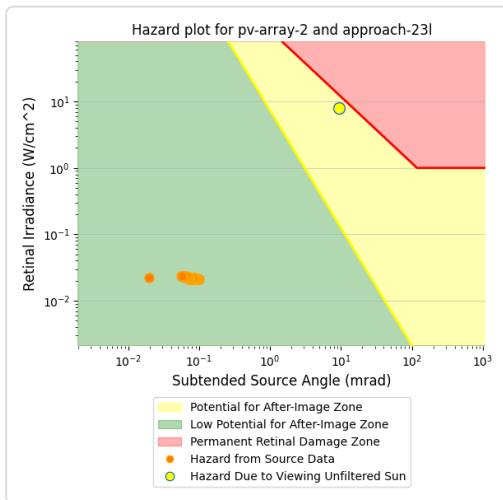
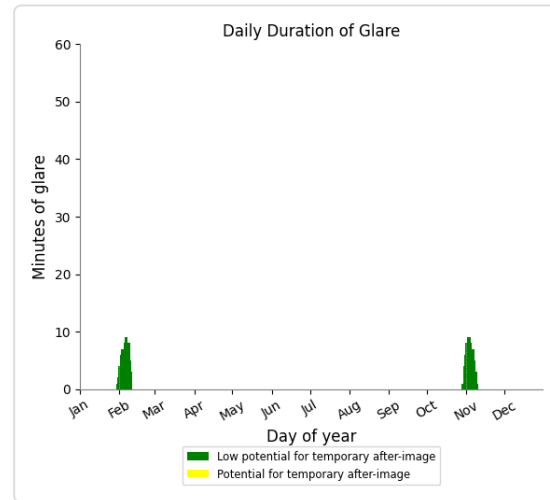
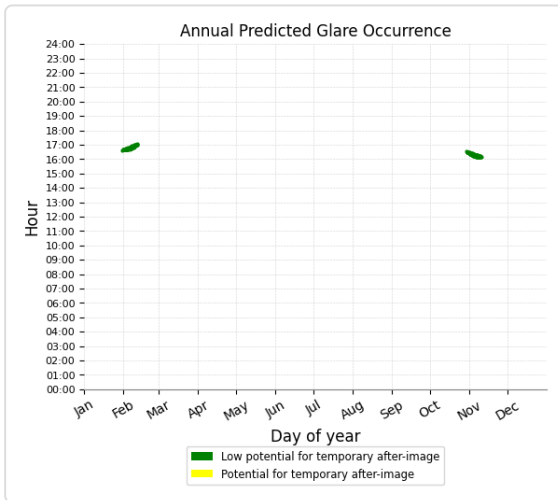
Green glare: 21,990 min.



PV array 2 and Route: Approach_23L

Yellow glare: none

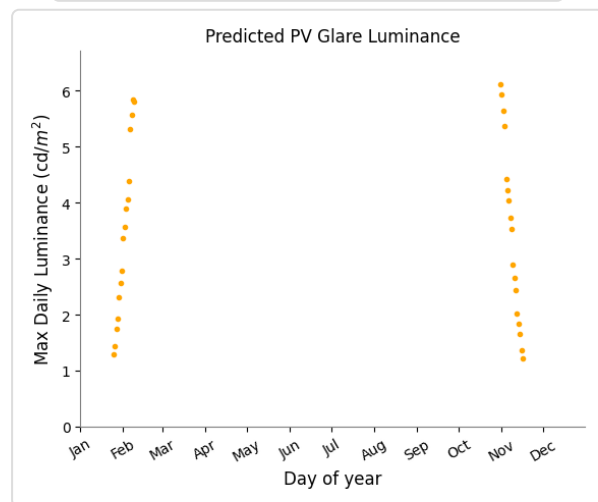
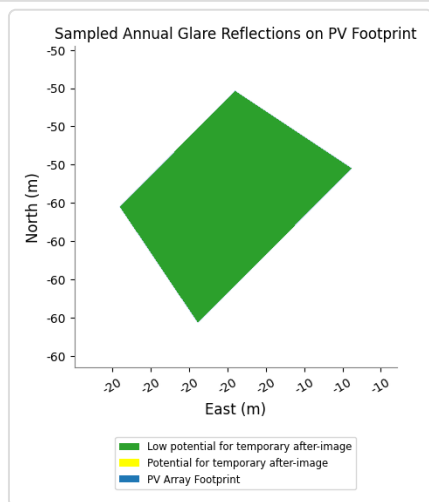
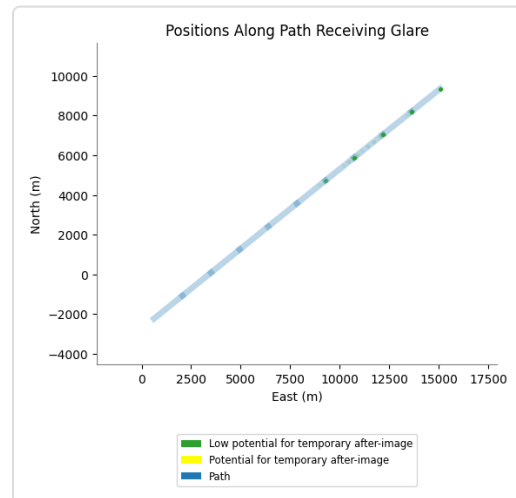
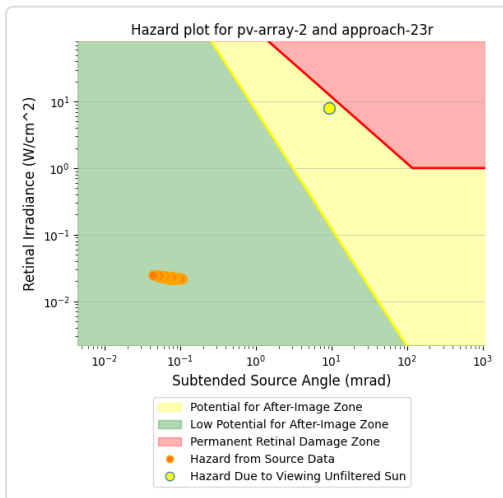
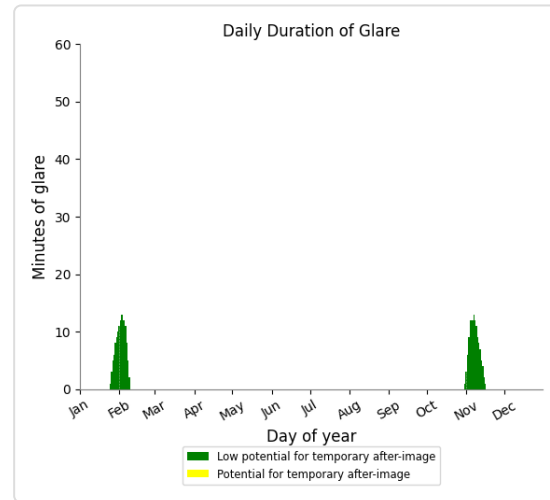
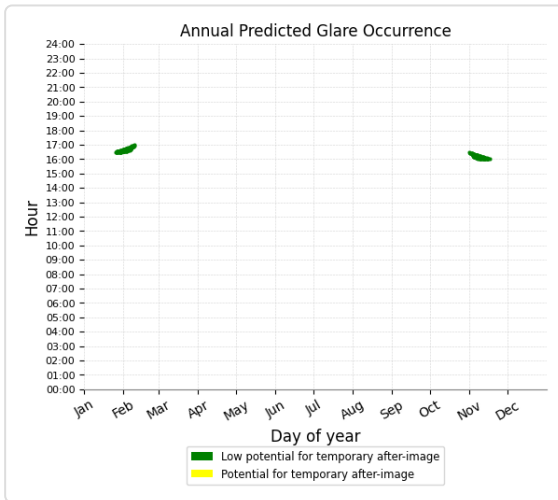
Green glare: 154 min.



PV array 2 and Route: Approach_23R

Yellow glare: none

Green glare: 255 min.



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

No glare found

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

No glare found

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

No glare found

PV array 2 and Route: Approach_05L

No glare found

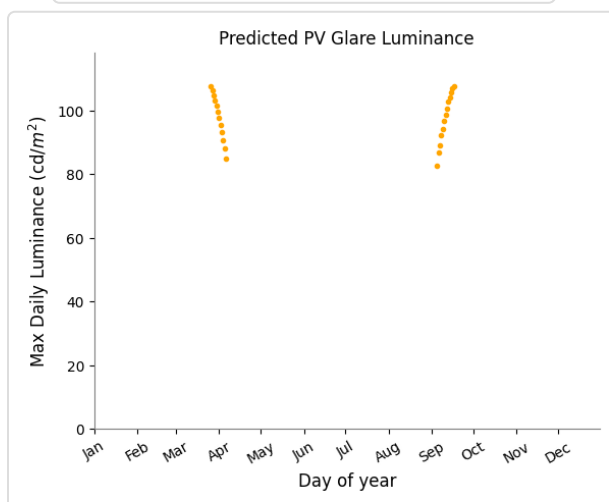
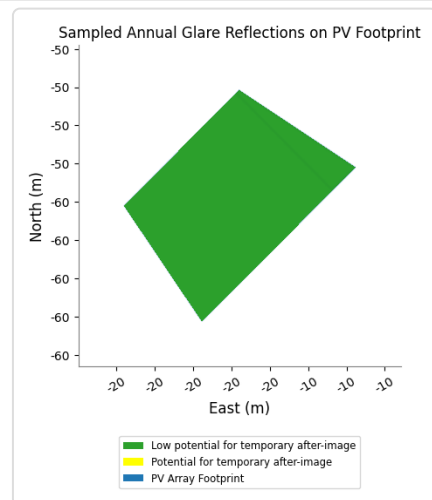
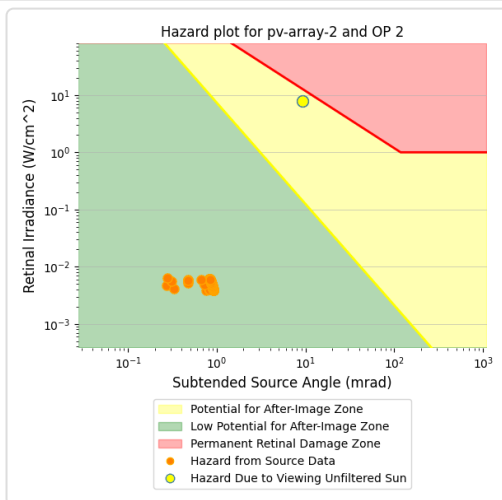
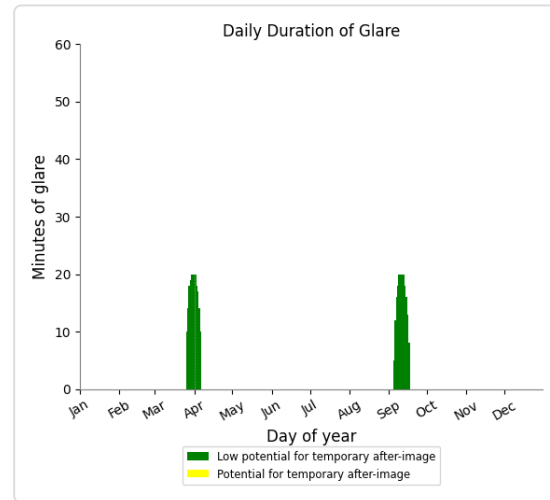
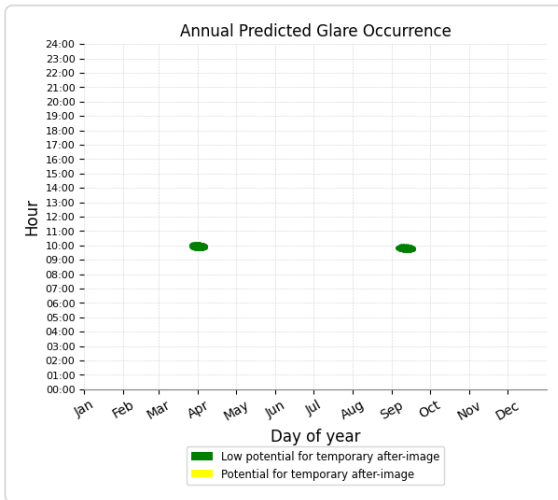
PV array 2 and Route: Approach_05R

No glare found

PV array 2 and OP 2

Yellow glare: none

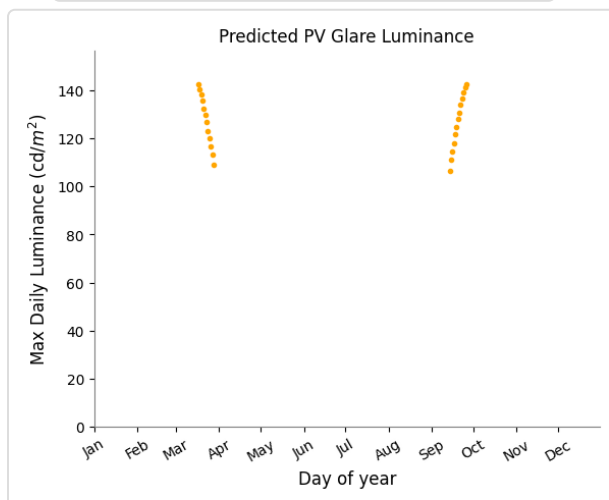
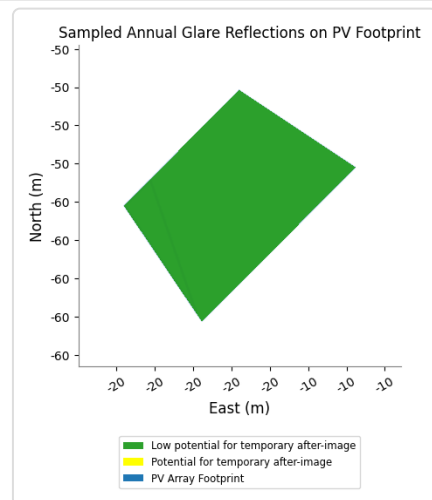
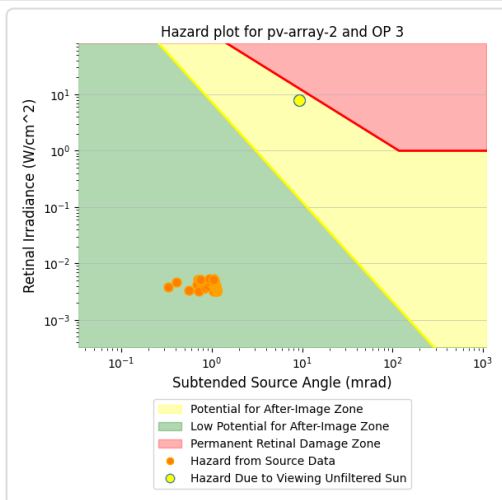
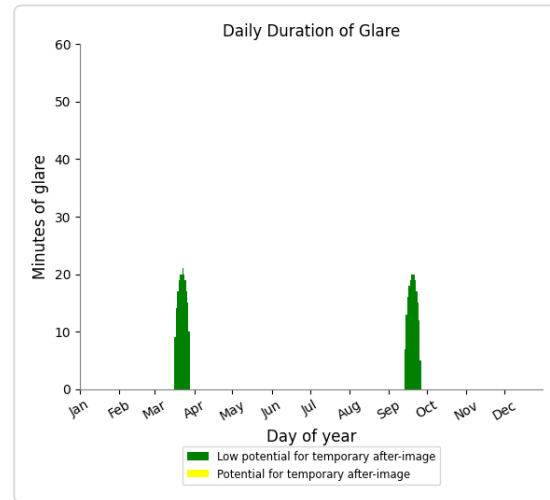
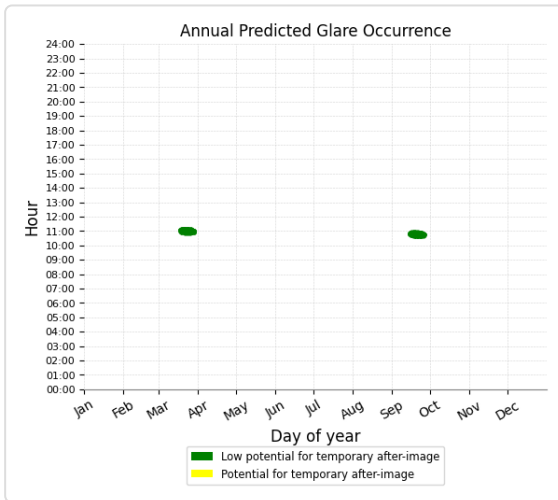
Green glare: 406 min.



PV array 2 and OP 3

Yellow glare: none

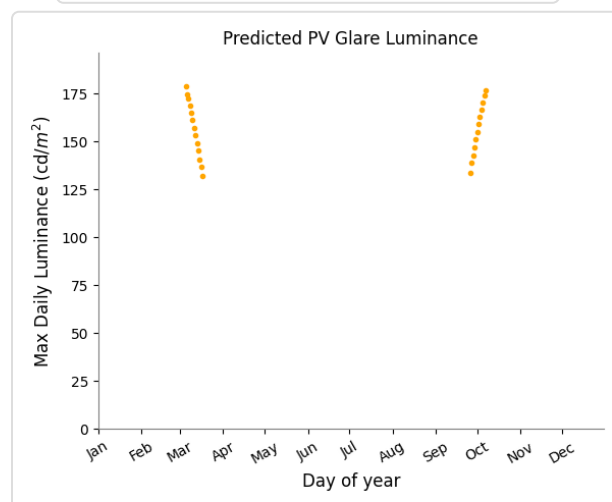
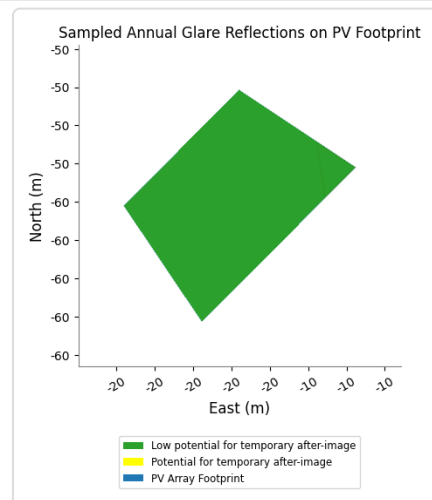
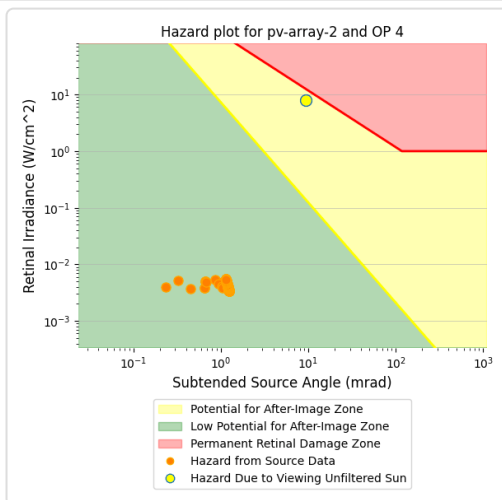
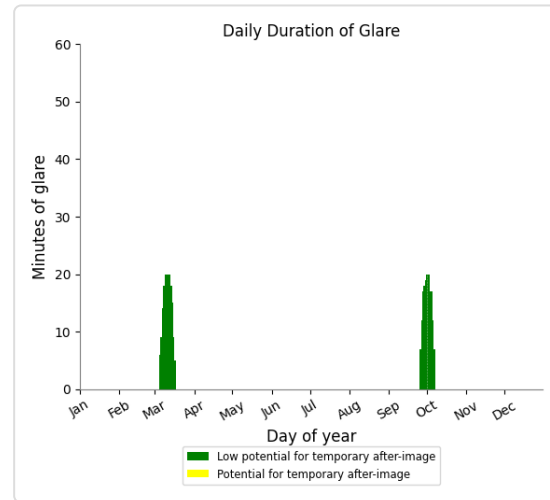
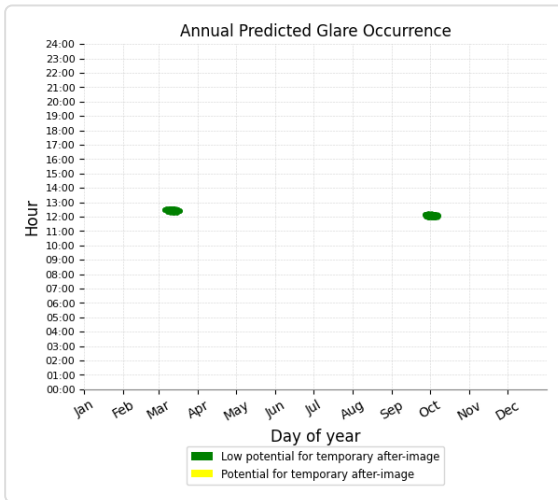
Green glare: 402 min.



PV array 2 and OP 4

Yellow glare: none

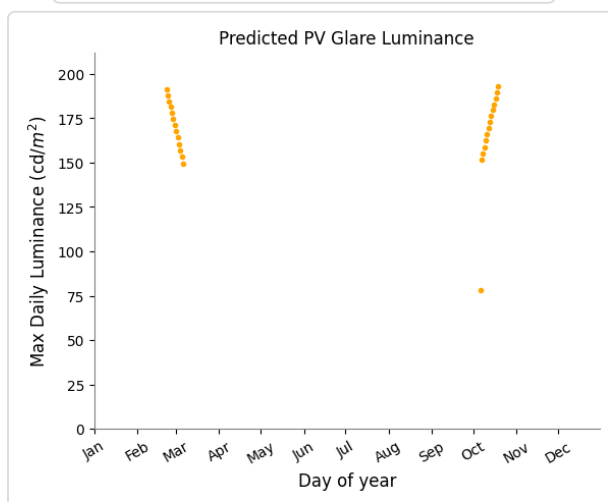
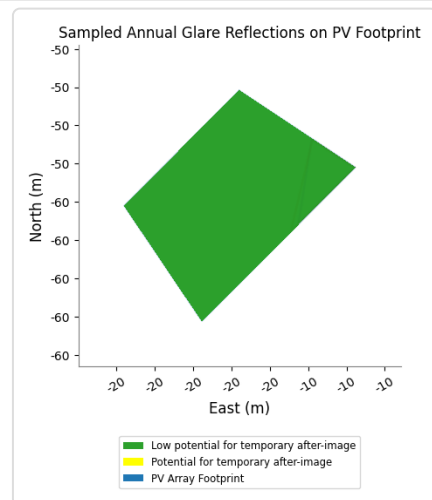
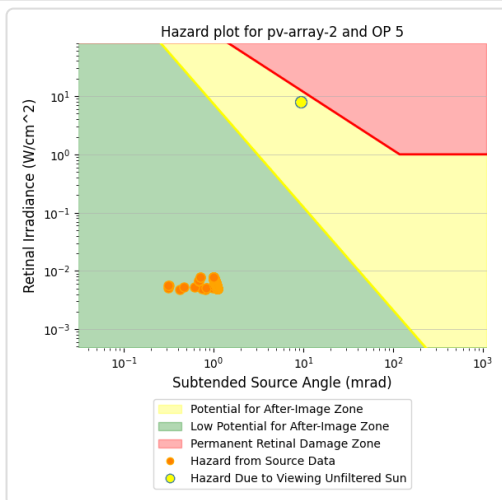
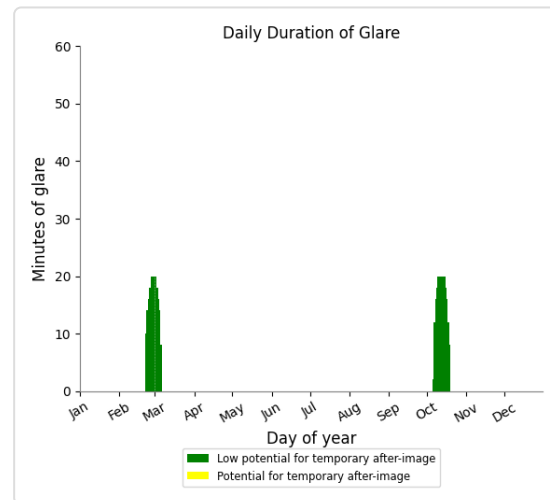
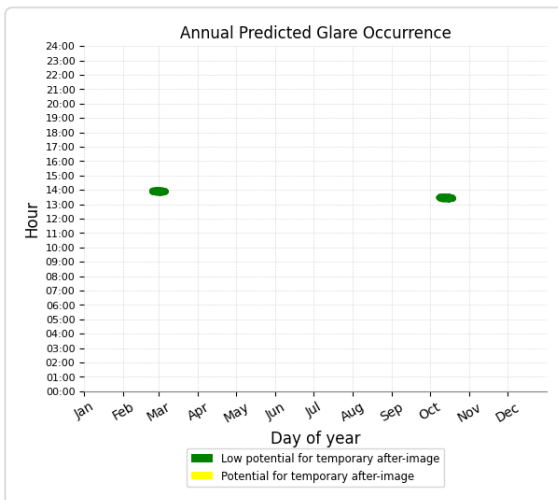
Green glare: 380 min.



PV array 2 and OP 5

Yellow glare: none

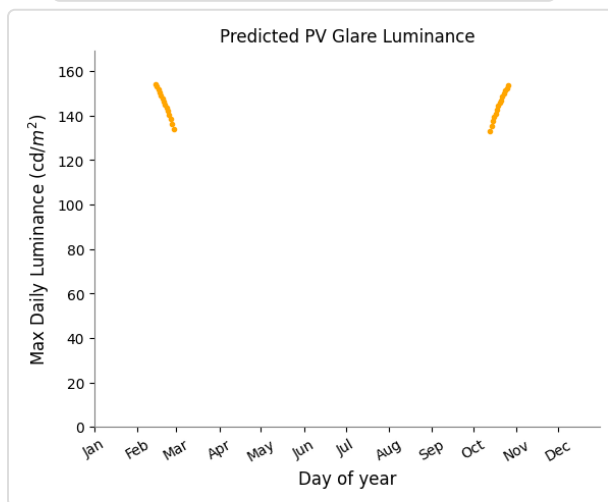
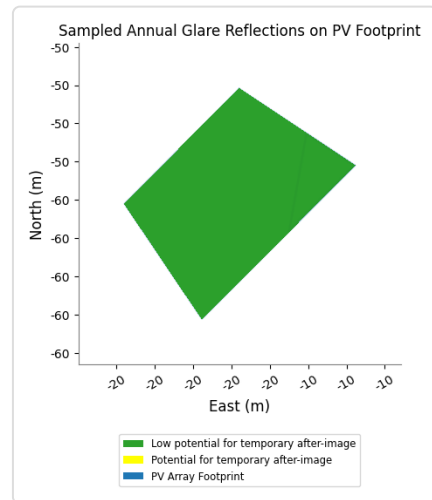
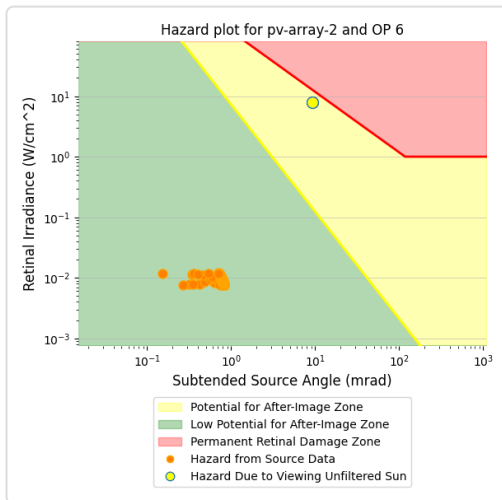
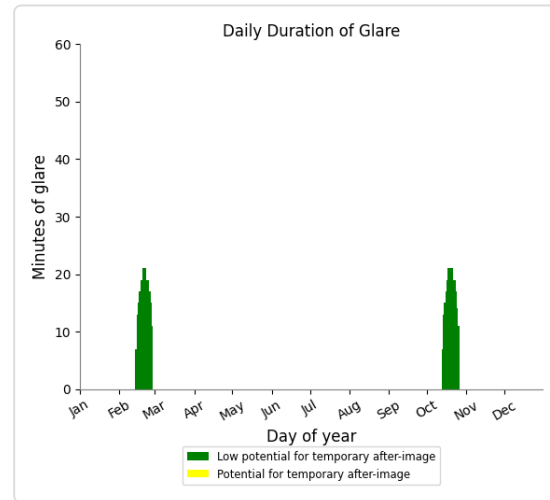
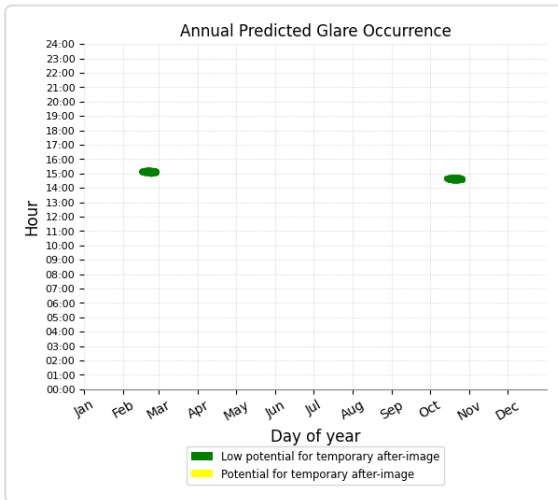
Green glare: 436 min.



PV array 2 and OP 6

Yellow glare: none

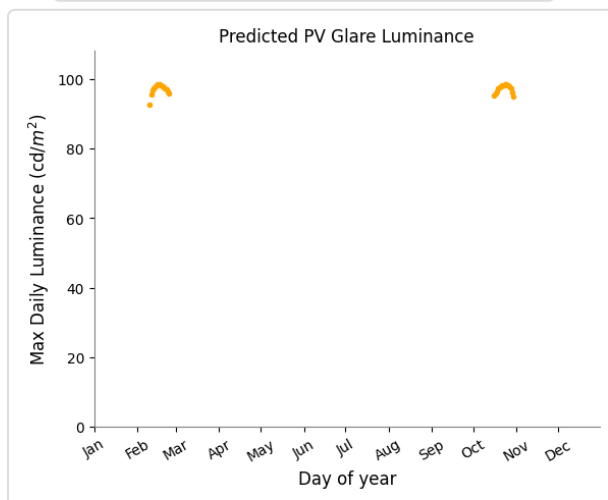
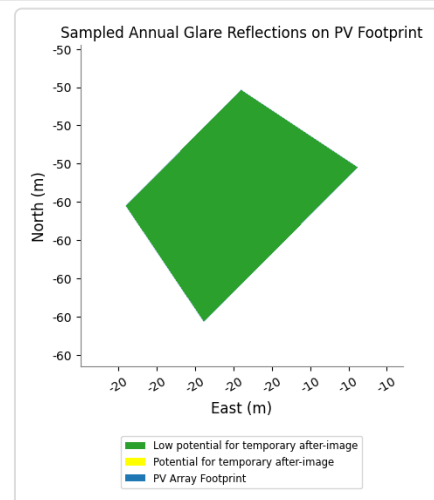
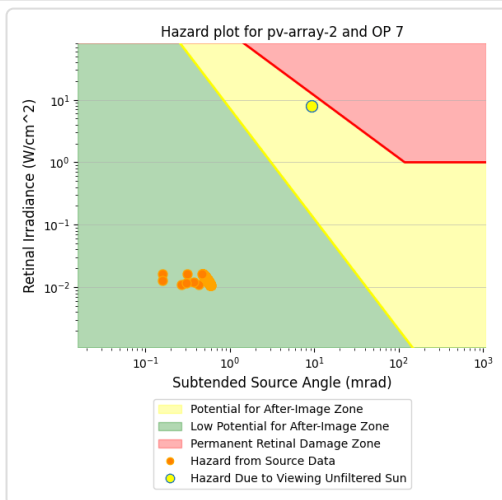
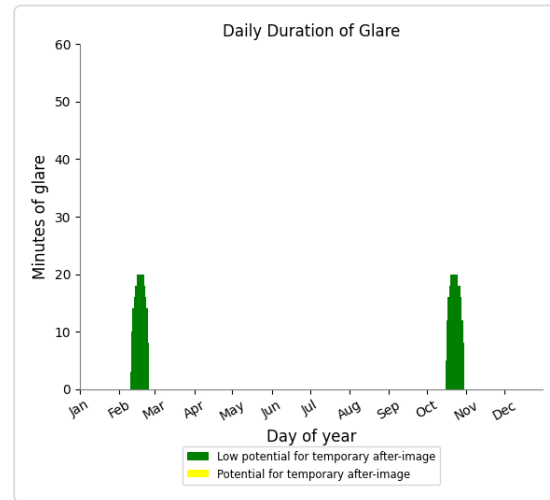
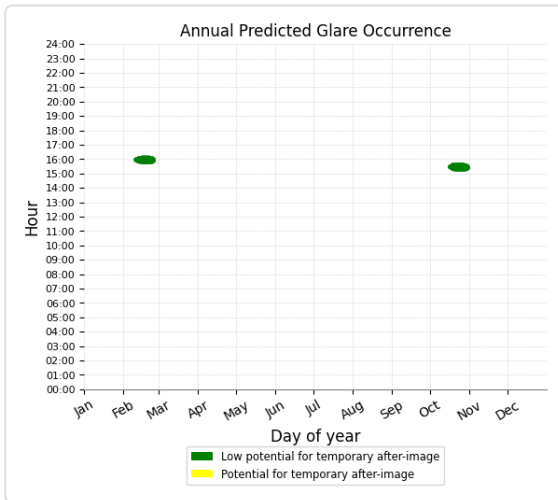
Green glare: 469 min.



PV array 2 and OP 7

Yellow glare: none

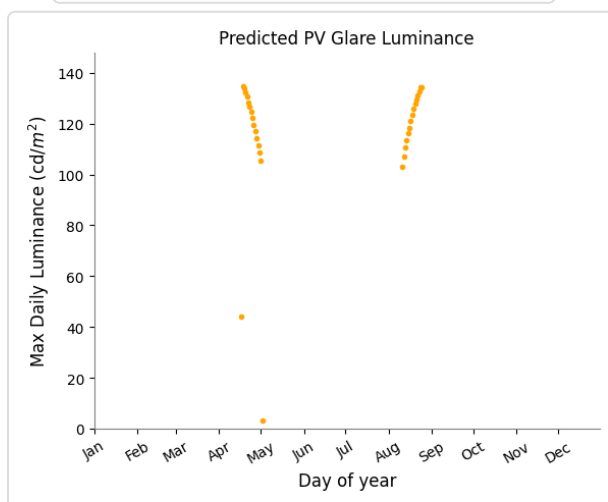
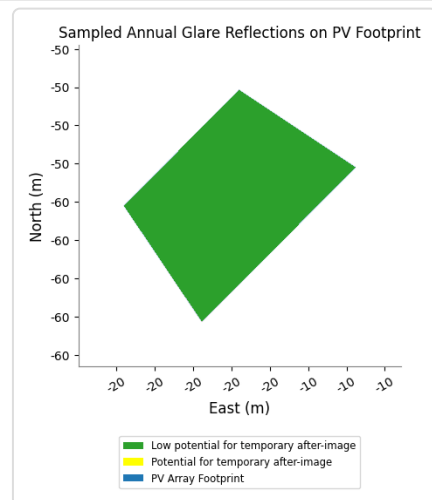
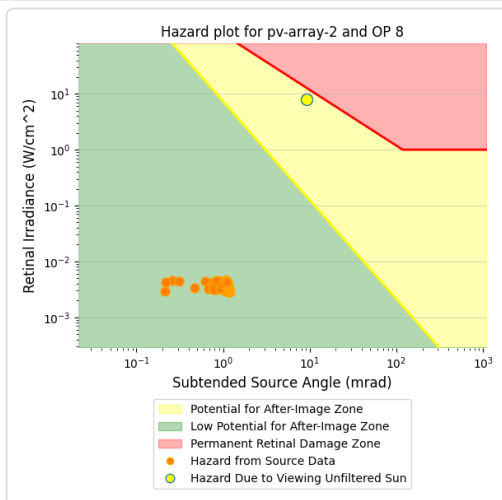
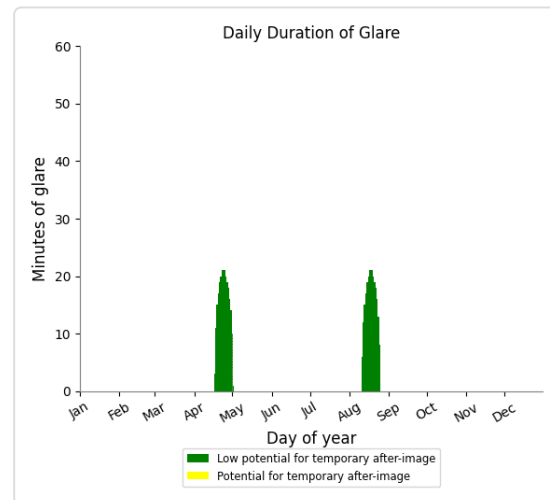
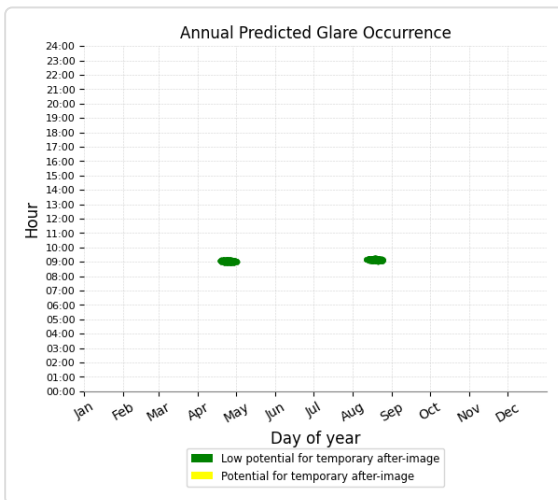
Green glare: 480 min.



PV array 2 and OP 8

Yellow glare: none

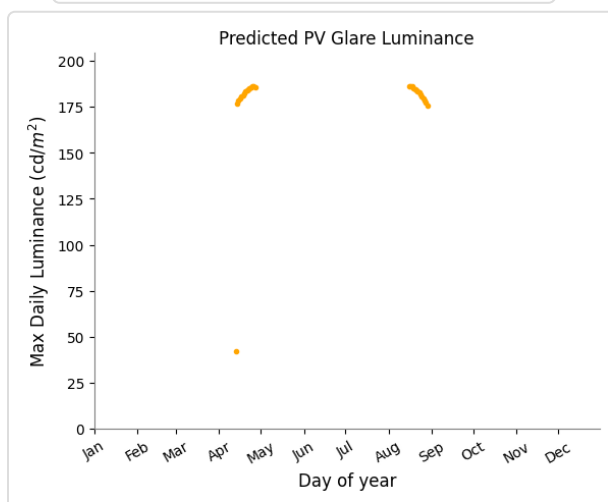
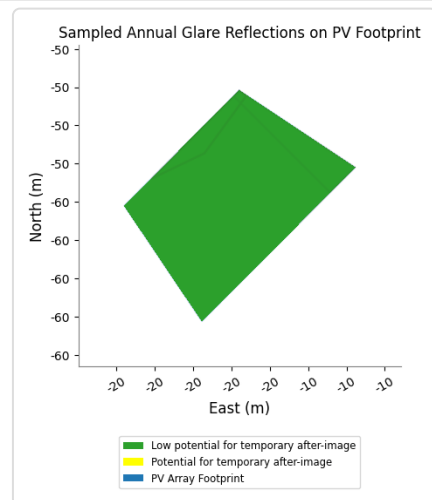
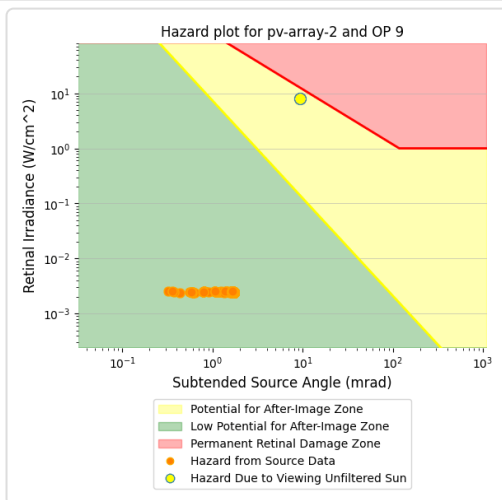
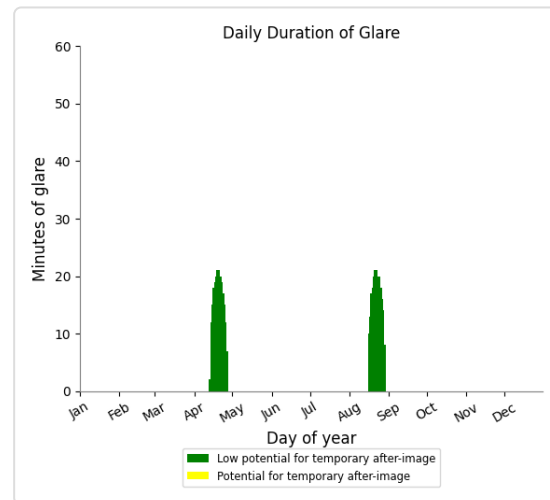
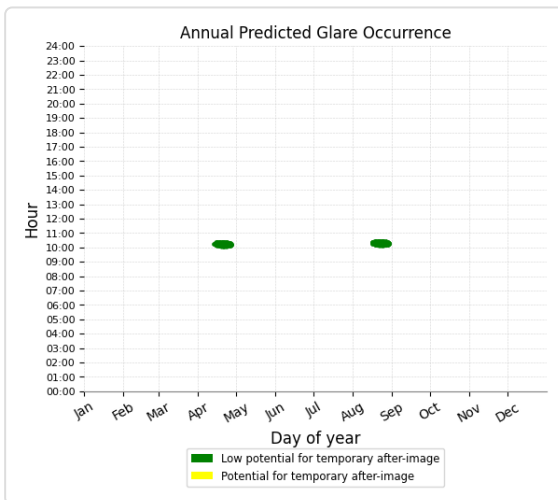
Green glare: 492 min.



PV array 2 and OP 9

Yellow glare: none

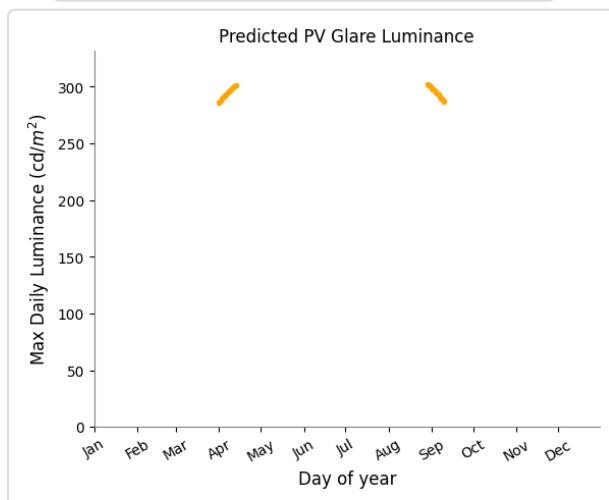
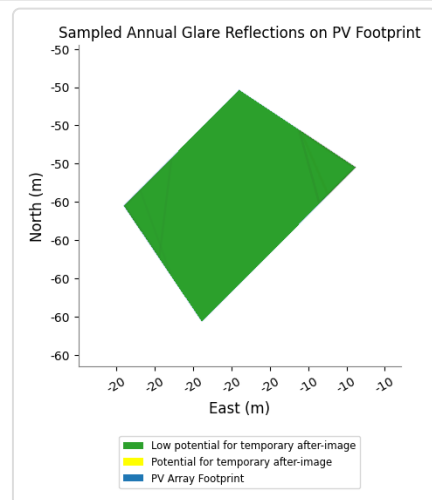
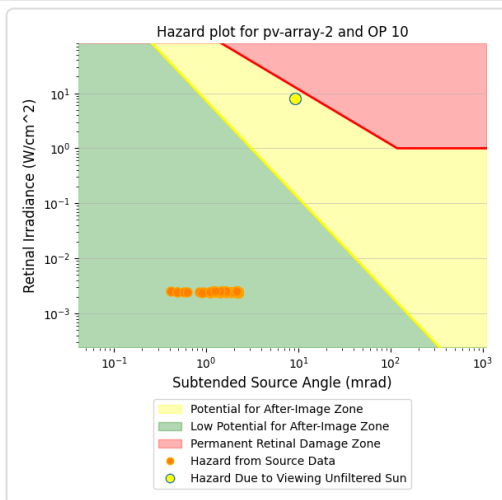
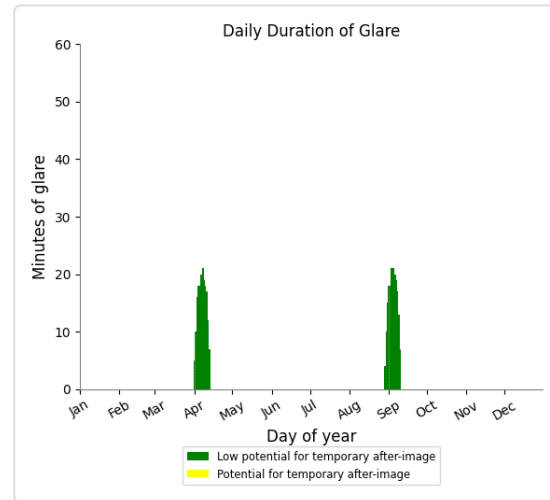
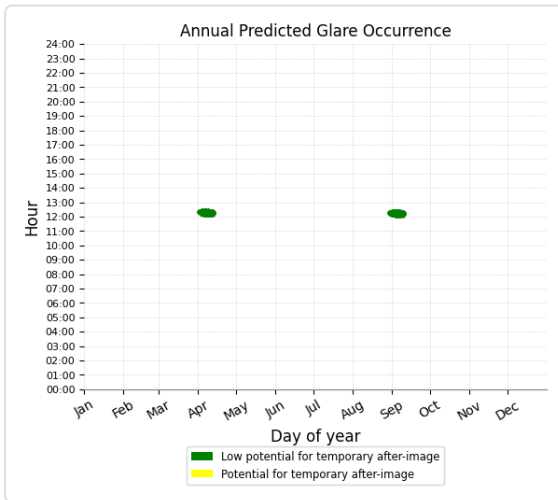
Green glare: 476 min.



PV array 2 and OP 10

Yellow glare: none

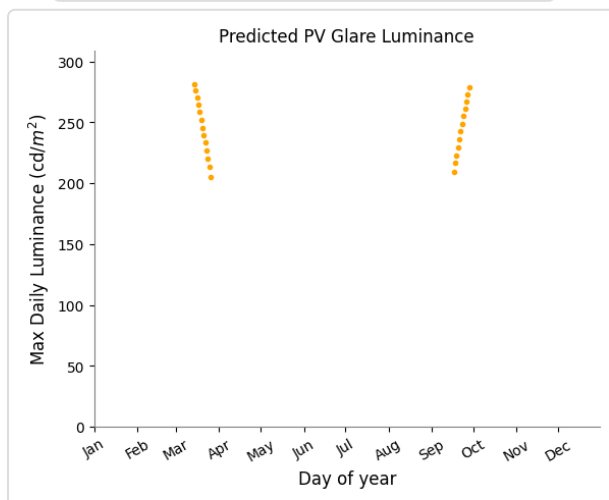
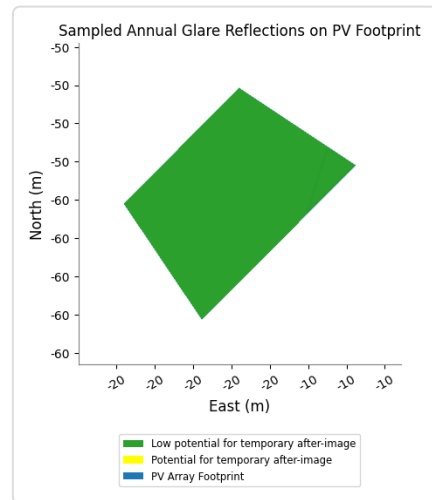
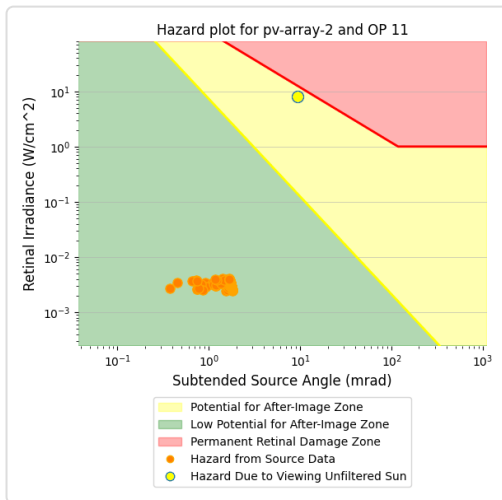
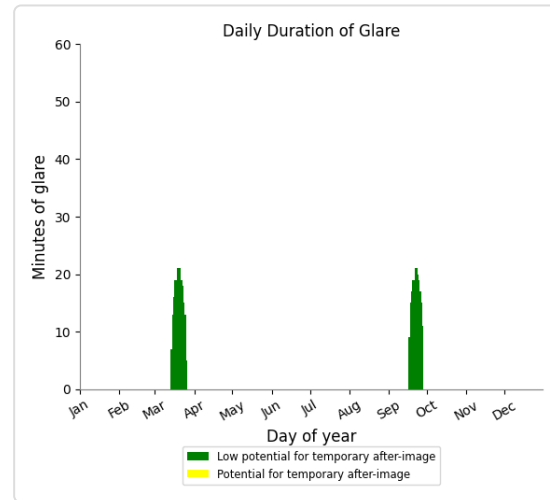
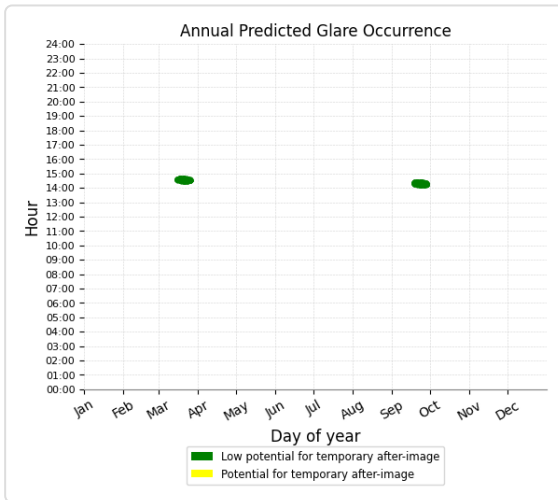
Green glare: 405 min.



PV array 2 and OP 11

Yellow glare: none

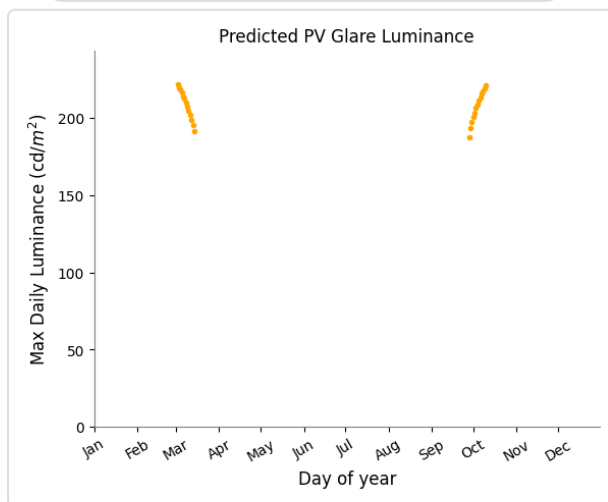
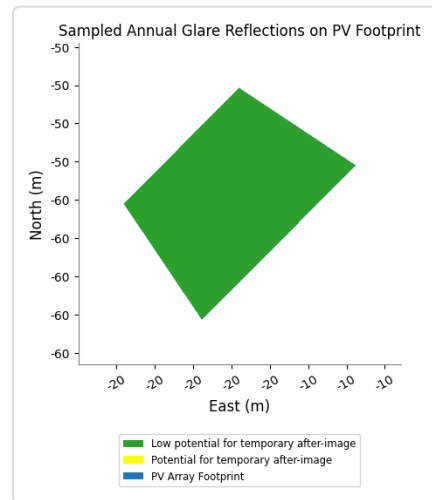
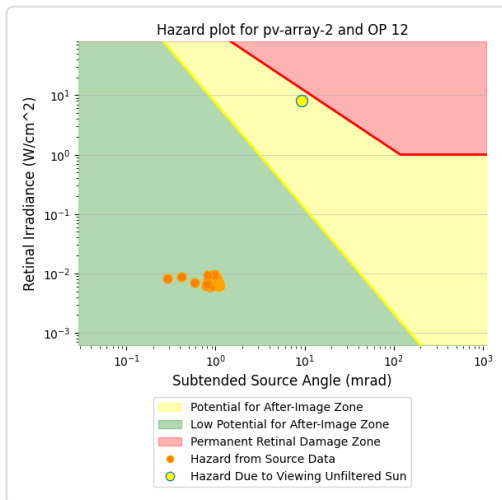
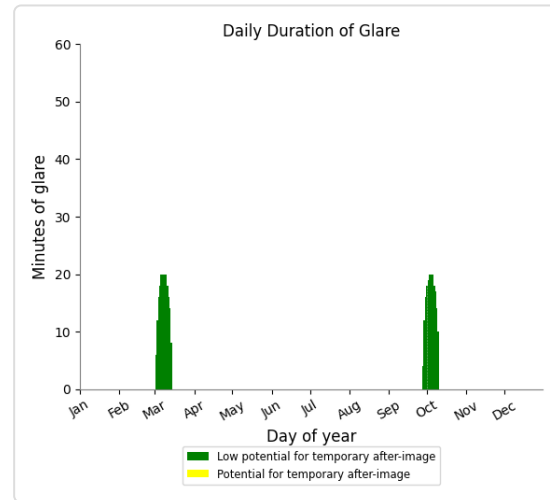
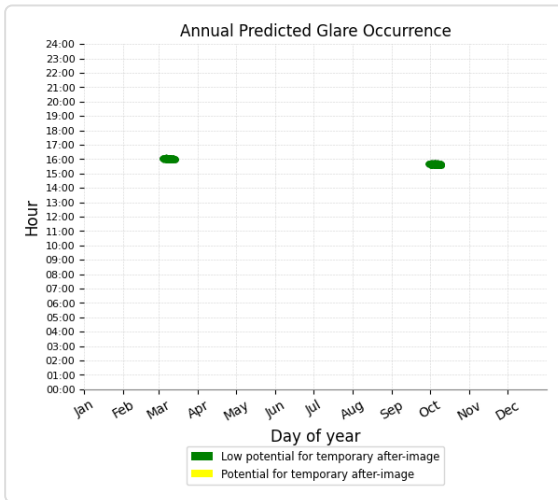
Green glare: 410 min.



PV array 2 and OP 12

Yellow glare: none

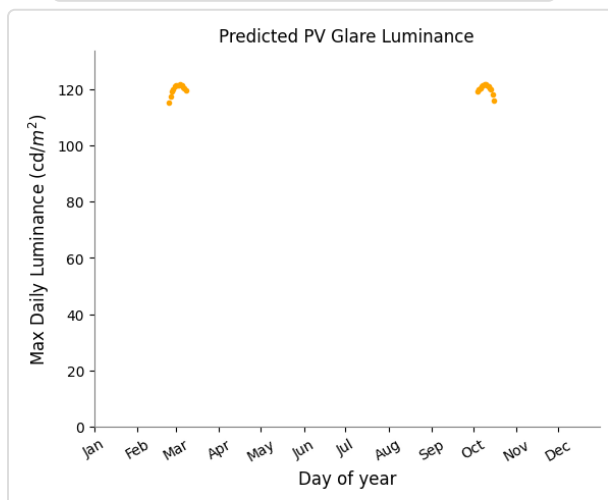
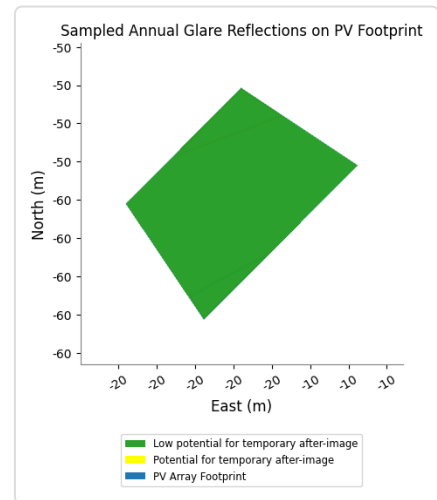
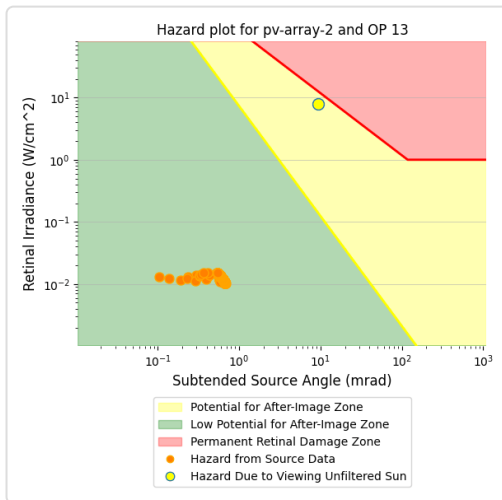
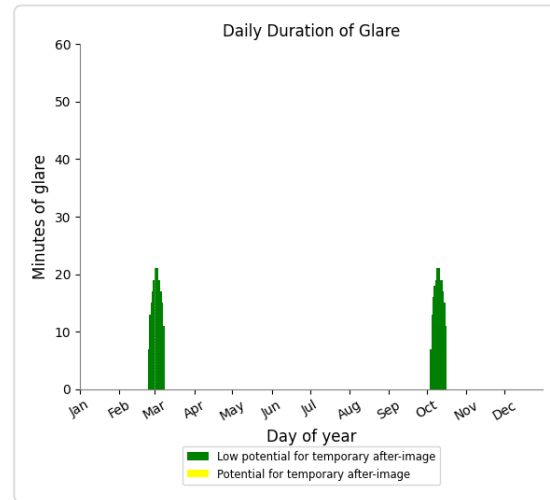
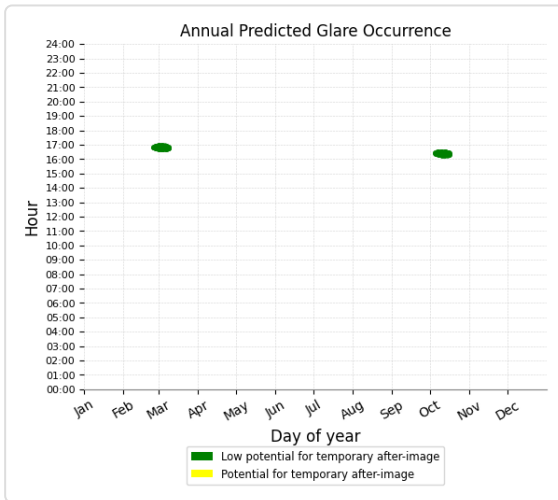
Green glare: 416 min.



PV array 2 and OP 13

Yellow glare: none

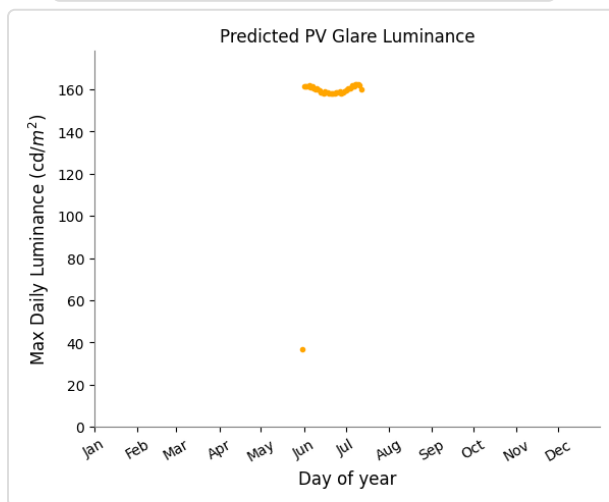
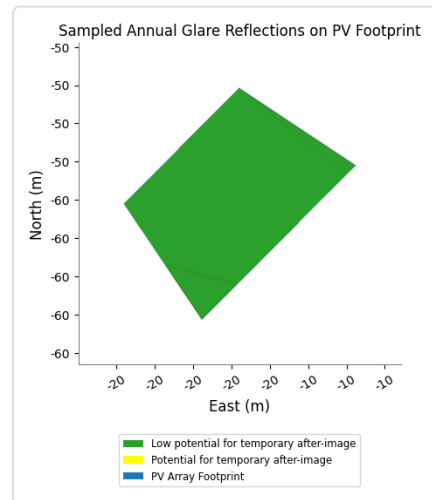
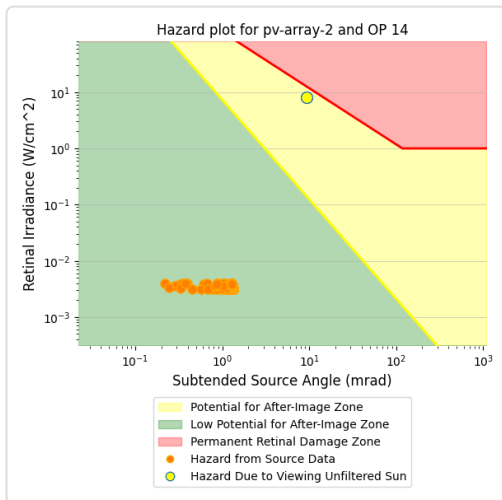
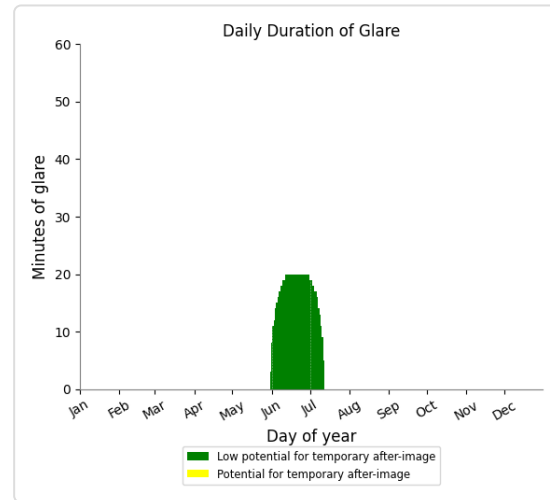
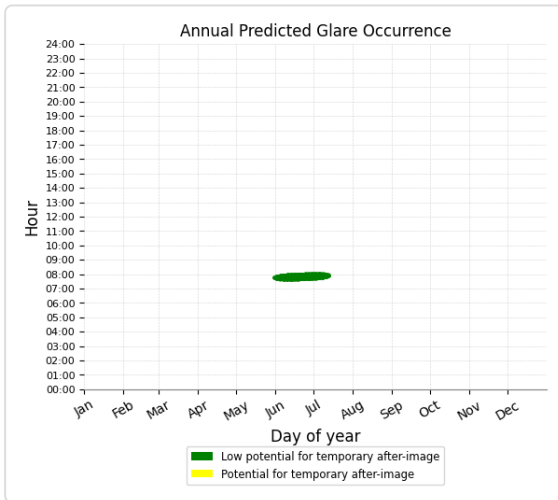
Green glare: 432 min.



PV array 2 and OP 14

Yellow glare: none

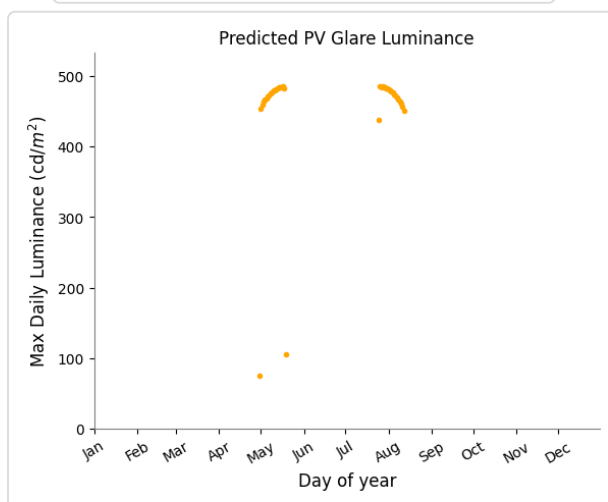
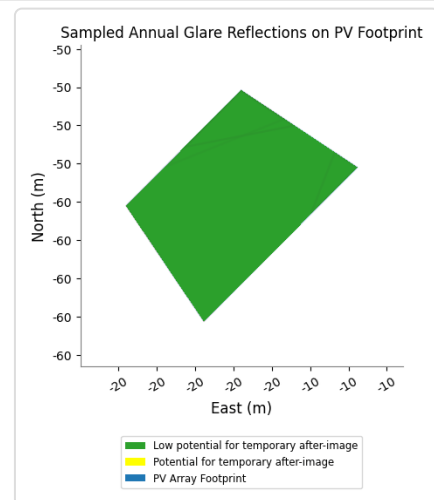
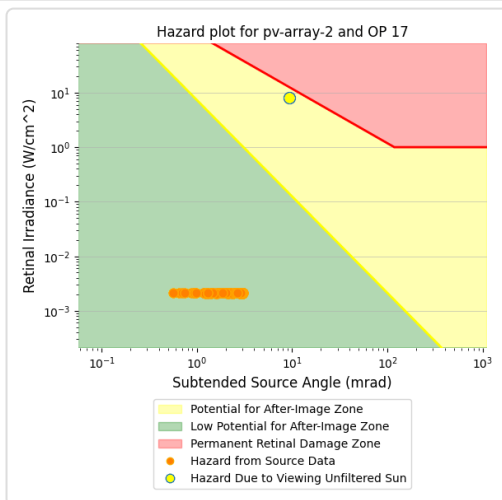
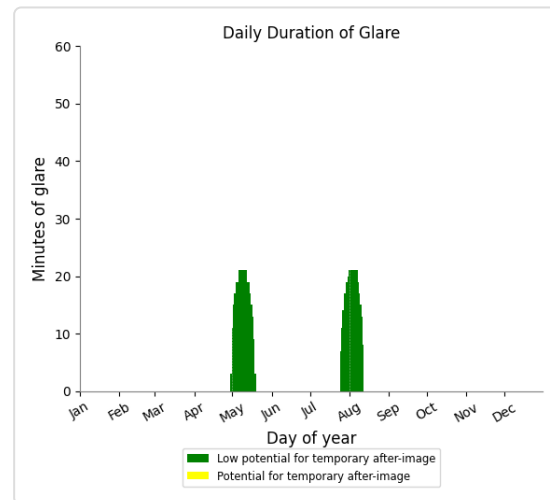
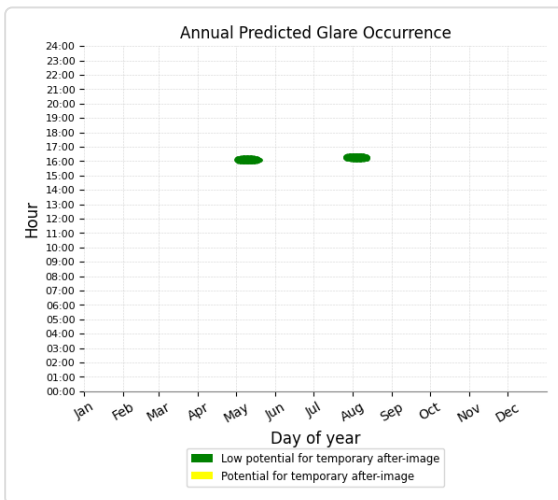
Green glare: 726 min.



PV array 2 and OP 17

Yellow glare: none

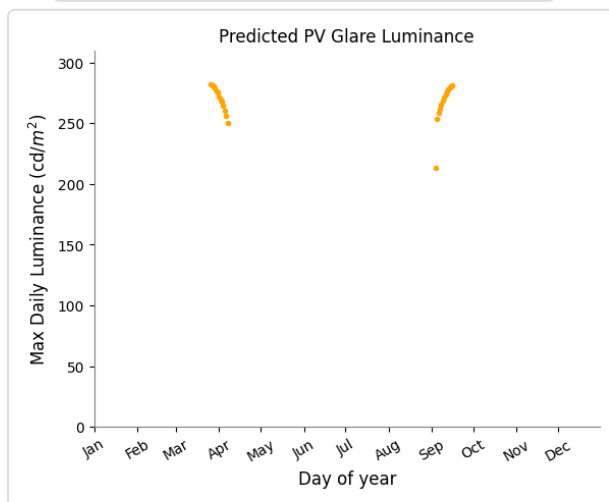
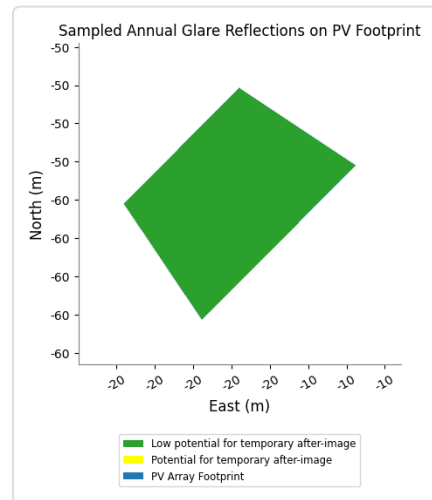
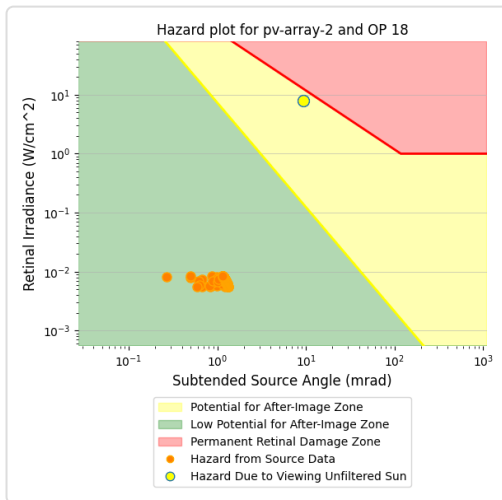
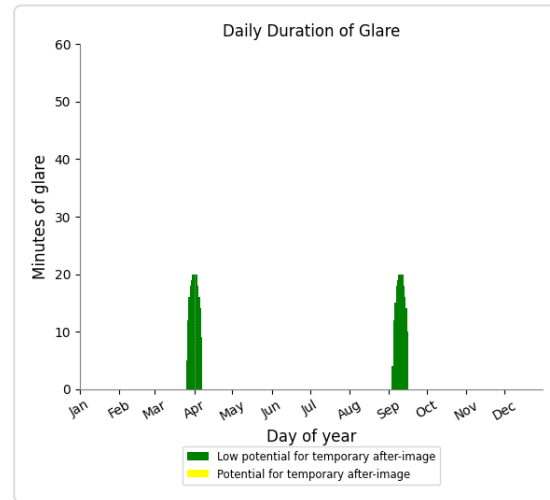
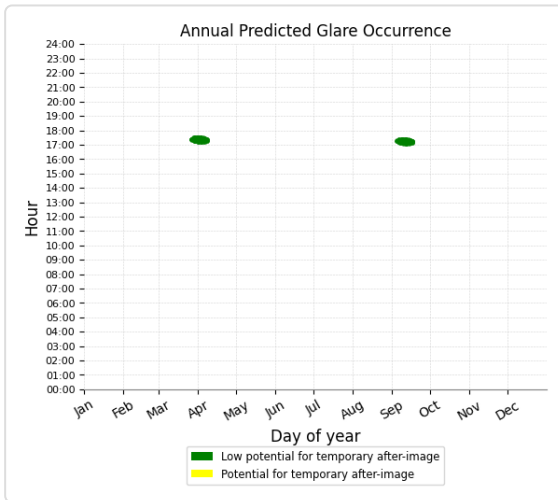
Green glare: 650 min.



PV array 2 and OP 18

Yellow glare: none

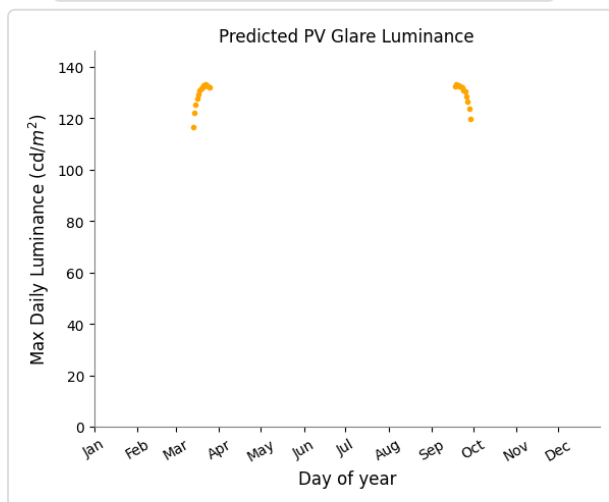
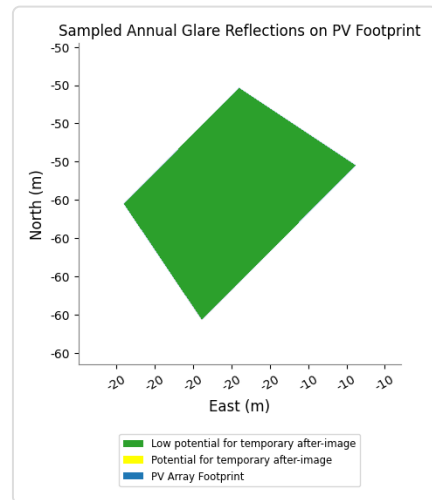
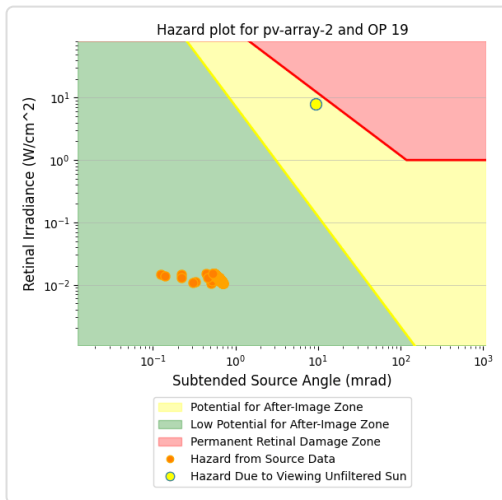
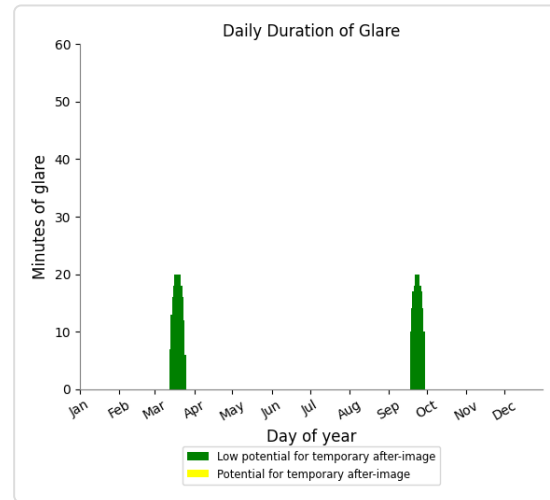
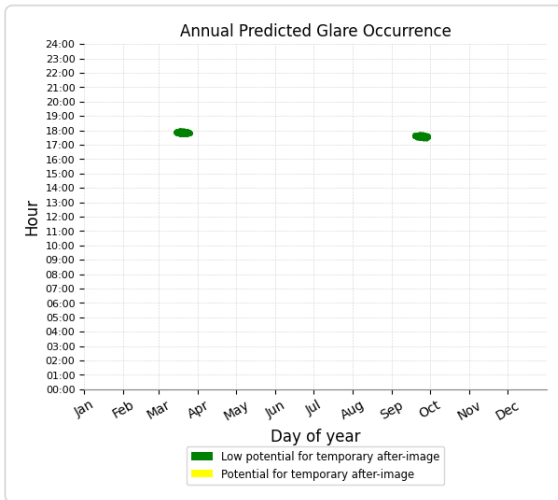
Green glare: 413 min.



PV array 2 and OP 19

Yellow glare: none

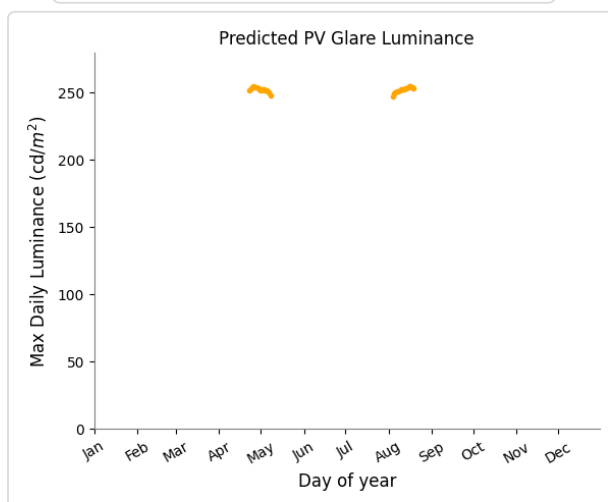
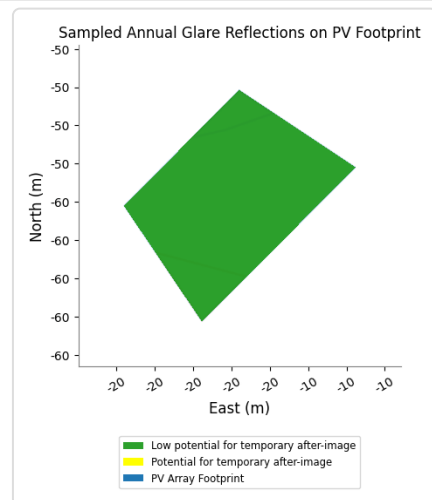
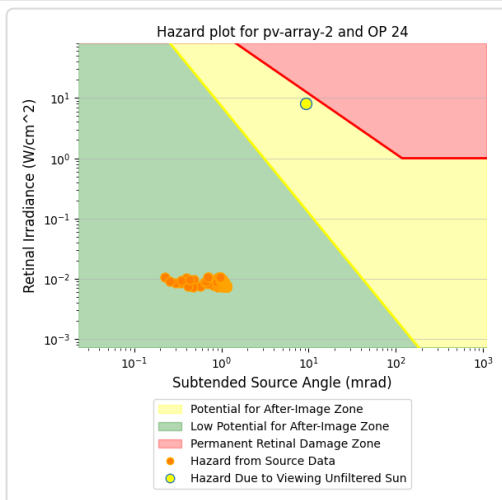
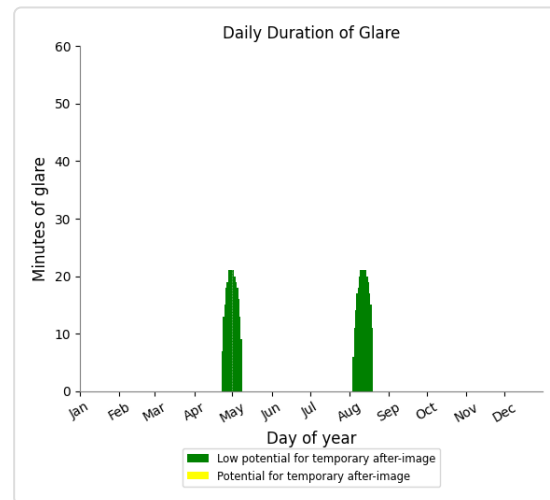
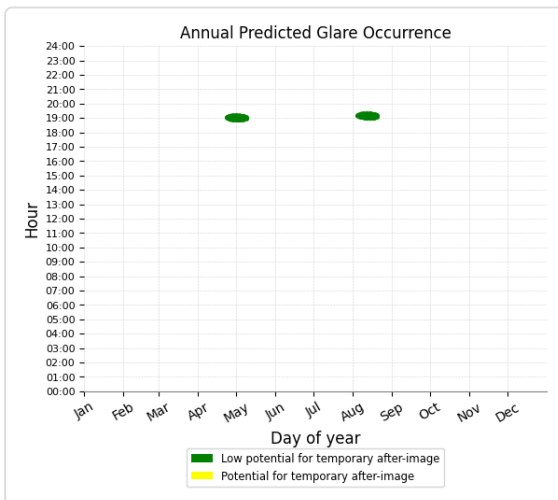
Green glare: 404 min.



PV array 2 and OP 24

Yellow glare: none

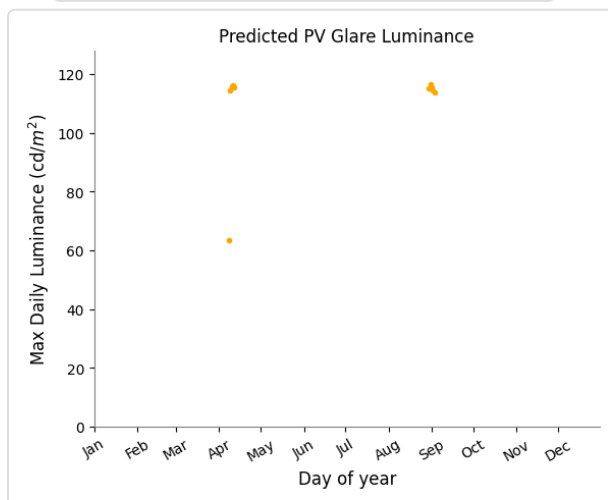
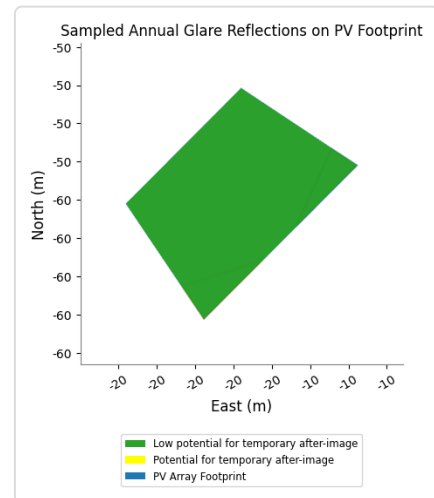
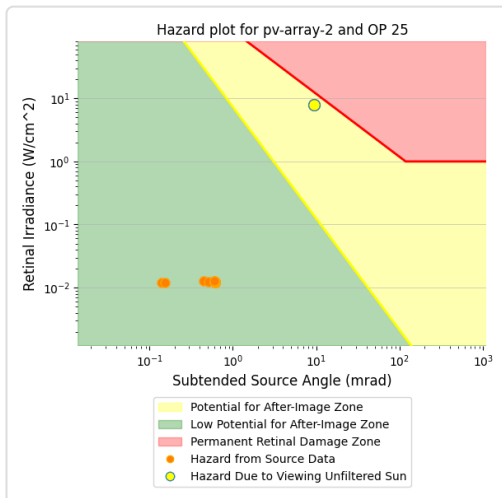
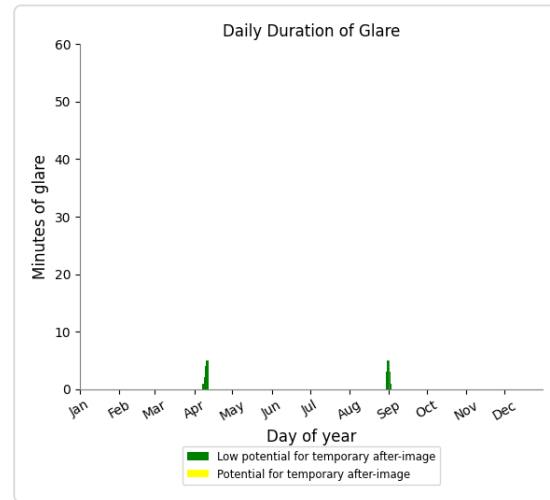
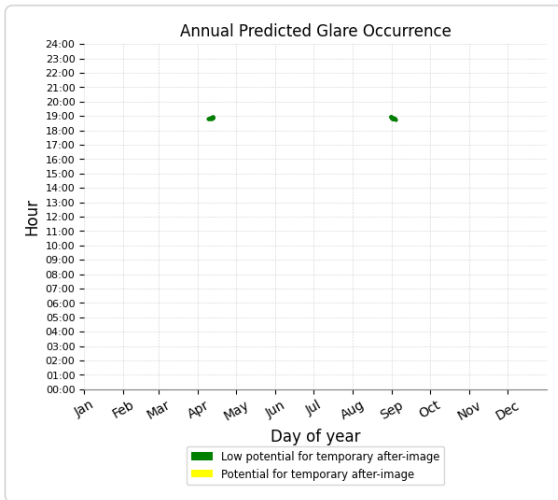
Green glare: 545 min.



PV array 2 and OP 25

Yellow glare: none

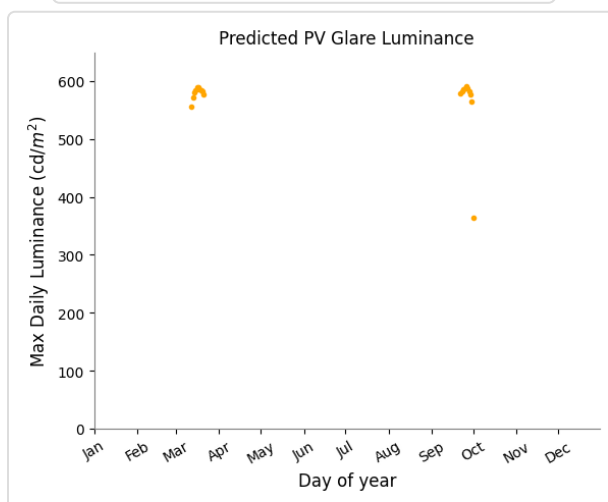
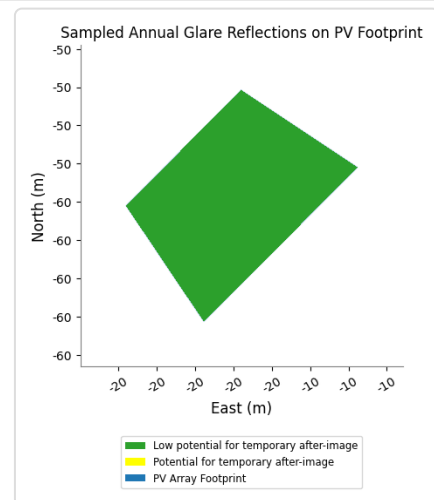
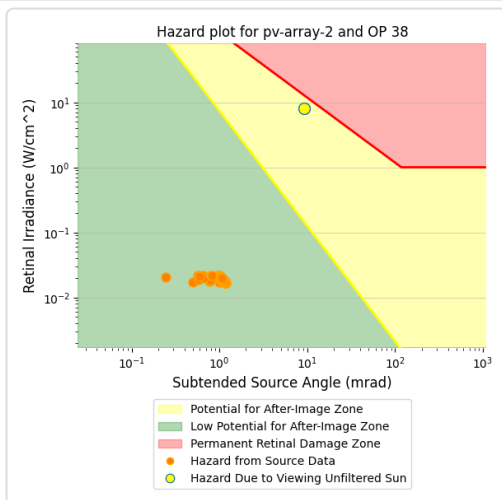
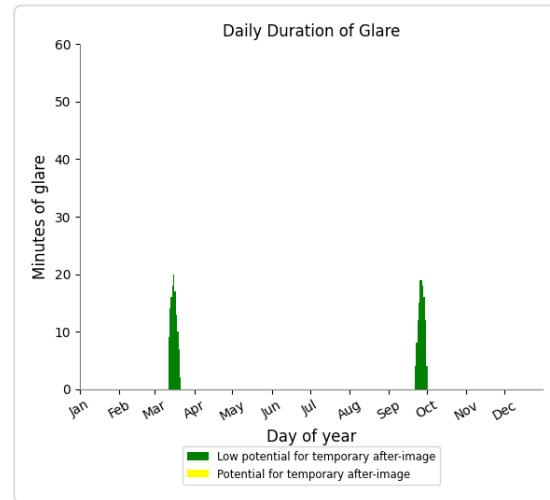
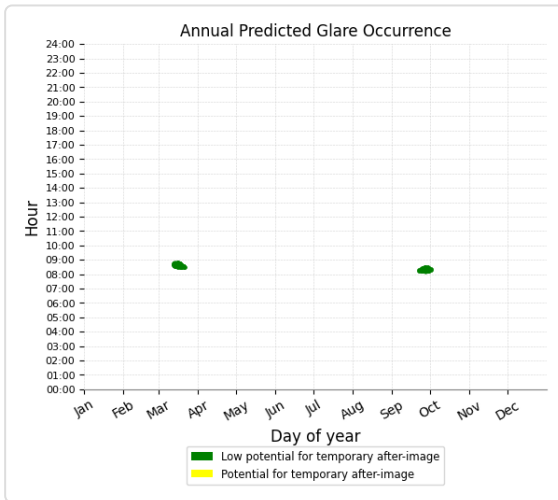
Green glare: 34 min.



PV array 2 and OP 38

Yellow glare: none

Green glare: 253 min.



PV array 2 and 1-ATCT

No glare found

PV array 2 and OP 15

No glare found

PV array 2 and OP 16

No glare found

PV array 2 and OP 20

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 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 39

No glare found

PV array 2 and OP 40

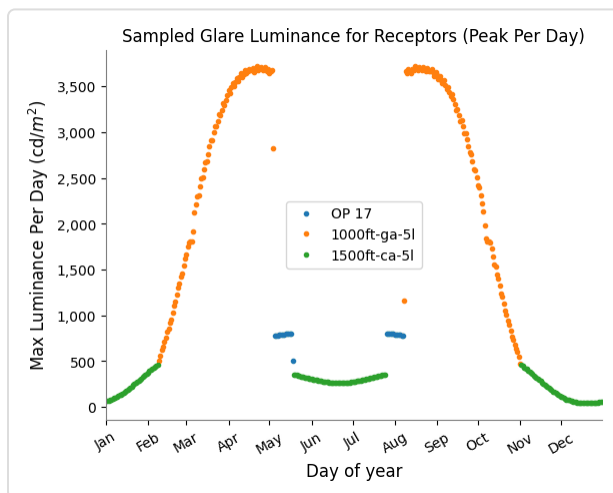
No glare found

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- R_23R-L	4,590	76.5	0	0.0	3,716
1000Ft- GA_5R23L_05R- R_23L-L	2,502	41.7	0	0.0	2,470
1500Ft- CA_5L23R_05L- R_23R-L	21,962	366.0	0	0.0	554
Approach_23L	161	2.7	0	0.0	9
Approach_23R	258	4.3	0	0.0	10
1000Ft- GA_5L23R_05L- L_23R-R	0	0.0	0	0.0	0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
1500Ft- CA_5L23R_05L- L_23R-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 2	413	6.9	0	0.0	176
OP 3	410	6.8	0	0.0	233
OP 4	405	6.8	0	0.0	289
OP 5	443	7.4	0	0.0	317
OP 6	472	7.9	0	0.0	254
OP 7	485	8.1	0	0.0	163
OP 8	498	8.3	0	0.0	220
OP 9	479	8.0	0	0.0	297
OP 10	423	7.0	0	0.0	481
OP 11	415	6.9	0	0.0	459
OP 12	421	7.0	0	0.0	365
OP 13	434	7.2	0	0.0	202
OP 14	863	14.4	0	0.0	265
OP 17	665	11.1	0	0.0	800
OP 18	417	7.0	0	0.0	467
OP 19	411	6.8	0	0.0	222
OP 24	552	9.2	0	0.0	426
OP 25	44	0.7	0	0.0	195

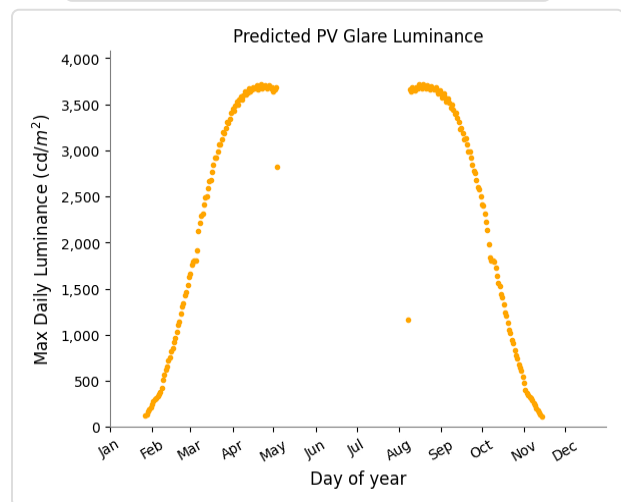
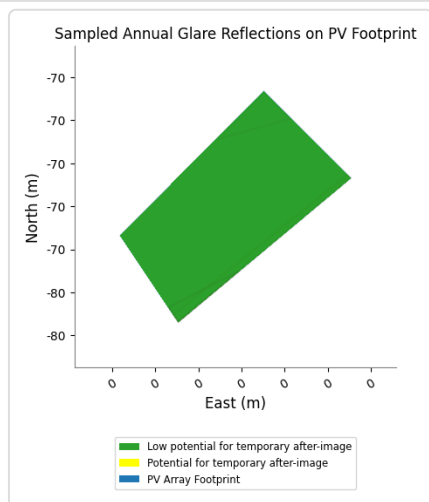
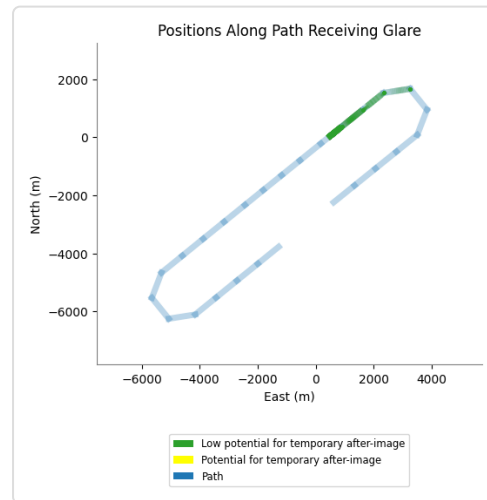
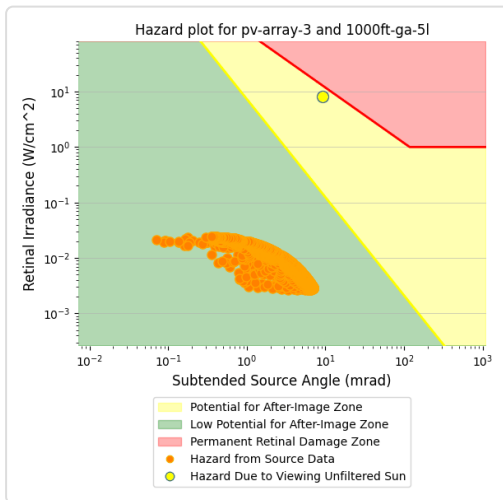
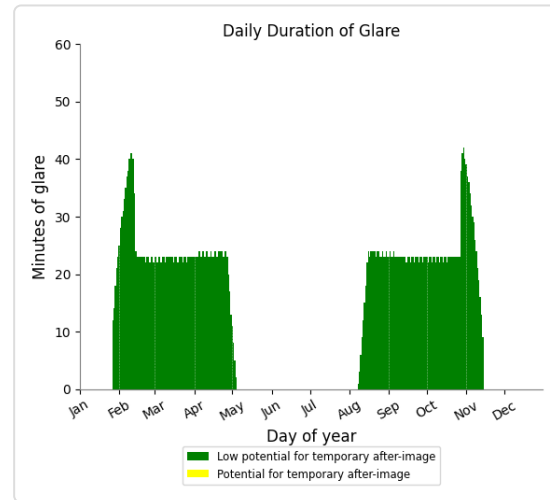
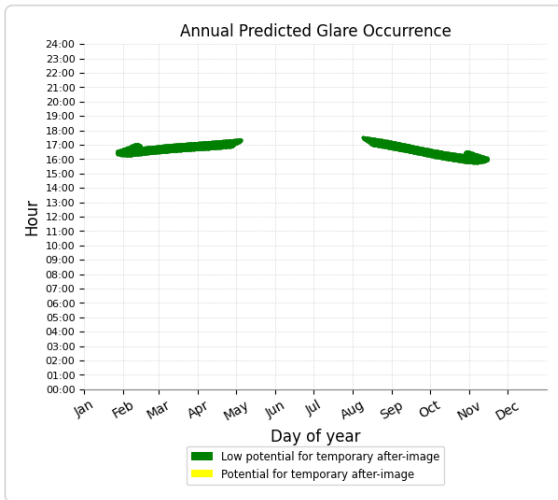
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 38	265	4.4	0	0.0	943
1-ATCT	0	0.0	0	0.0	0
OP 15	0	0.0	0	0.0	0
OP 16	0	0.0	0	0.0	0
OP 20	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	0	0.0	0	0.0	0
OP 28	0	0.0	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 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-R_23R-L

Yellow glare: none

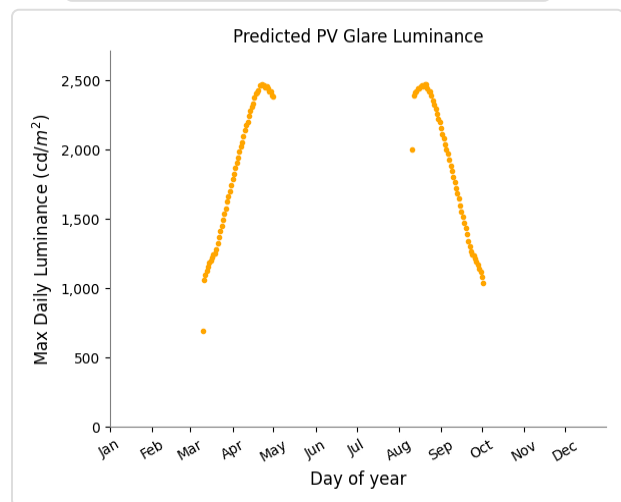
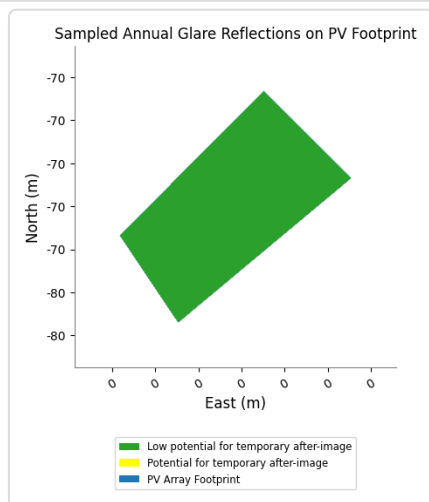
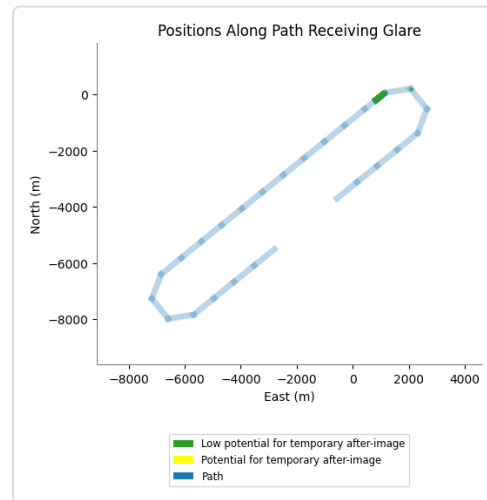
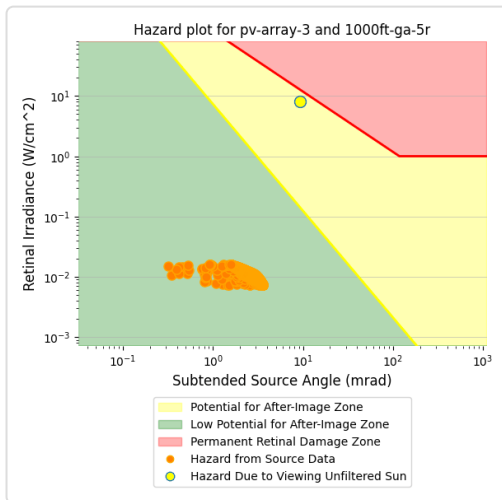
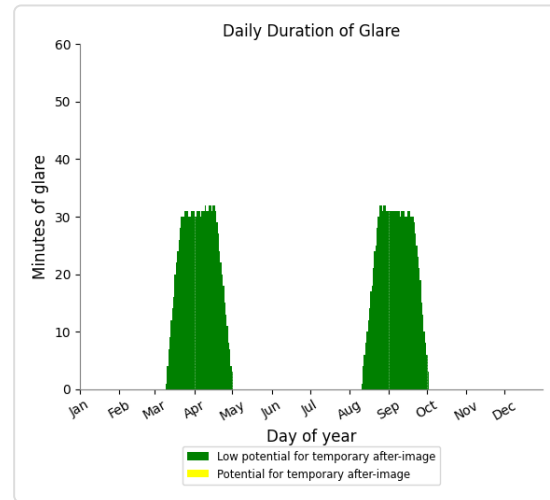
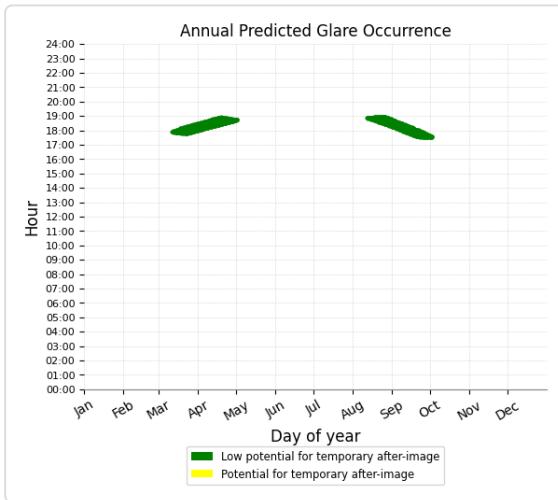
Green glare: 4,590 min.



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

Yellow glare: none

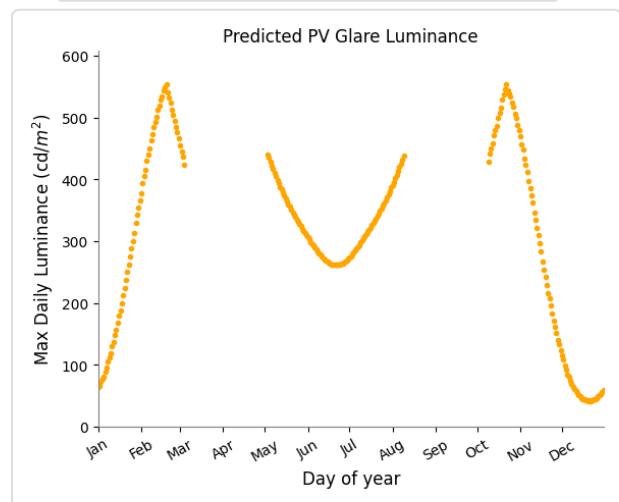
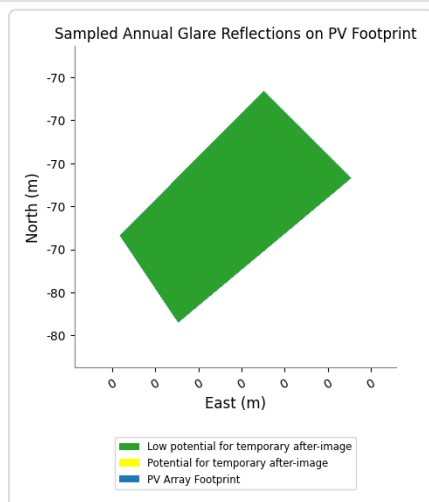
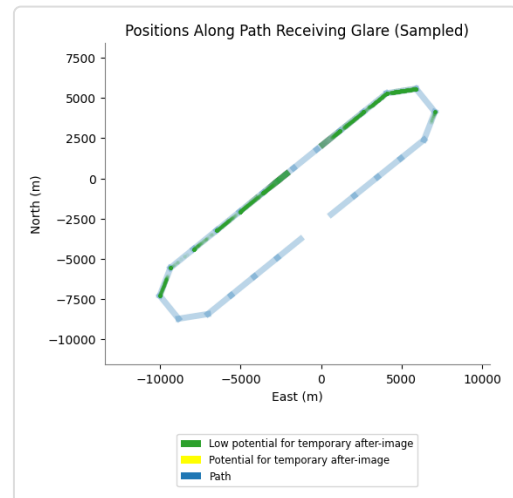
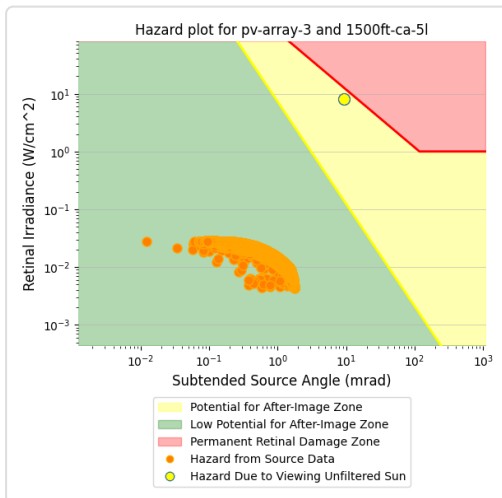
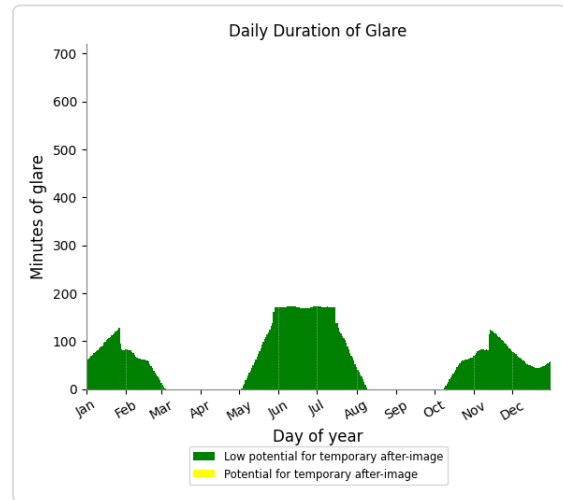
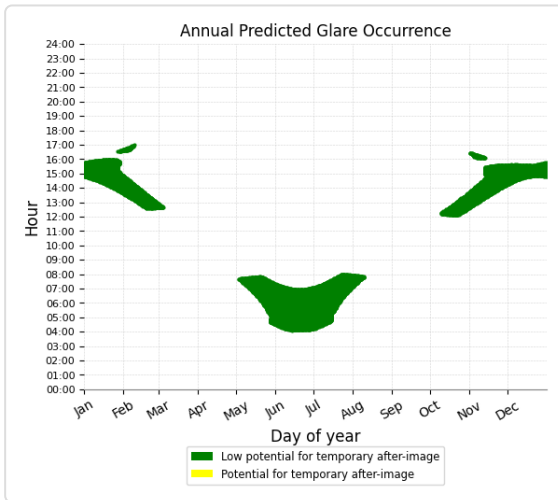
Green glare: 2,502 min.



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

Yellow glare: none

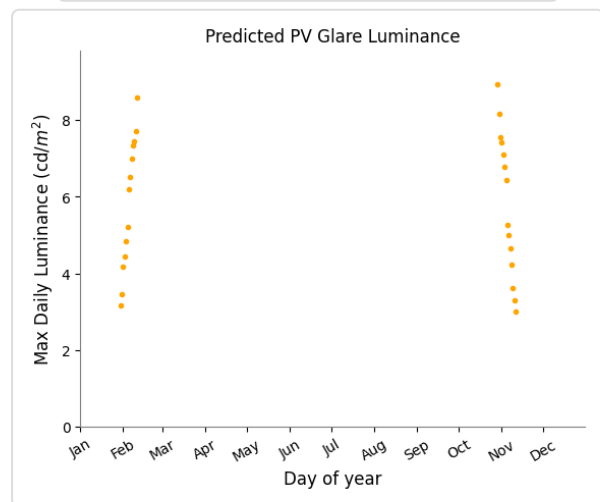
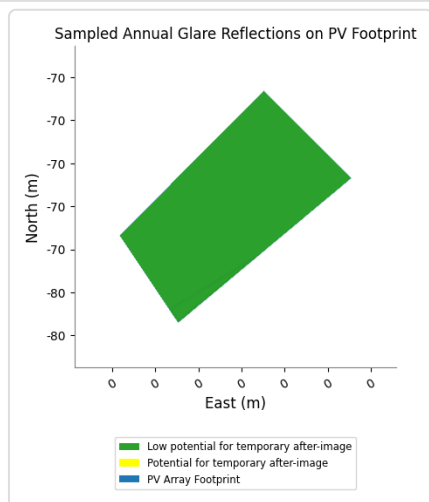
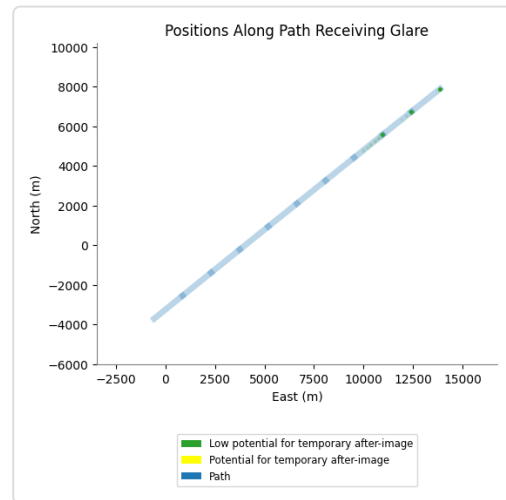
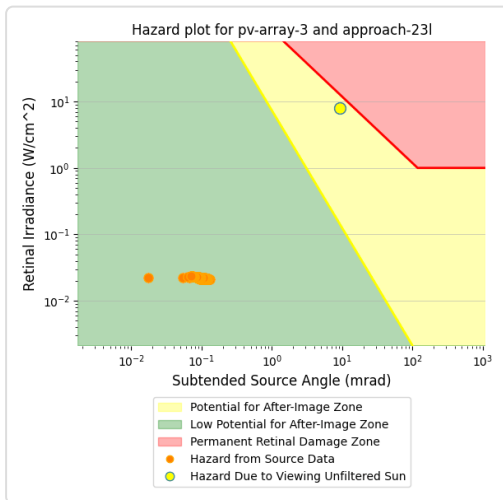
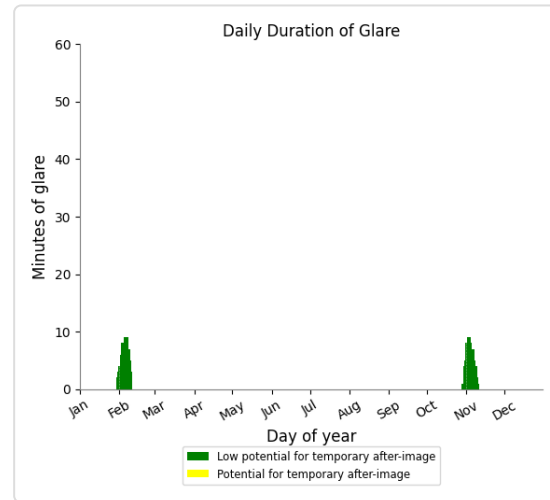
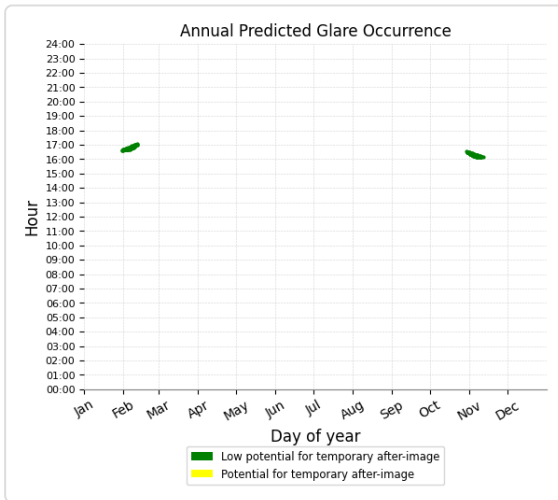
Green glare: 21,962 min.



PV array 3 and Route: Approach_23L

Yellow glare: none

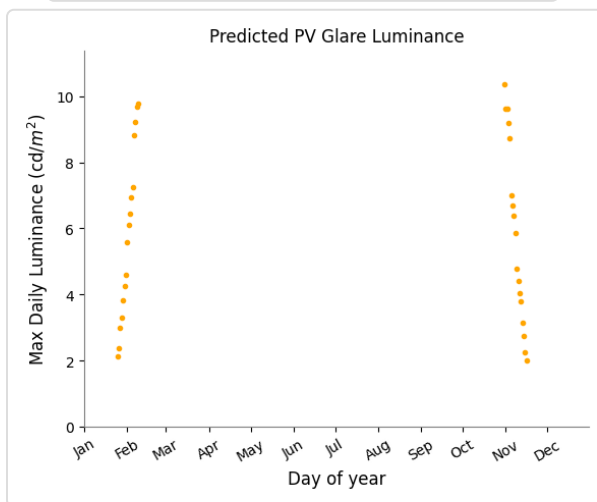
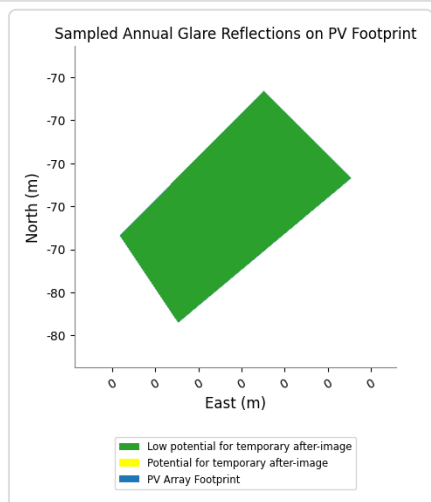
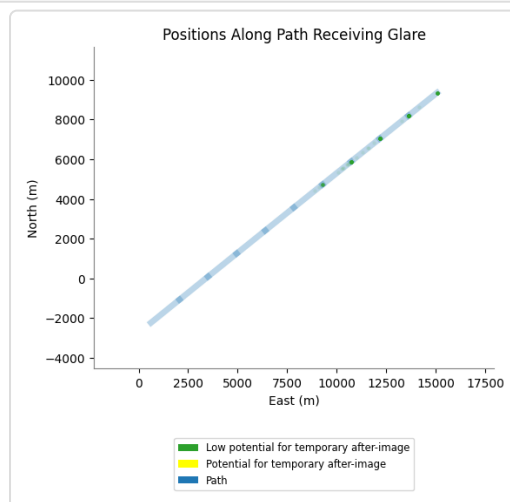
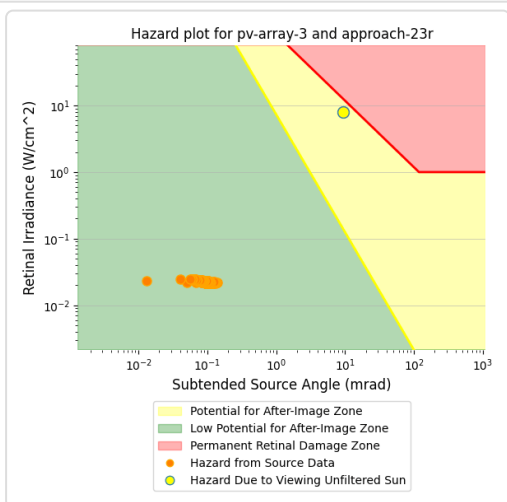
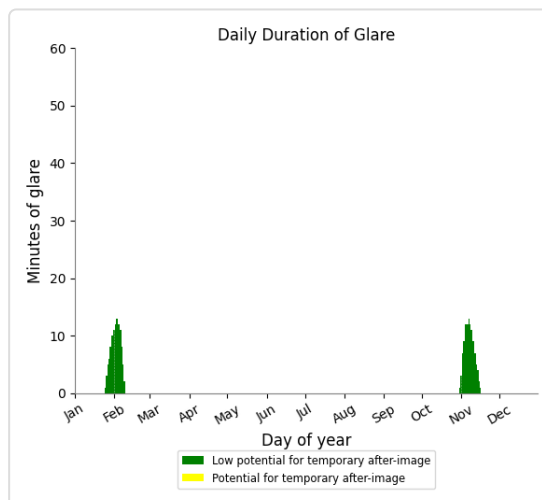
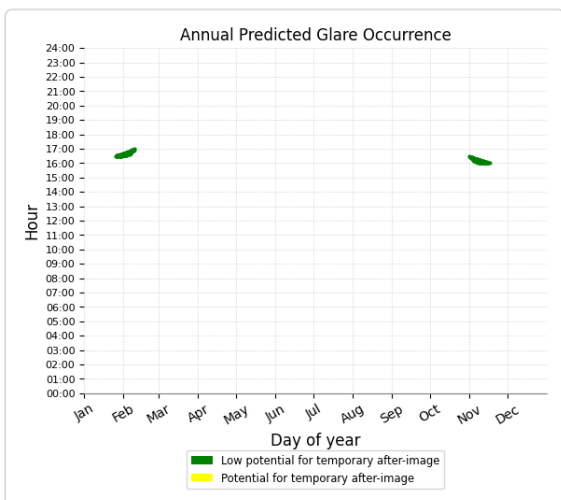
Green glare: 161 min.



PV array 3 and Route: Approach_23R

Yellow glare: none

Green glare: 258 min.



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

No glare found

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

No glare found

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

No glare found

PV array 3 and Route: Approach_05L

No glare found

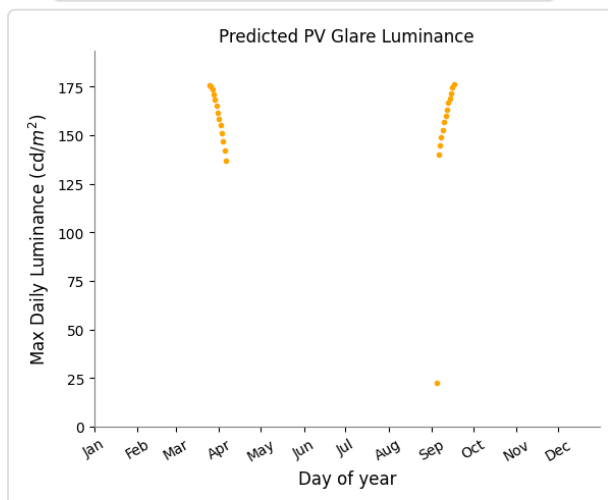
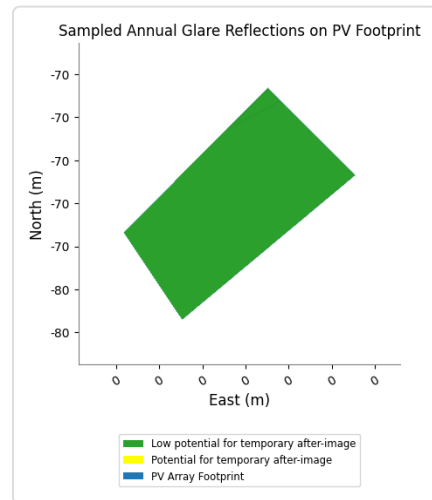
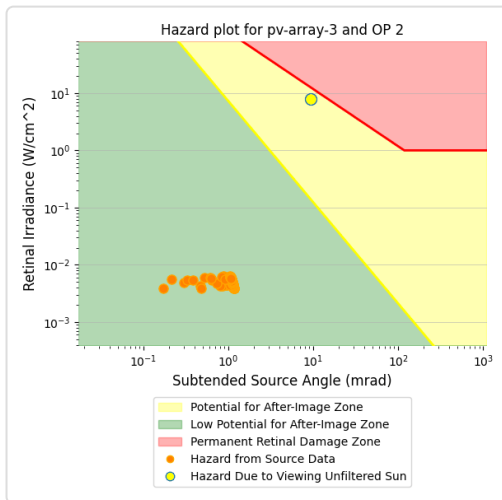
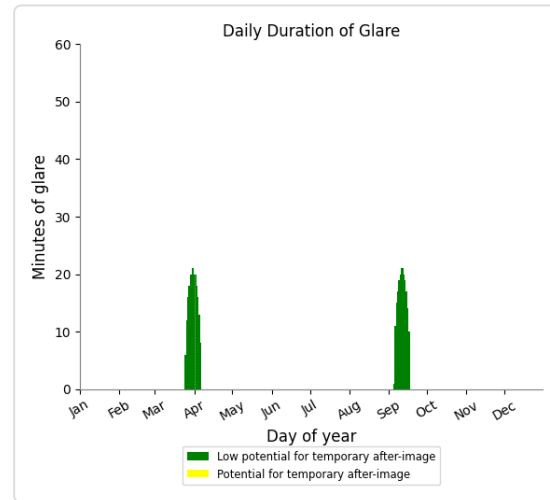
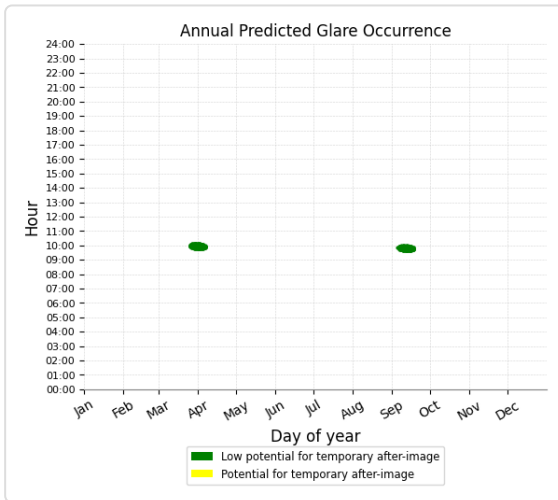
PV array 3 and Route: Approach_05R

No glare found

PV array 3 and OP 2

Yellow glare: none

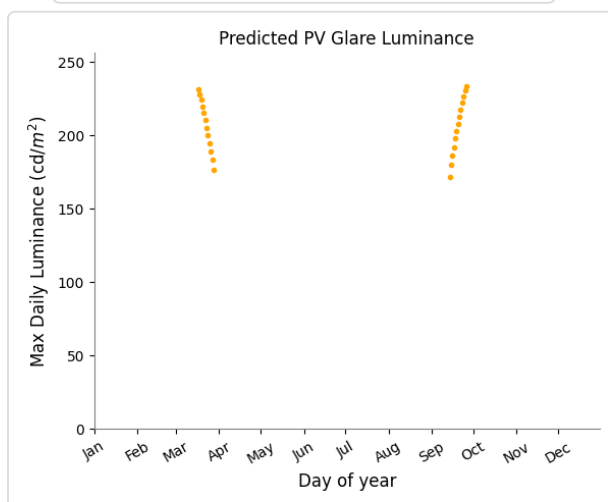
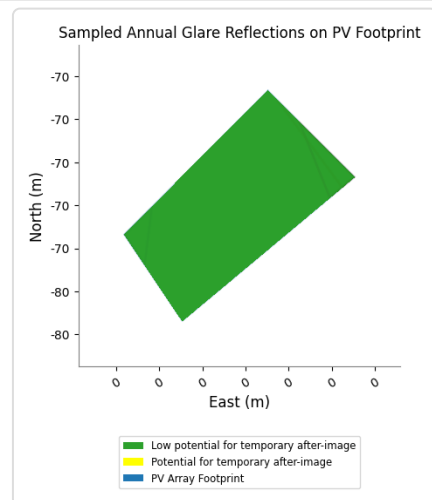
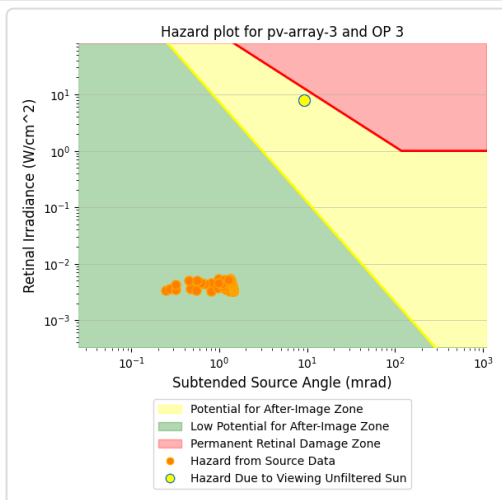
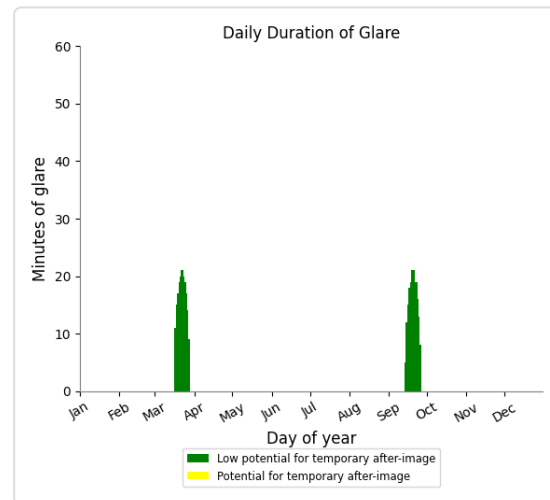
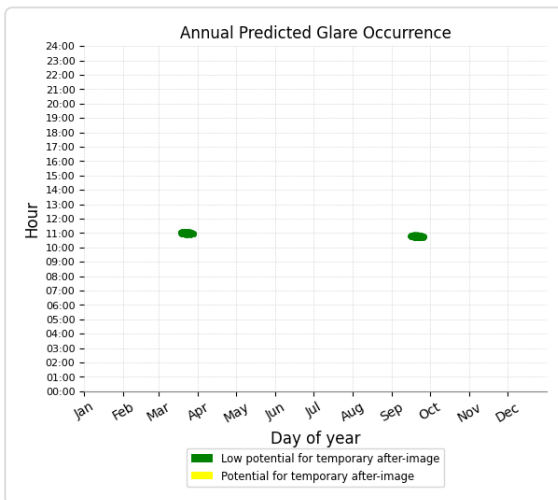
Green glare: 413 min.



PV array 3 and OP 3

Yellow glare: none

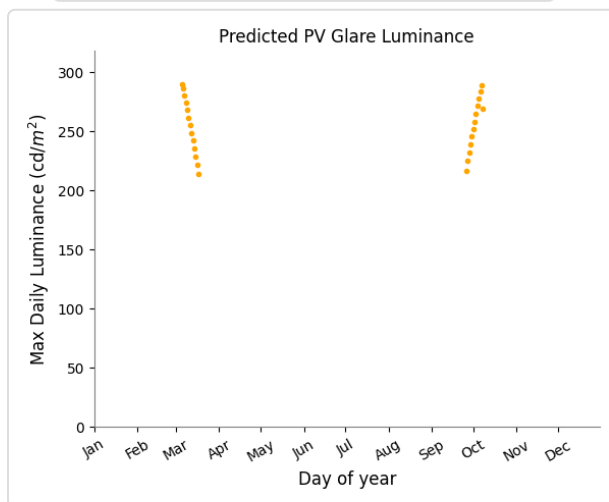
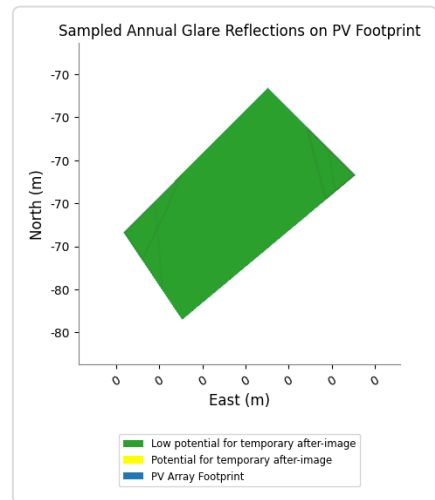
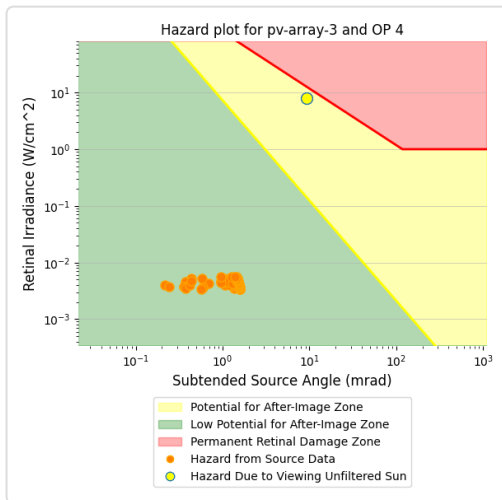
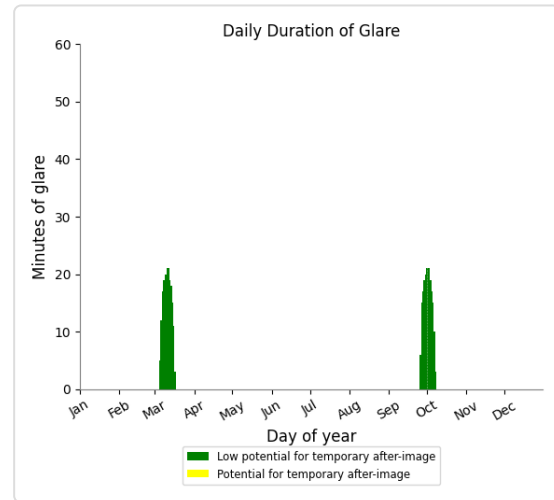
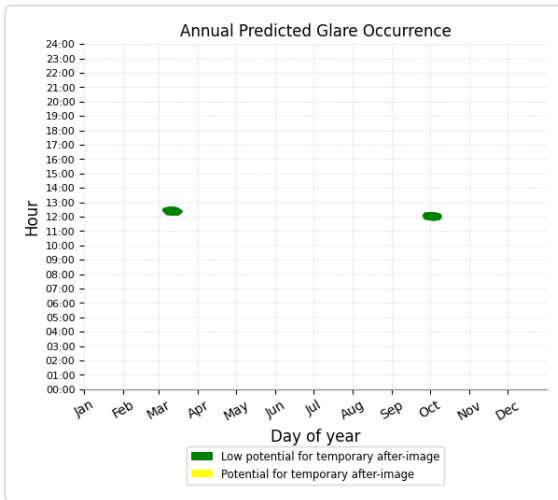
Green glare: 410 min.



PV array 3 and OP 4

Yellow glare: none

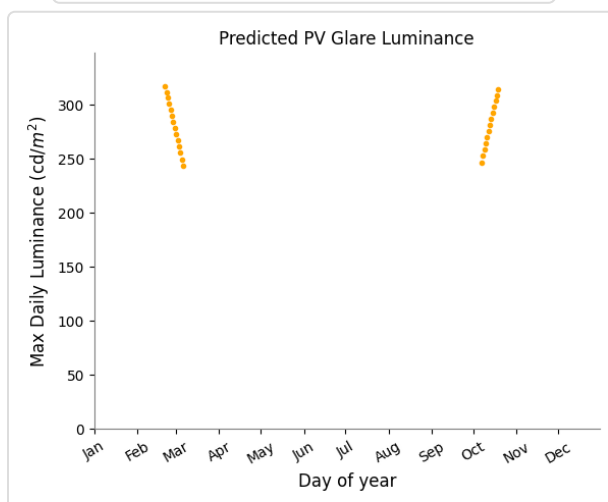
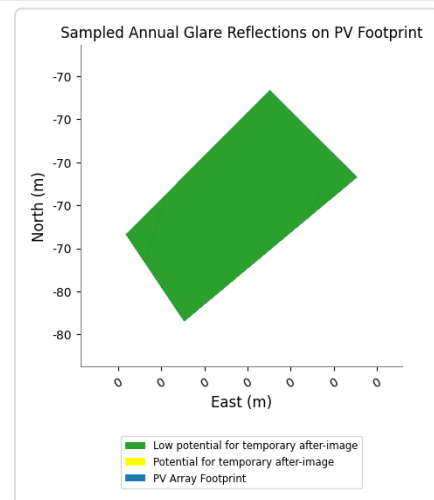
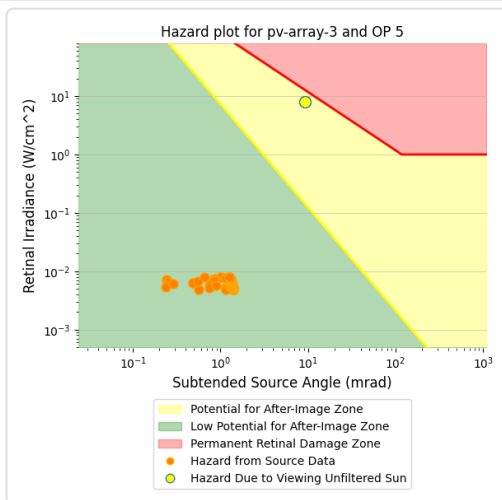
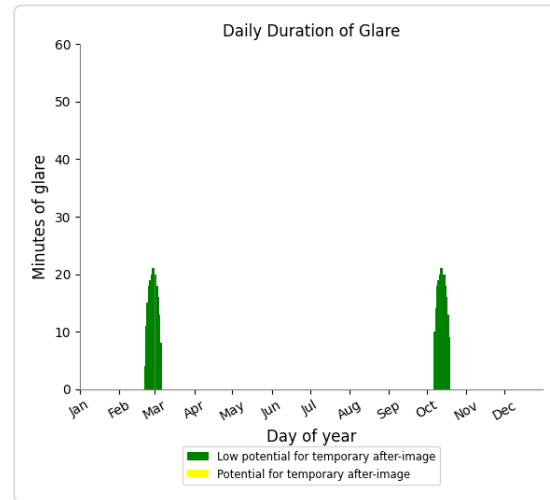
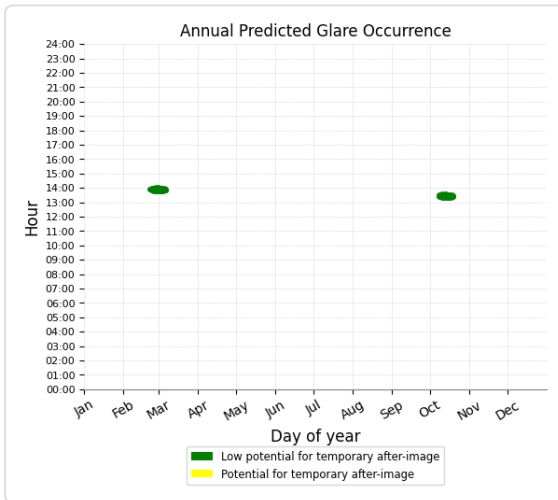
Green glare: 405 min.



PV array 3 and OP 5

Yellow glare: none

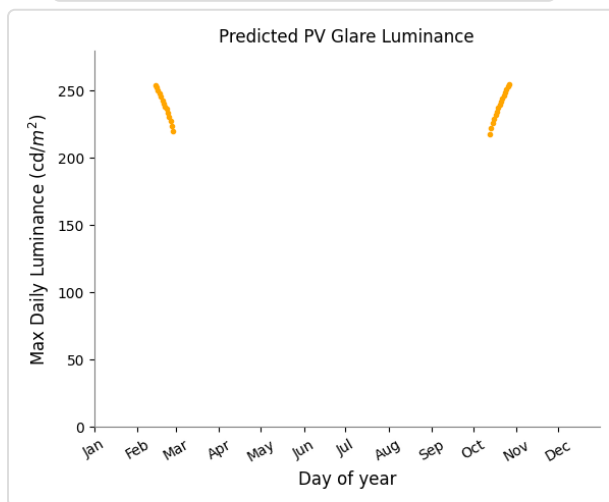
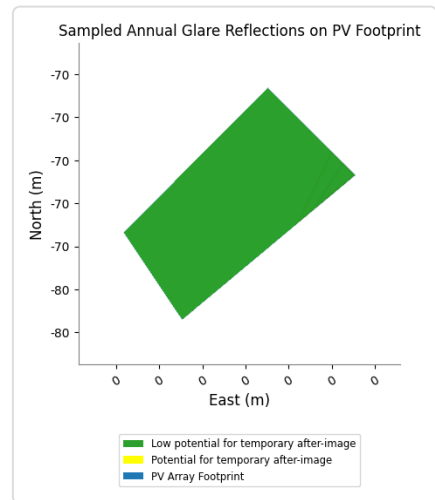
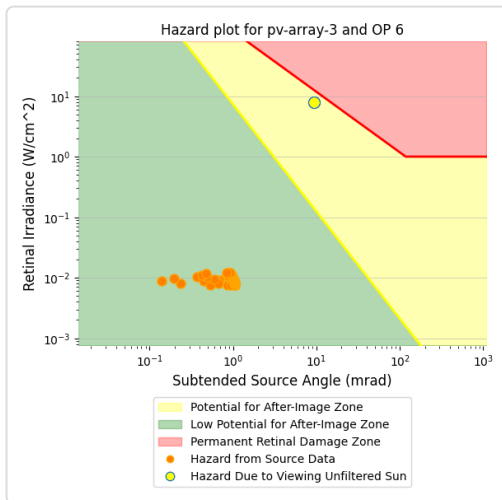
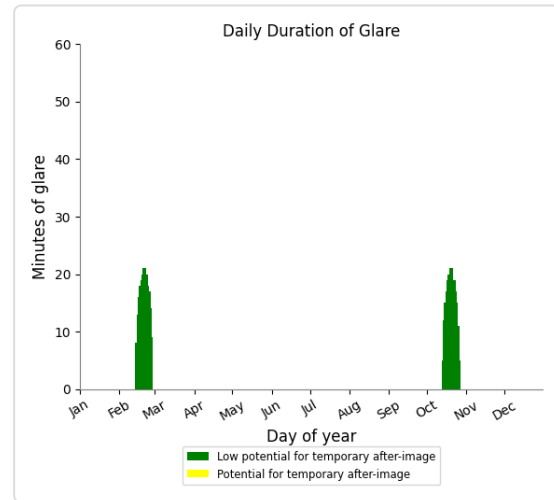
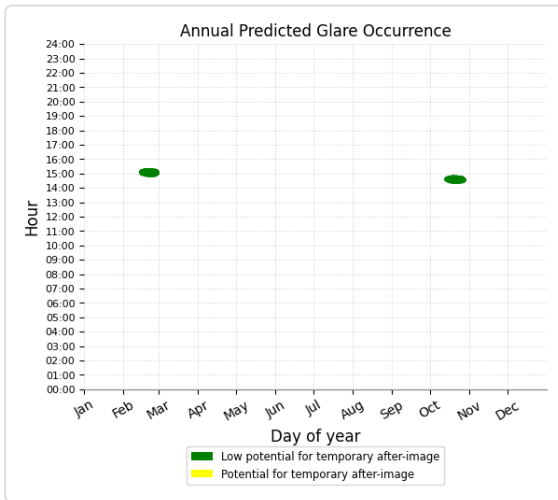
Green glare: 443 min.



PV array 3 and OP 6

Yellow glare: none

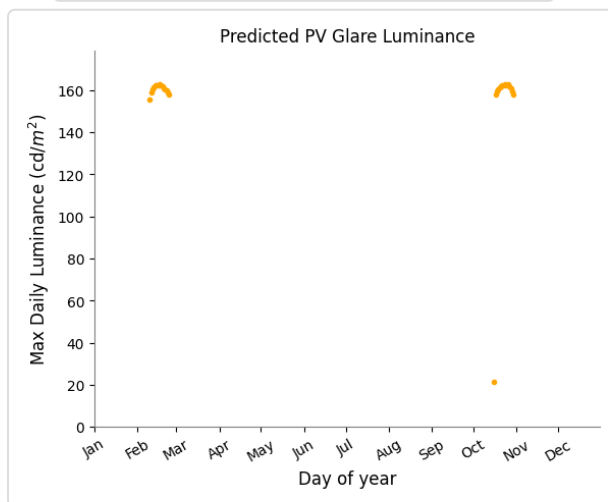
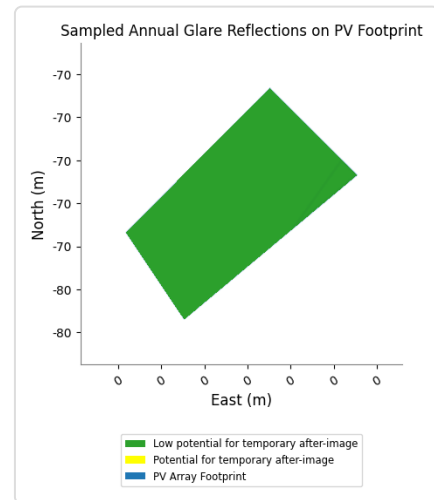
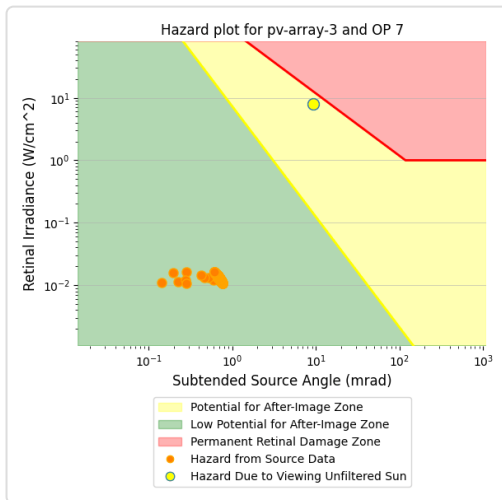
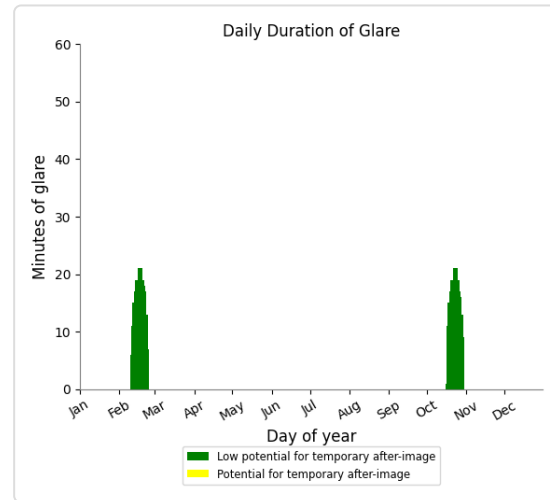
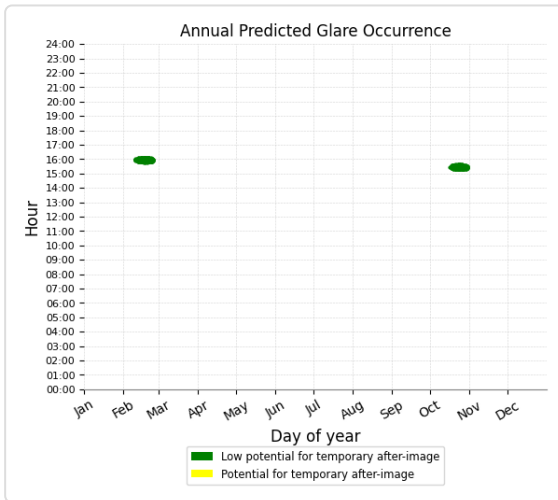
Green glare: 472 min.



PV array 3 and OP 7

Yellow glare: none

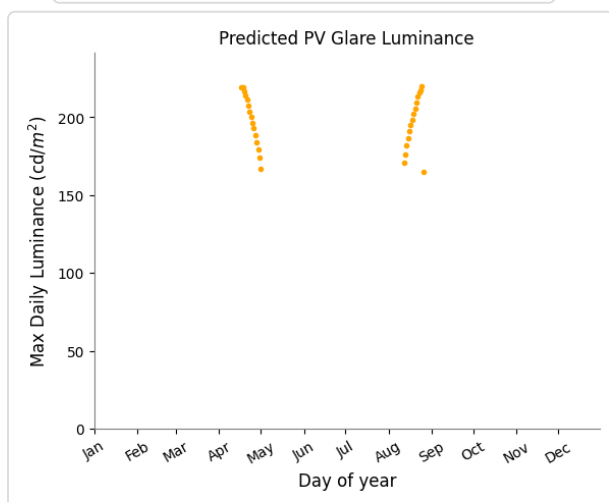
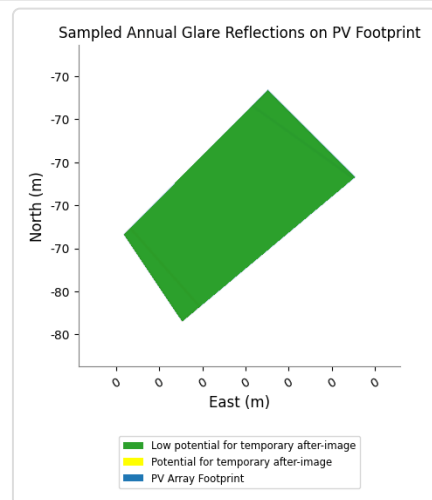
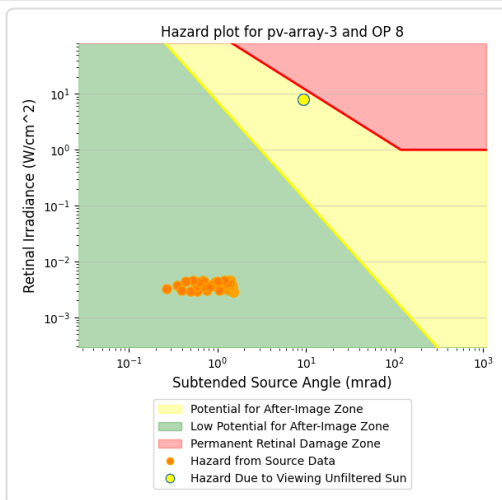
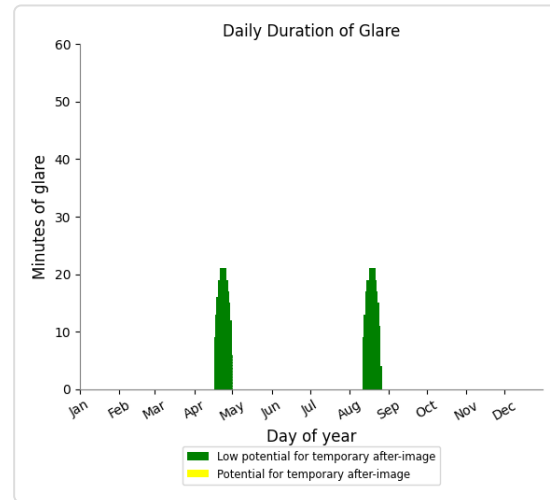
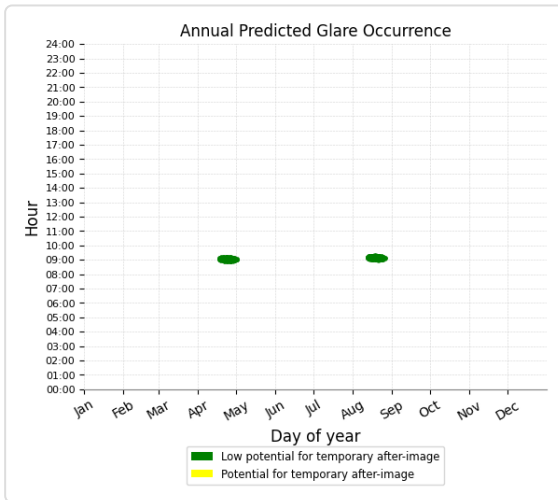
Green glare: 485 min.



PV array 3 and OP 8

Yellow glare: none

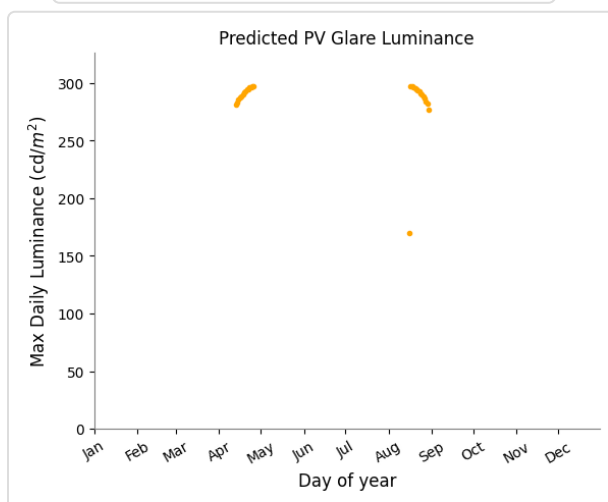
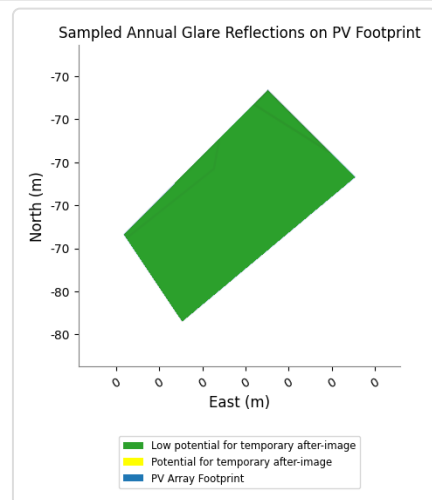
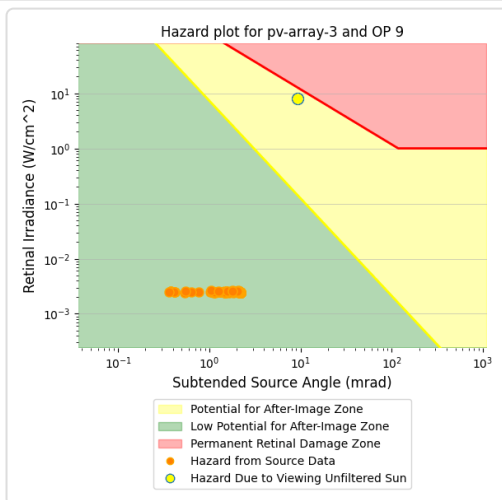
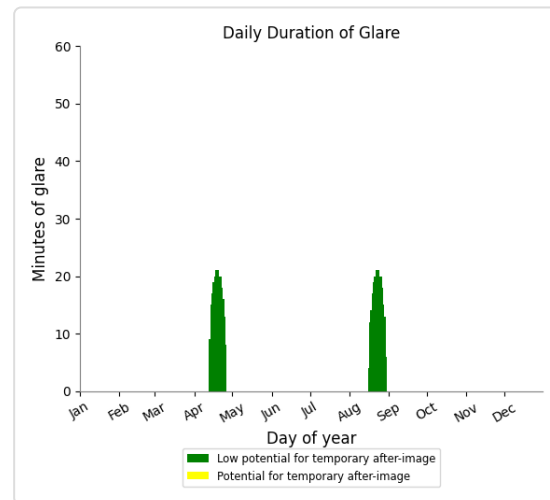
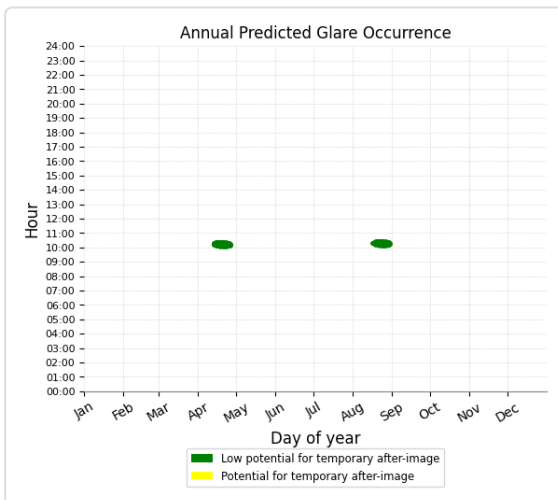
Green glare: 498 min.



PV array 3 and OP 9

Yellow glare: none

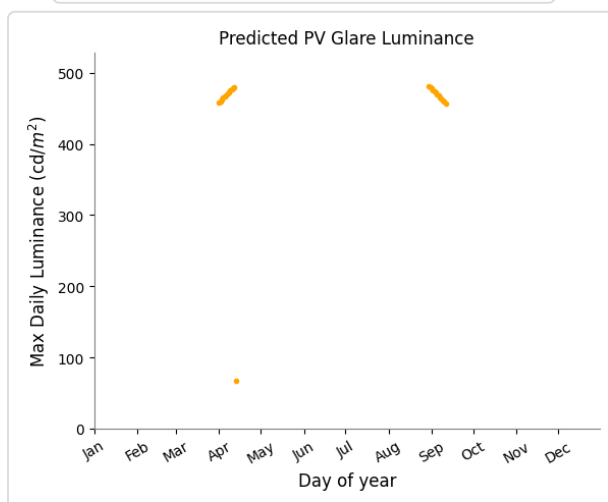
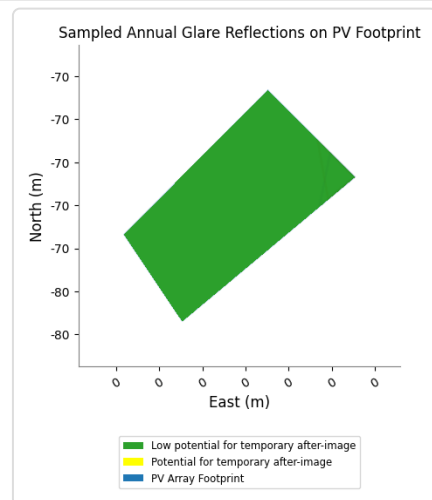
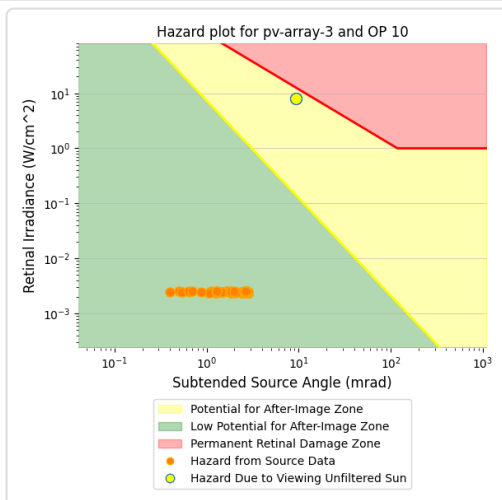
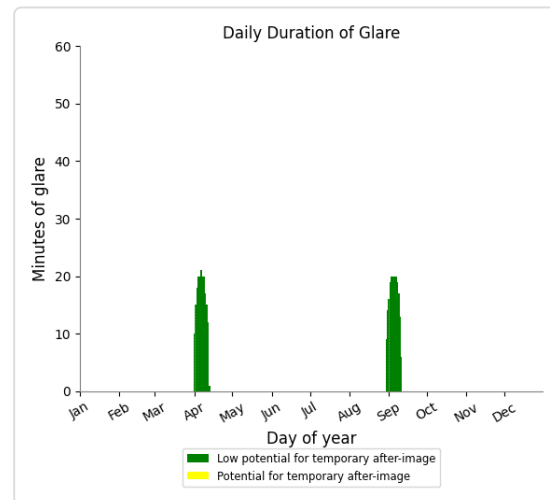
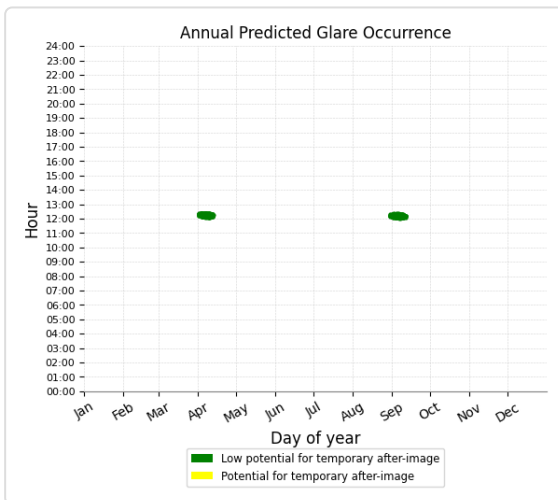
Green glare: 479 min.



PV array 3 and OP 10

Yellow glare: none

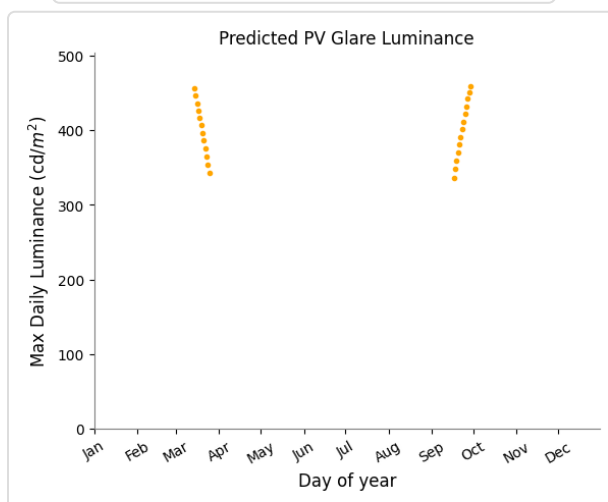
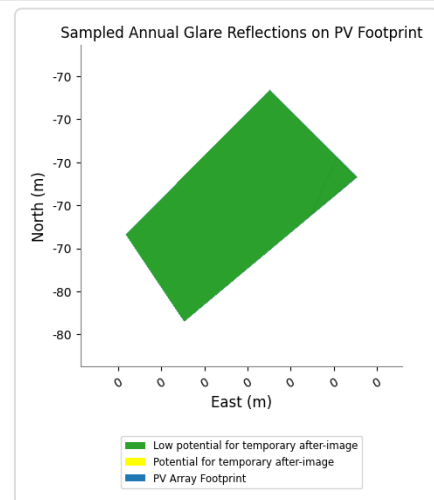
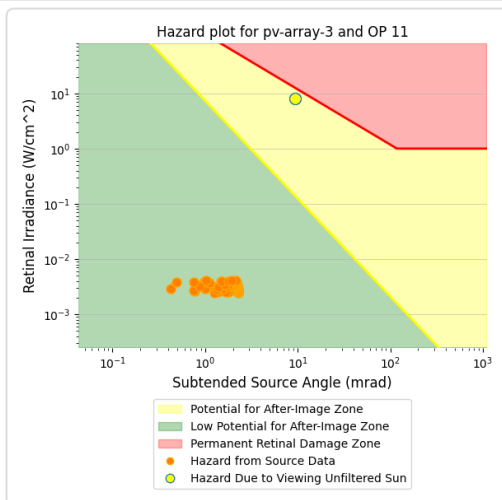
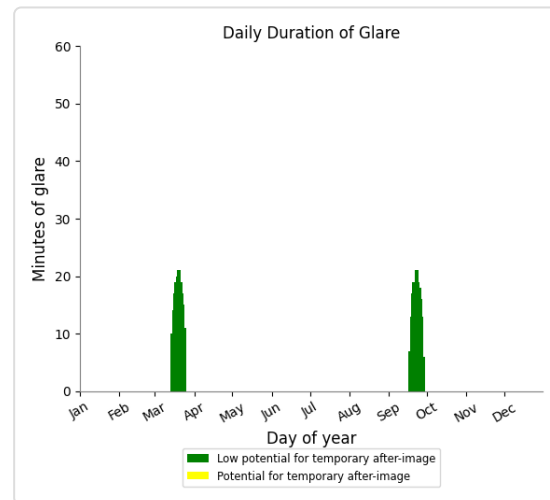
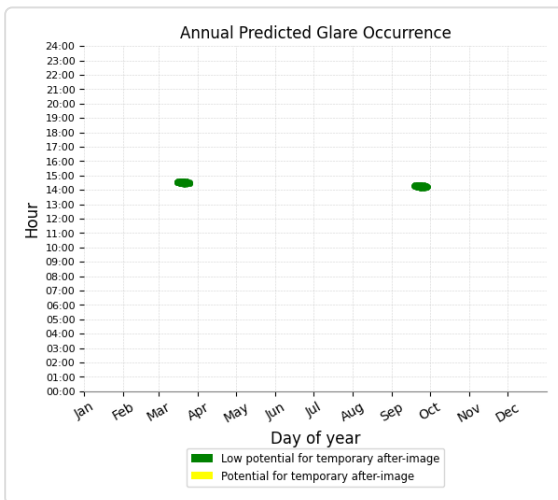
Green glare: 423 min.



PV array 3 and OP 11

Yellow glare: none

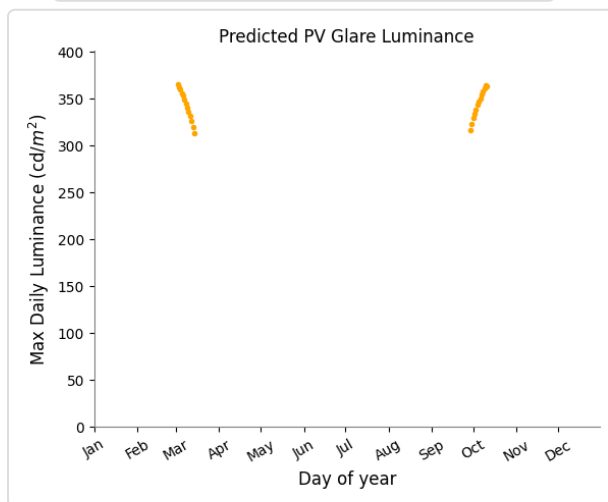
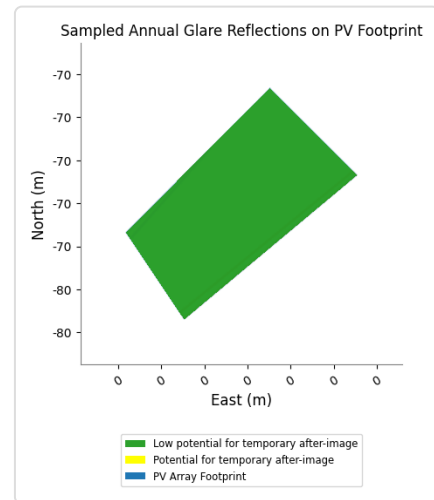
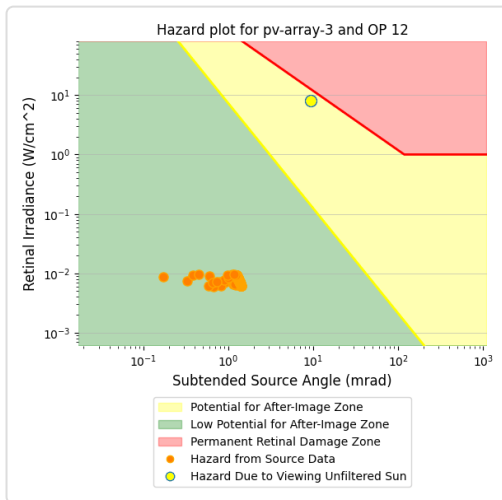
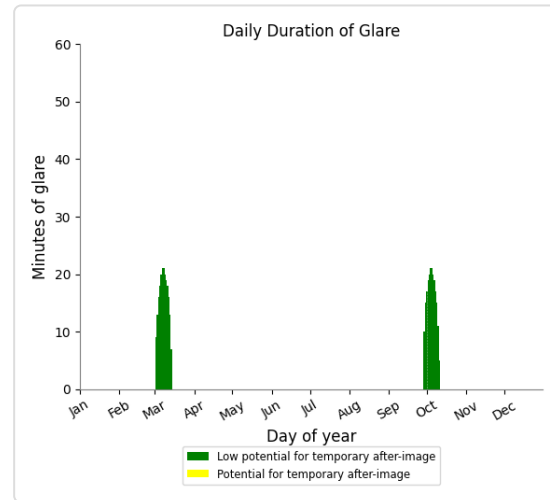
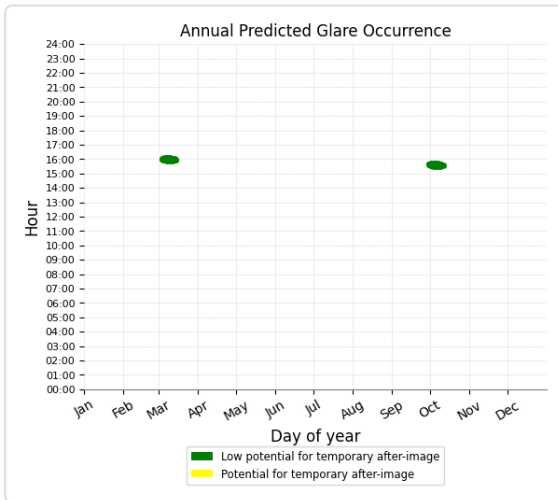
Green glare: 415 min.



PV array 3 and OP 12

Yellow glare: none

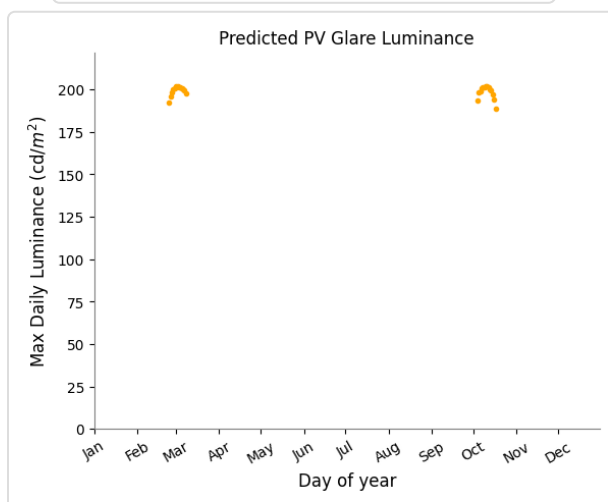
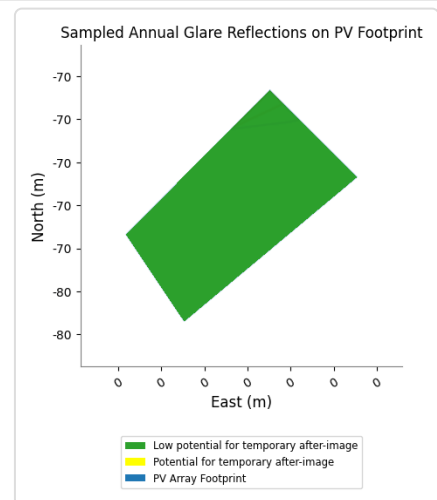
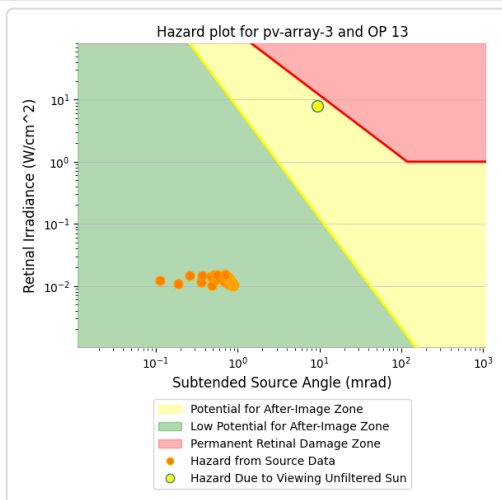
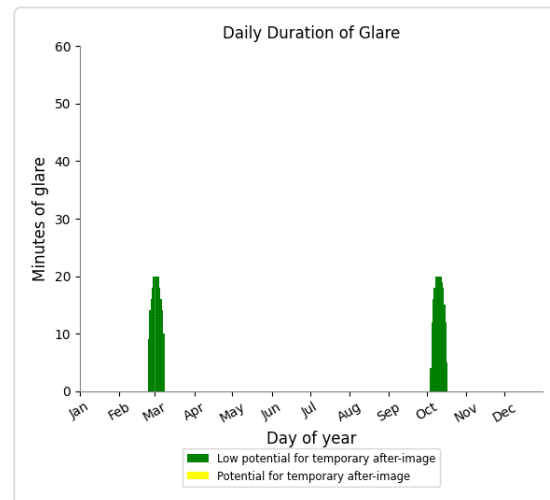
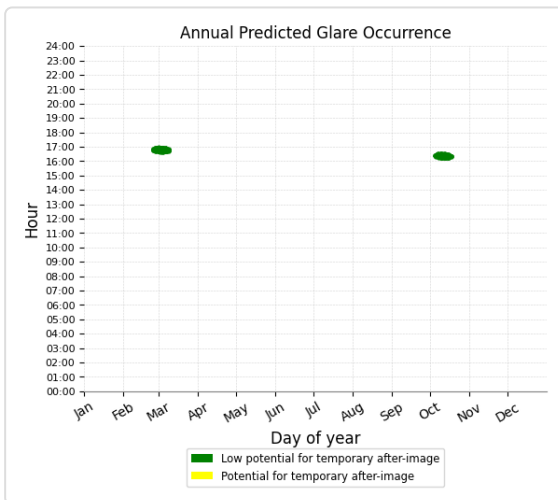
Green glare: 421 min.



PV array 3 and OP 13

Yellow glare: none

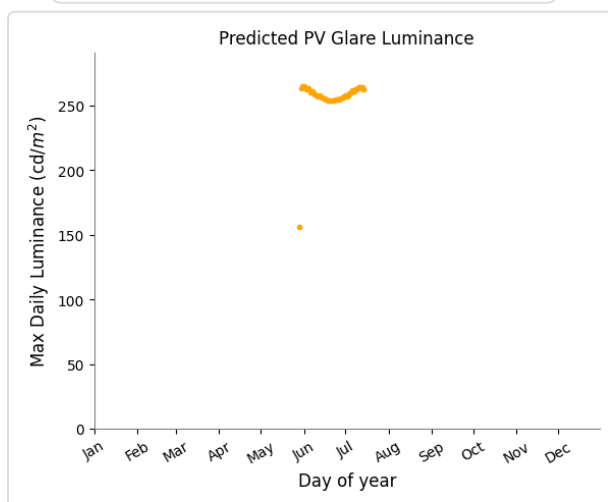
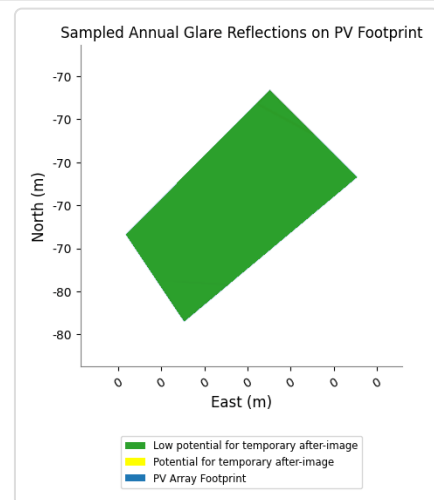
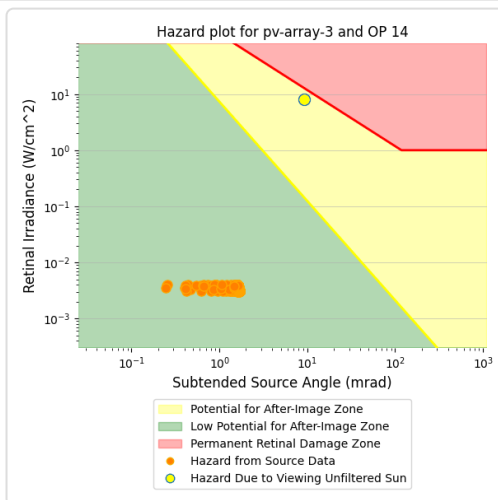
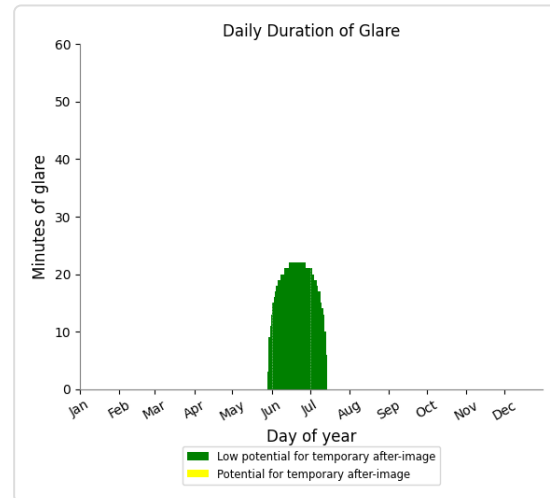
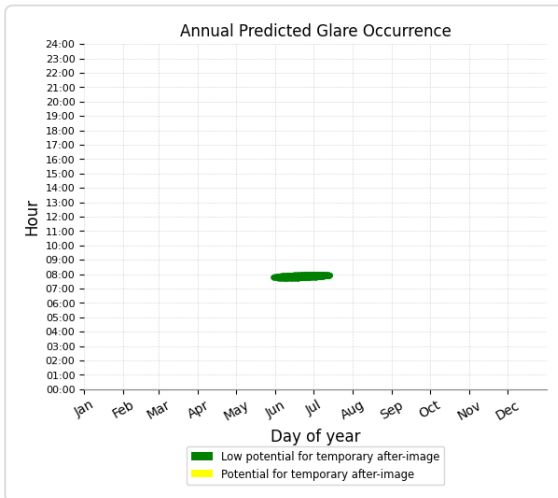
Green glare: 434 min.



PV array 3 and OP 14

Yellow glare: none

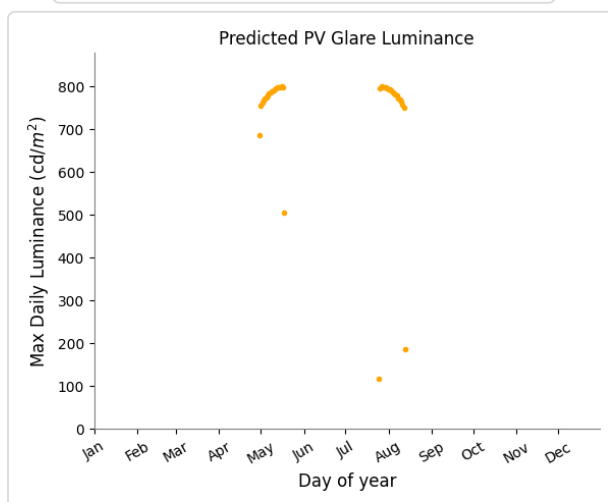
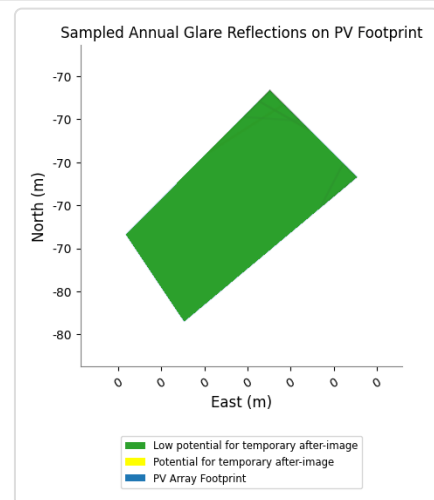
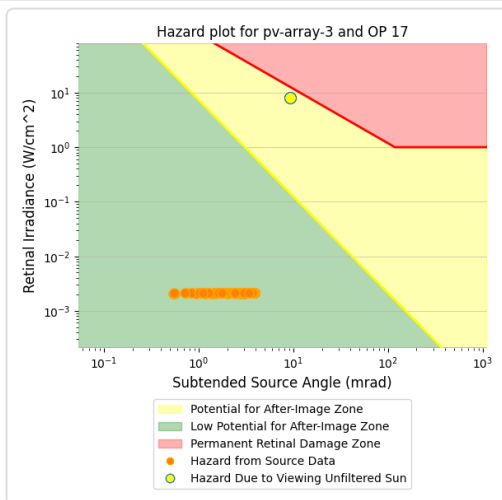
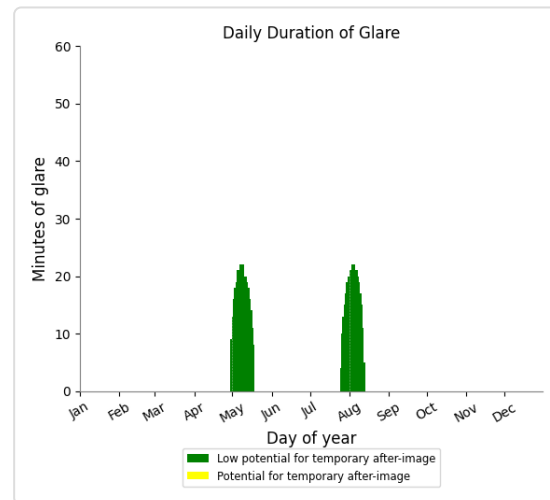
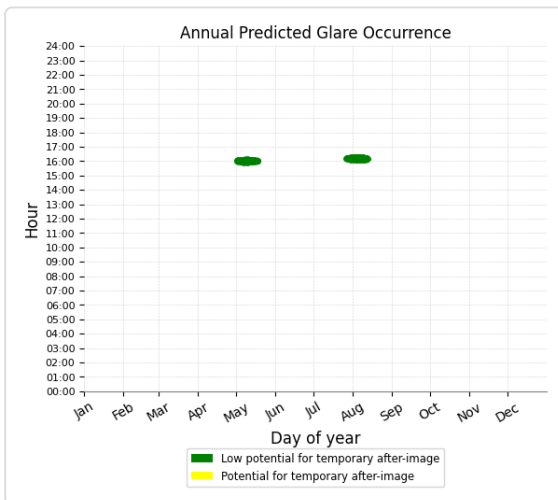
Green glare: 863 min.



PV array 3 and OP 17

Yellow glare: none

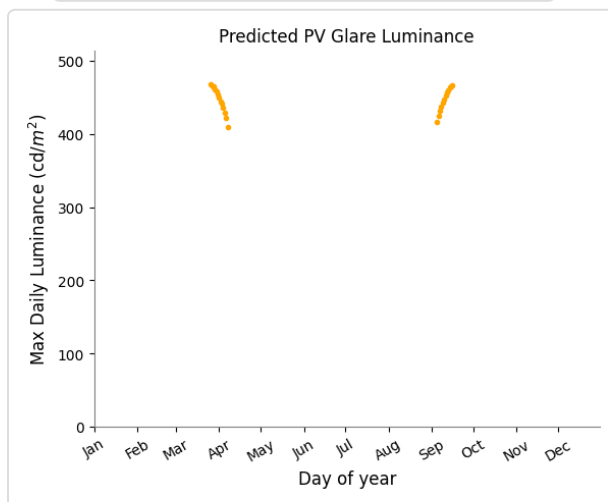
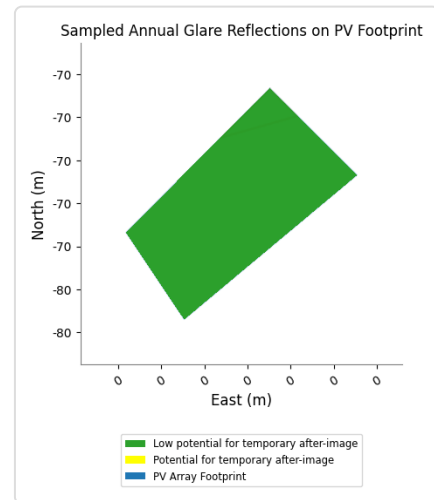
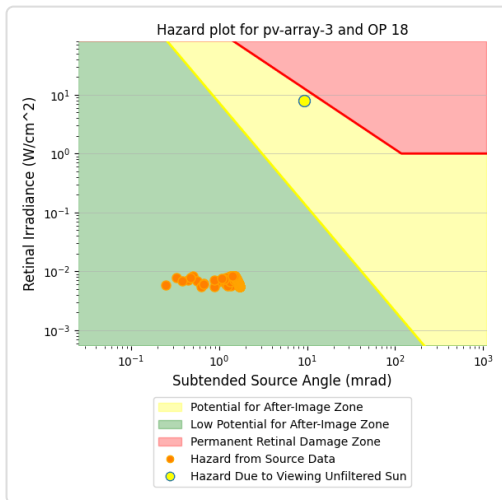
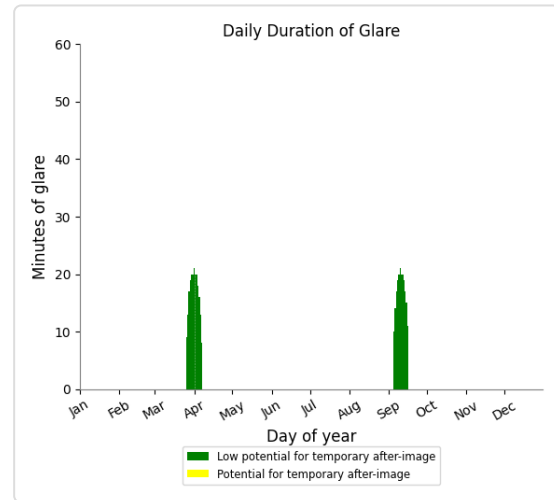
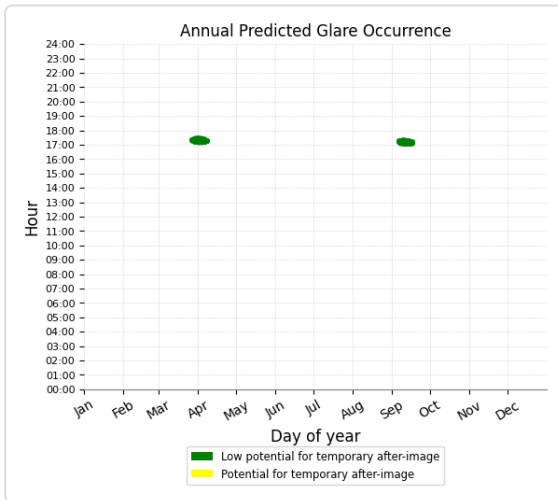
Green glare: 665 min.



PV array 3 and OP 18

Yellow glare: none

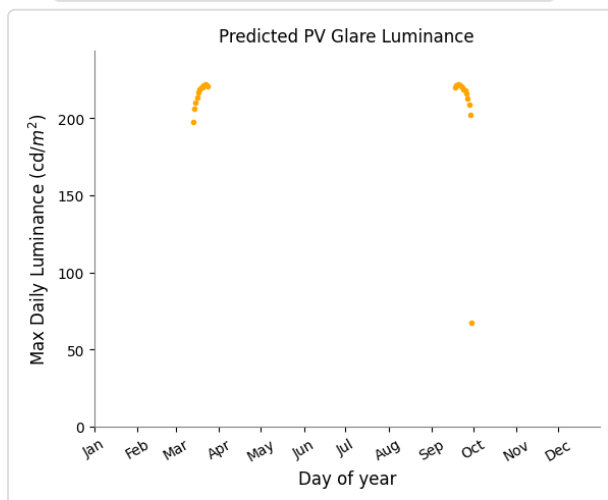
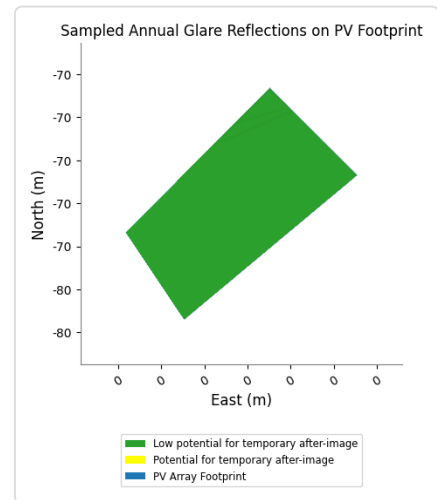
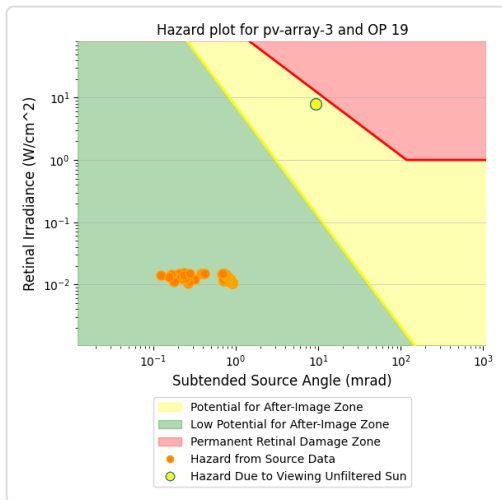
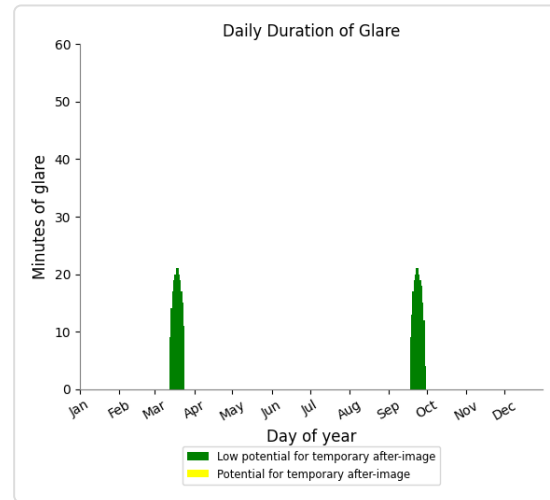
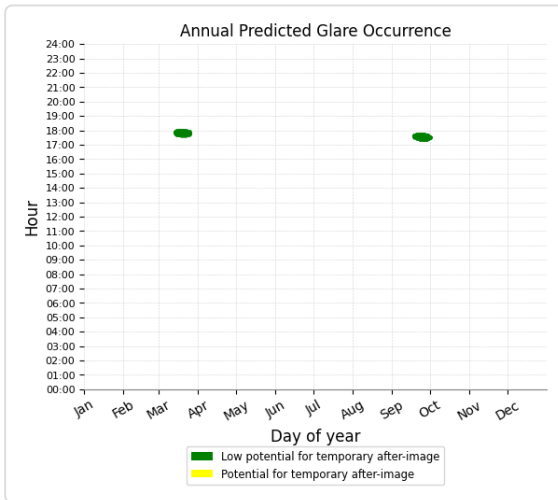
Green glare: 417 min.



PV array 3 and OP 19

Yellow glare: none

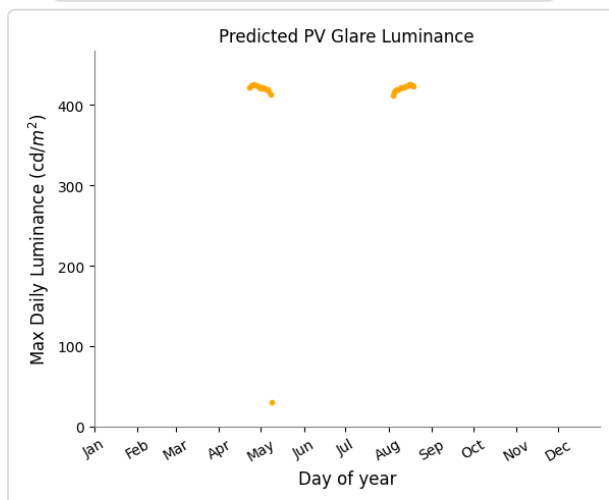
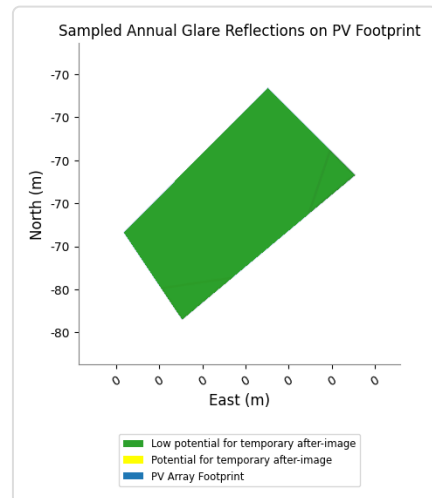
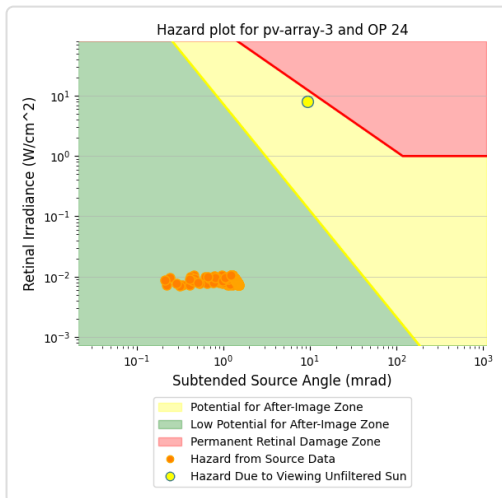
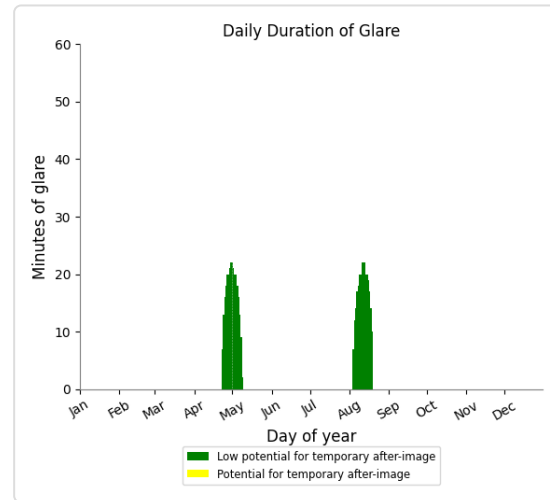
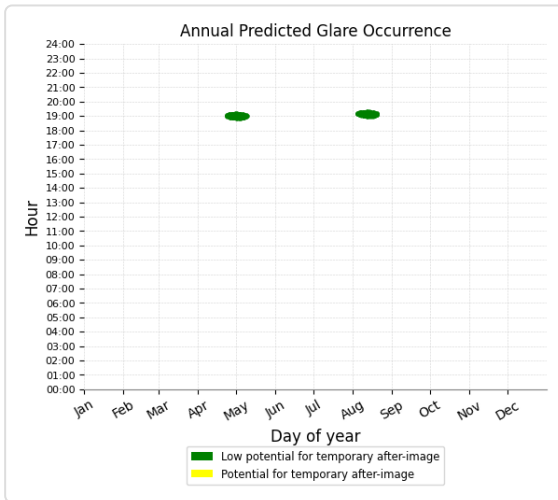
Green glare: 411 min.



PV array 3 and OP 24

Yellow glare: none

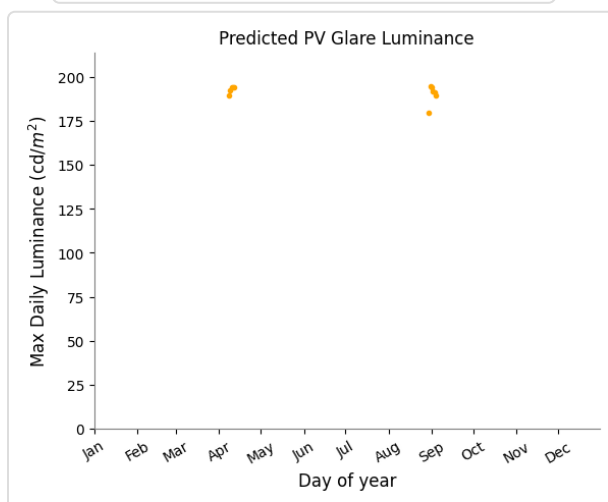
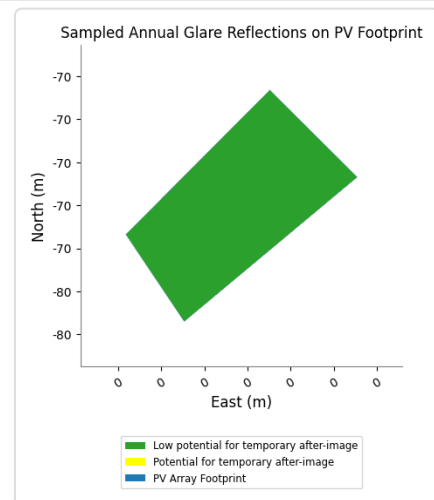
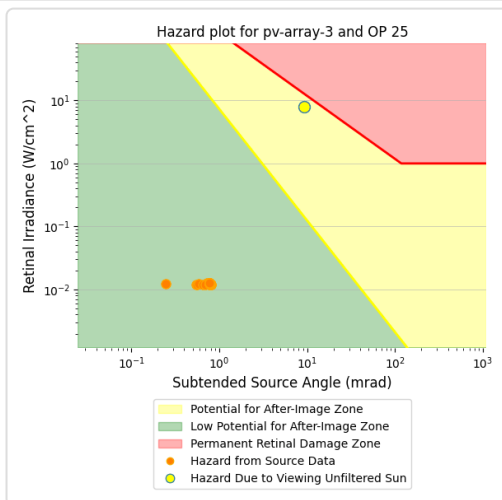
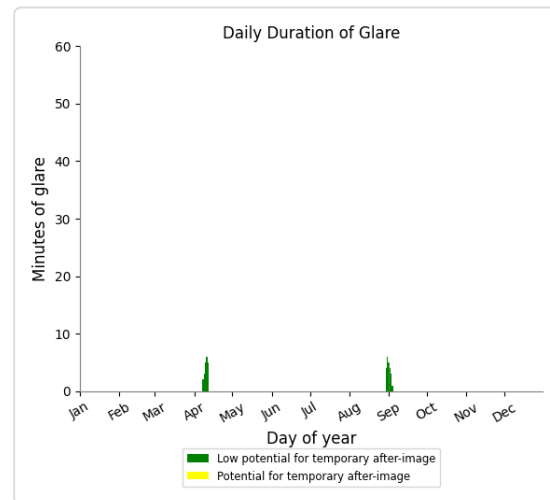
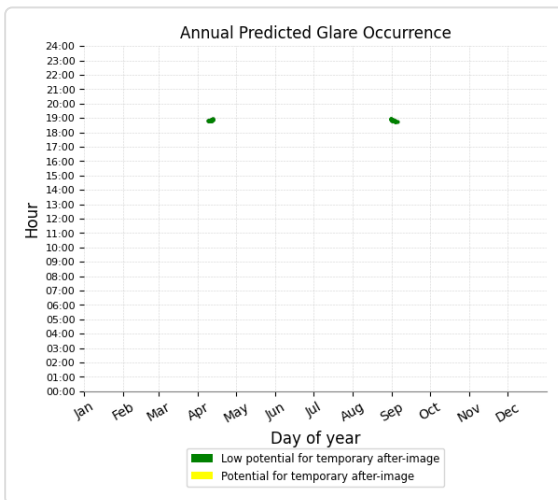
Green glare: 552 min.



PV array 3 and OP 25

Yellow glare: none

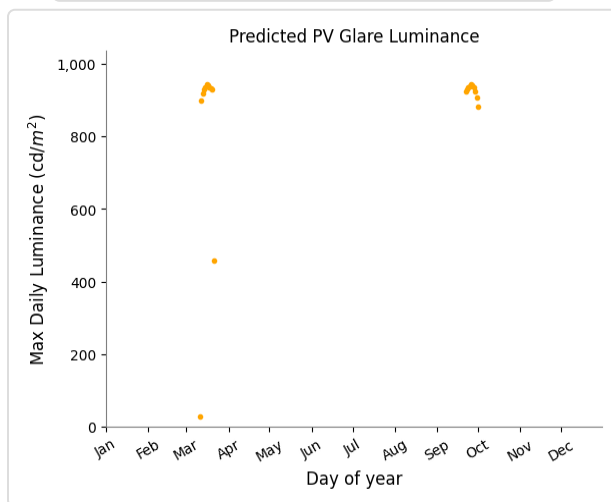
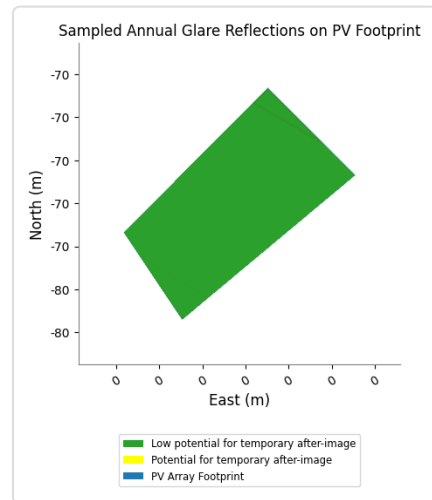
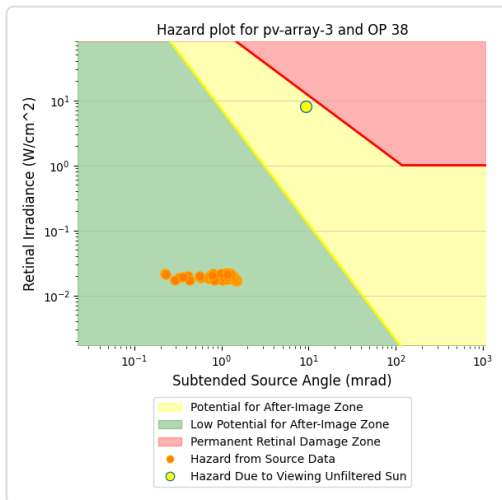
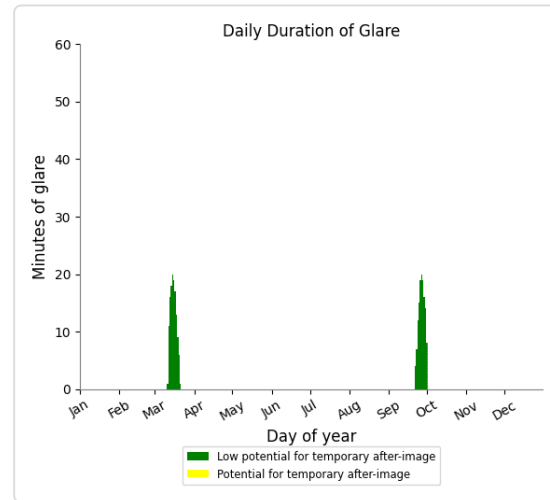
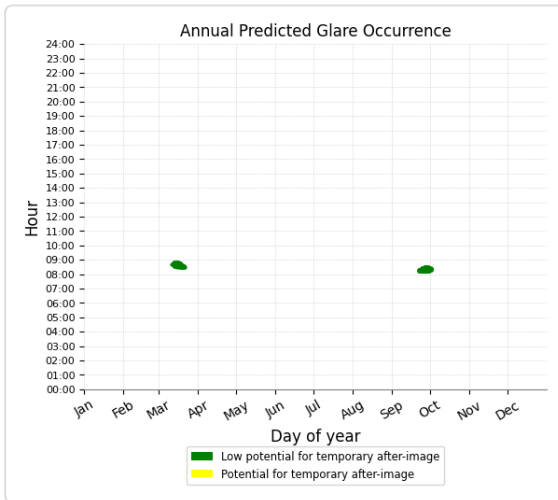
Green glare: 44 min.



PV array 3 and OP 38

Yellow glare: none

Green glare: 265 min.



PV array 3 and 1-ATCT

No glare found

PV array 3 and OP 15

No glare found

PV array 3 and OP 16

No glare found

PV array 3 and OP 20

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 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 39

No glare found

PV array 3 and OP 40

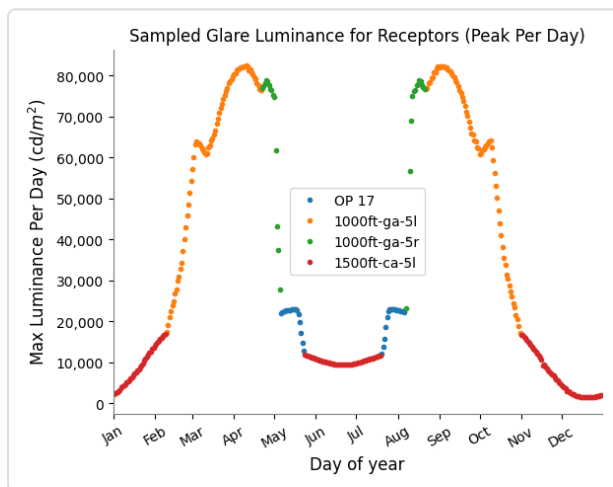
No glare found

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- R_23R-L	6,364	106.1	0	0.0	82,442
1000Ft- GA_5R23L_05R- R_23L-L	3,335	55.6	0	0.0	78,836
1500Ft- CA_5L23R_05L- R_23R-L	22,640	377.3	0	0.0	18,740
Approach_23L	175	2.9	0	0.0	387
Approach_23R	281	4.7	0	0.0	452
1000Ft- GA_5L23R_05L- L_23R-R	0	0.0	0	0.0	0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
1500Ft- CA_5L23R_05L- L_23R-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 2	506	8.4	0	0.0	6,482
OP 3	530	8.8	0	0.0	8,302
OP 4	561	9.3	0	0.0	10,245
OP 5	593	9.9	0	0.0	11,528
OP 6	600	10.0	0	0.0	9,767
OP 7	587	9.8	0	0.0	6,482
OP 8	645	10.8	0	0.0	7,745
OP 9	687	11.4	0	0.0	9,522
OP 10	710	11.8	0	0.0	14,753
OP 11	637	10.6	0	0.0	14,634
OP 12	573	9.6	0	0.0	13,523
OP 13	544	9.1	0	0.0	7,937
OP 14	1,169	19.5	0	0.0	9,089
OP 17	1,445	24.1	0	0.0	22,993
OP 18	615	10.2	0	0.0	16,912
OP 19	524	8.7	0	0.0	8,663
OP 24	823	13.7	0	0.0	15,862
OP 25	79	1.3	0	0.0	7,686

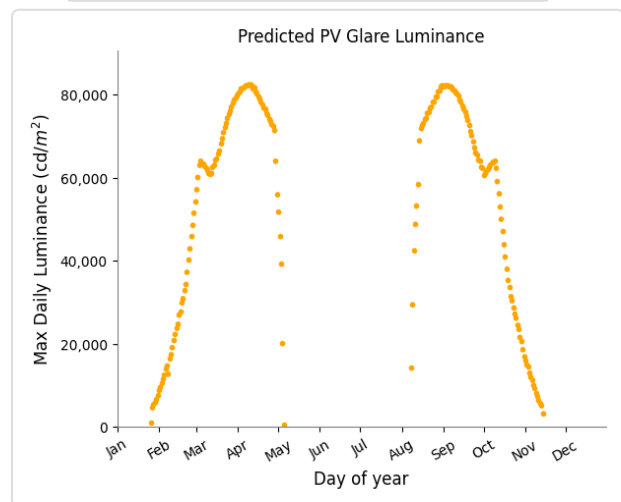
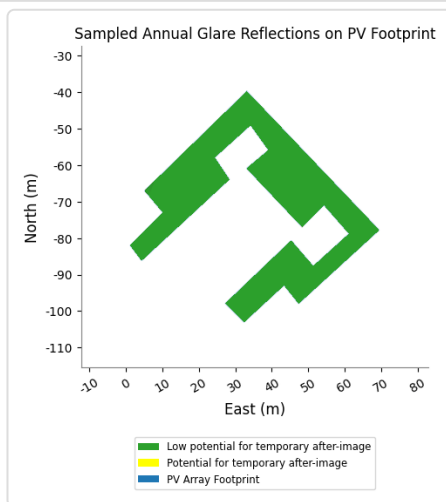
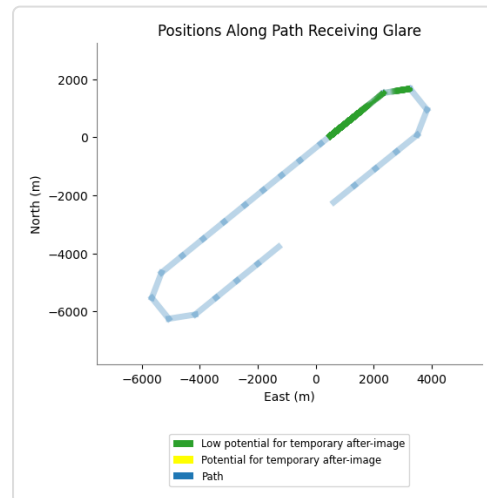
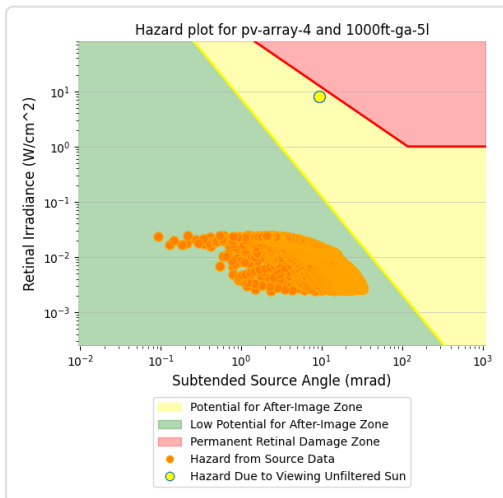
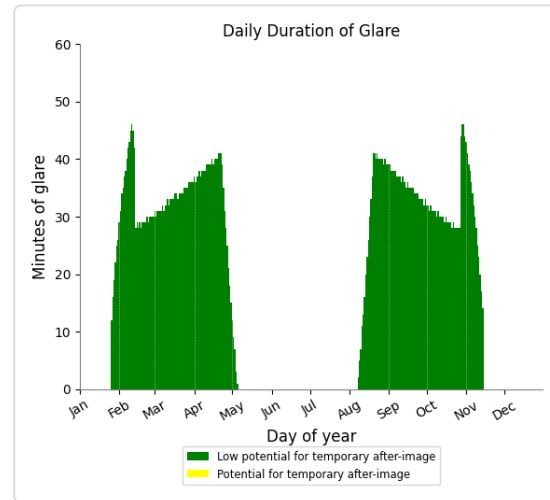
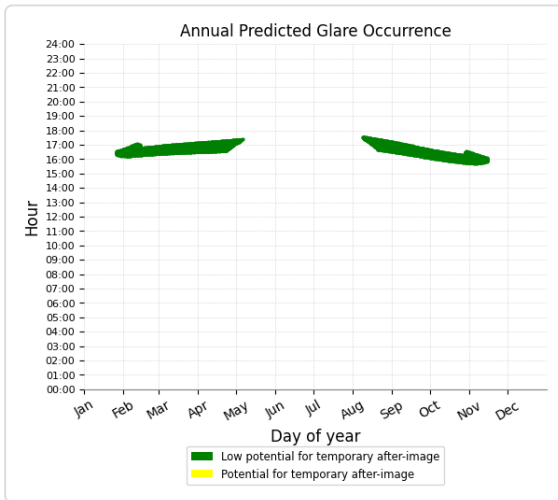
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 30	73	1.2	0	0.0	8,629
OP 38	358	6.0	0	0.0	32,226
1-ATCT	0	0.0	0	0.0	0
OP 15	0	0.0	0	0.0	0
OP 16	0	0.0	0	0.0	0
OP 20	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 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 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 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-R_23R-L

Yellow glare: none

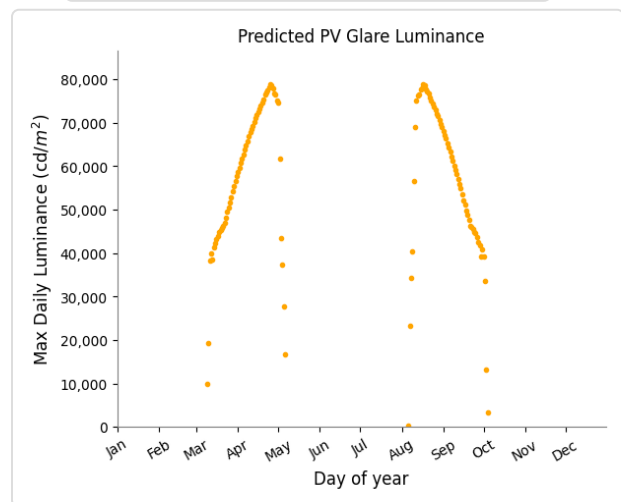
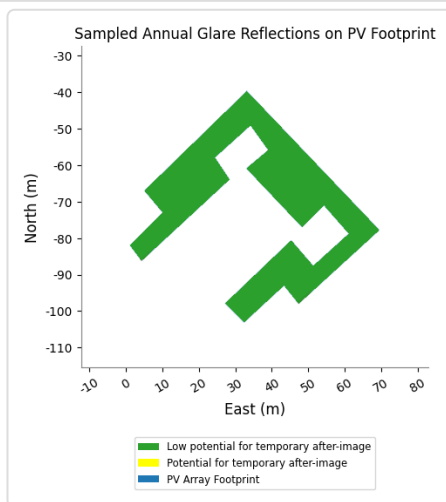
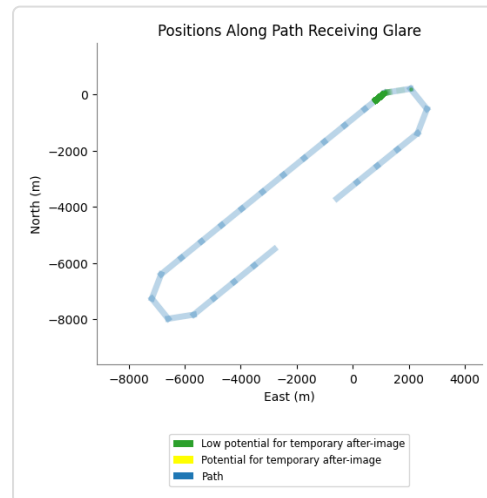
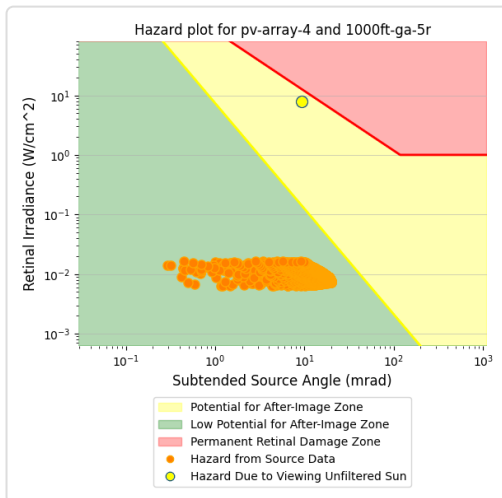
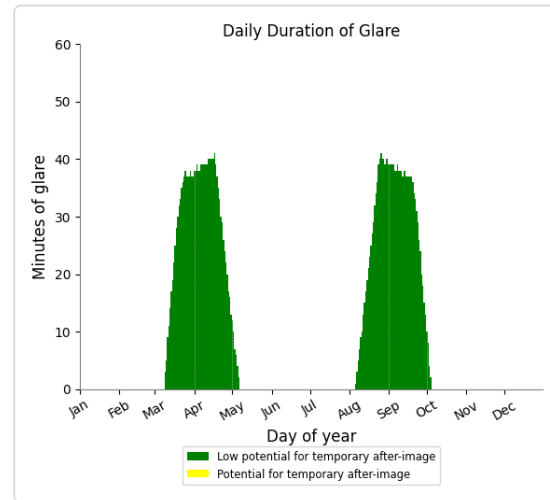
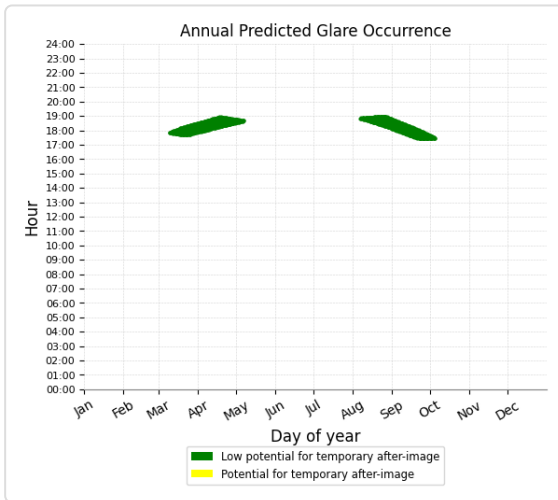
Green glare: 6,364 min.



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

Yellow glare: none

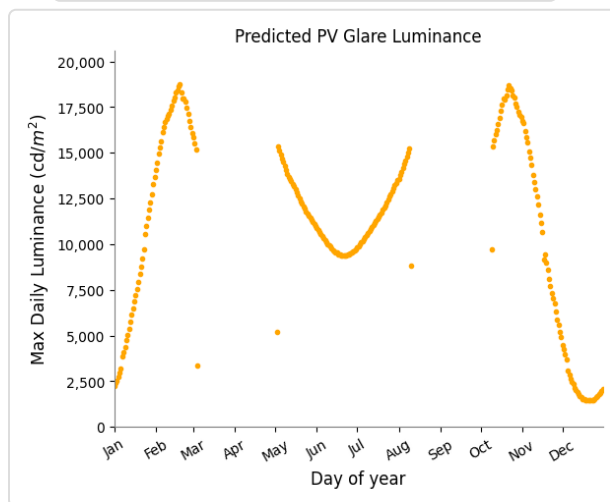
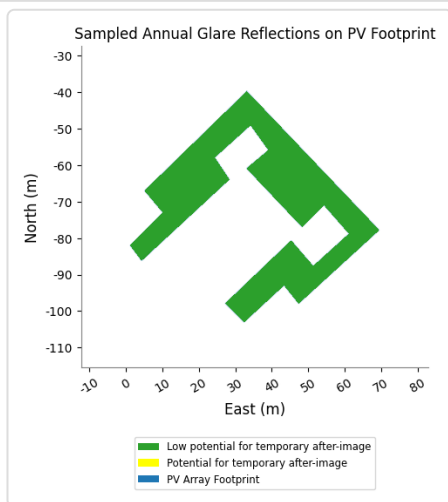
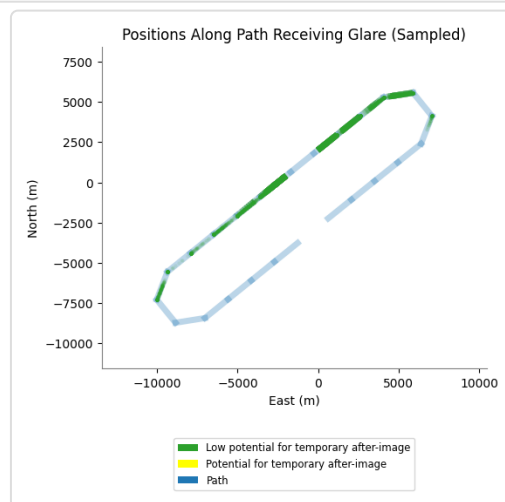
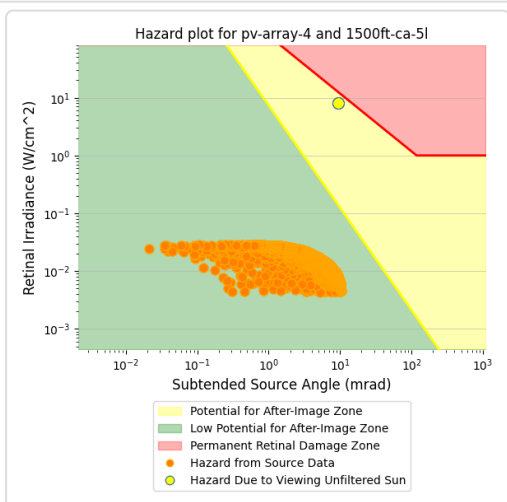
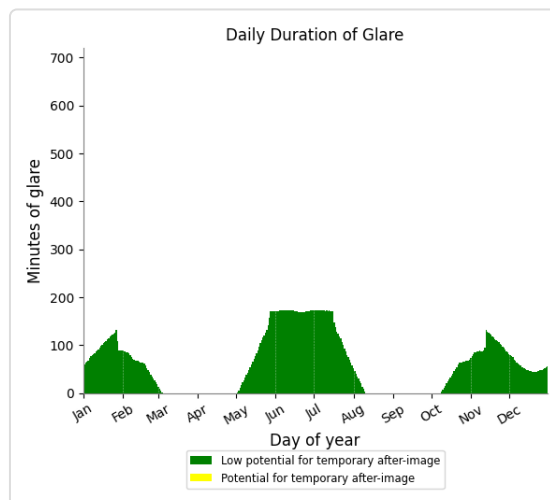
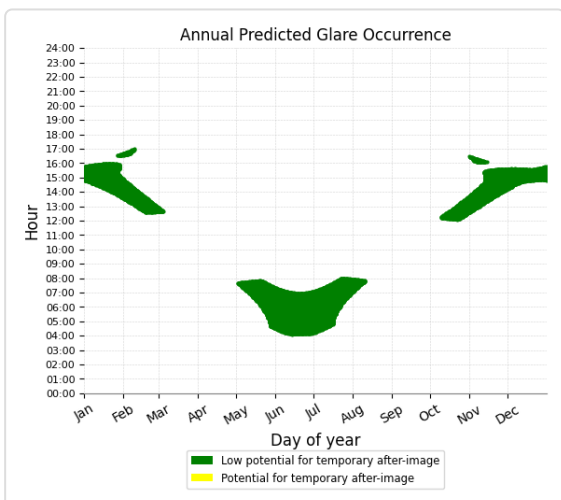
Green glare: 3,335 min.



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

Yellow glare: none

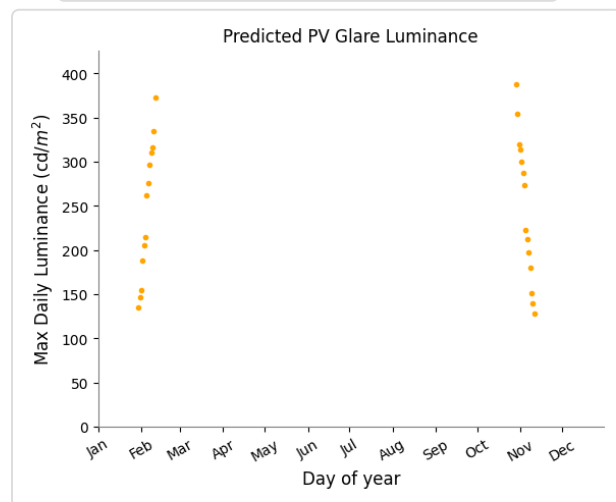
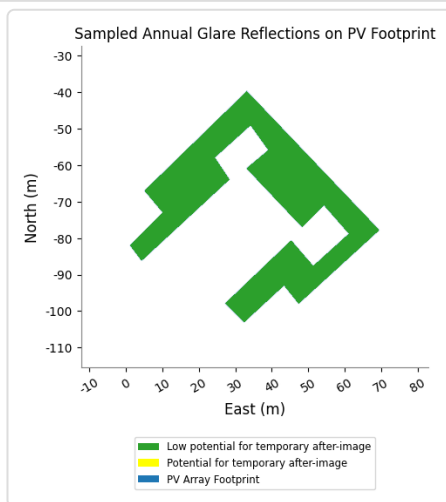
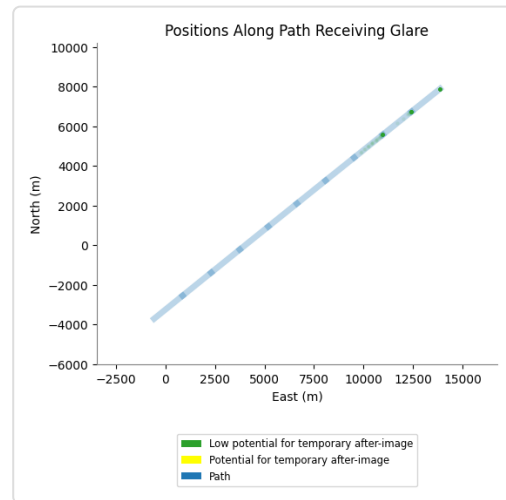
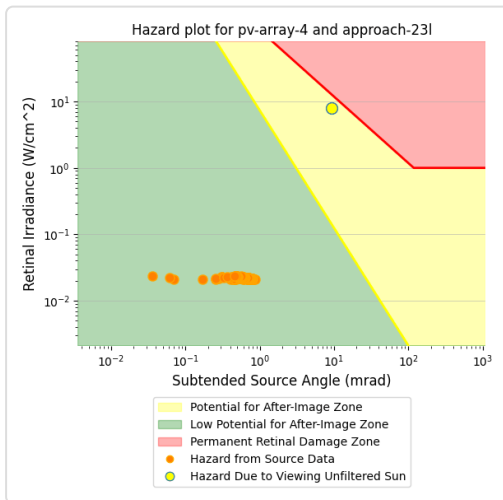
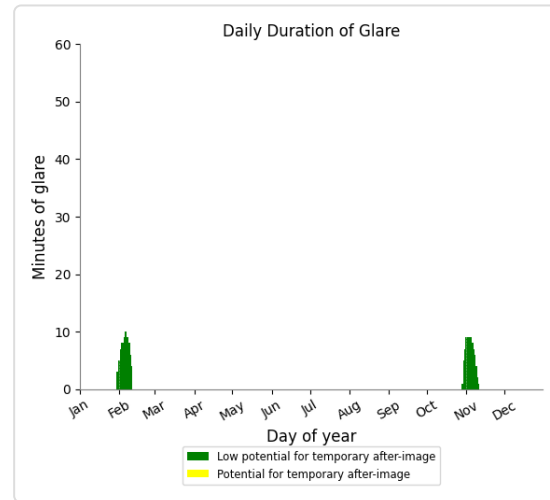
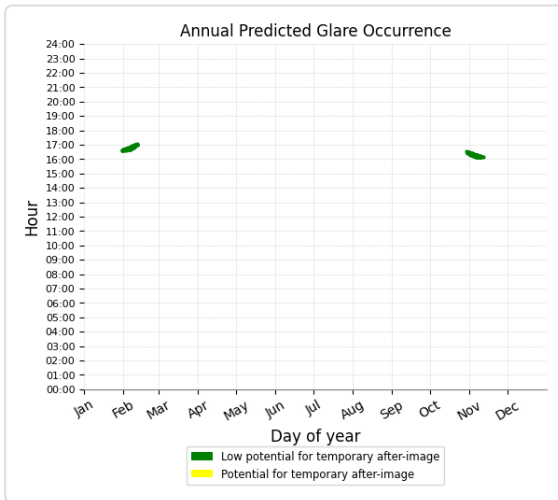
Green glare: 22,640 min.



PV array 4 and Route: Approach_23L

Yellow glare: none

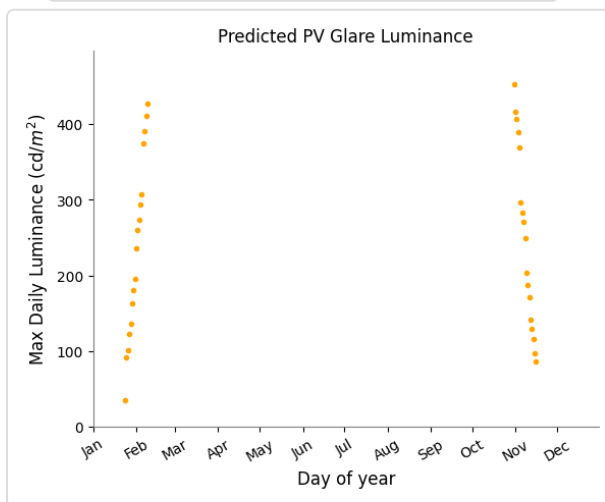
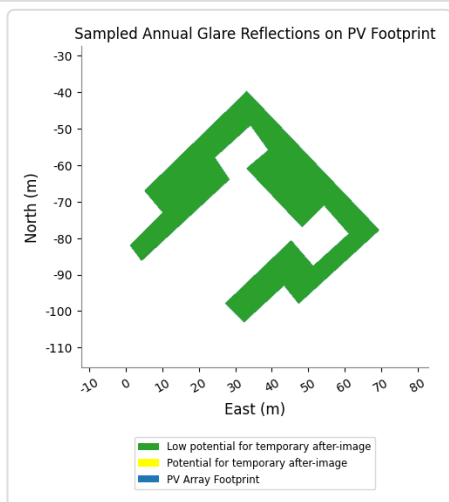
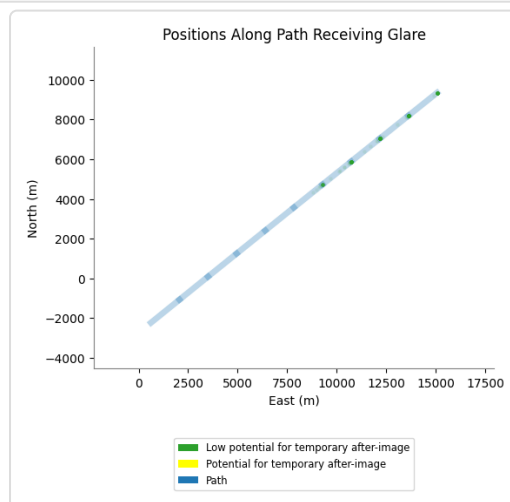
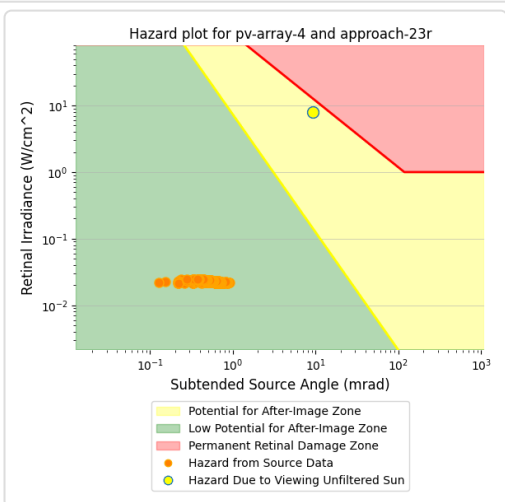
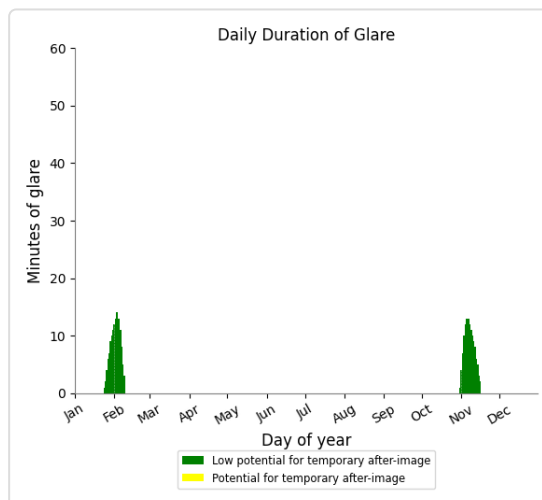
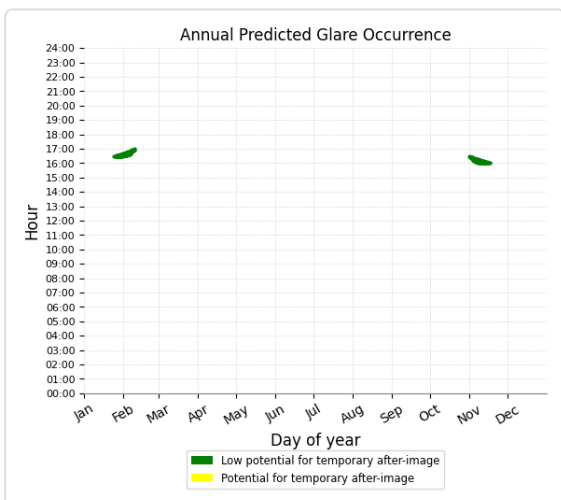
Green glare: 175 min.



PV array 4 and Route: Approach_23R

Yellow glare: none

Green glare: 281 min.



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

No glare found

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

No glare found

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

No glare found

PV array 4 and Route: Approach_05L

No glare found

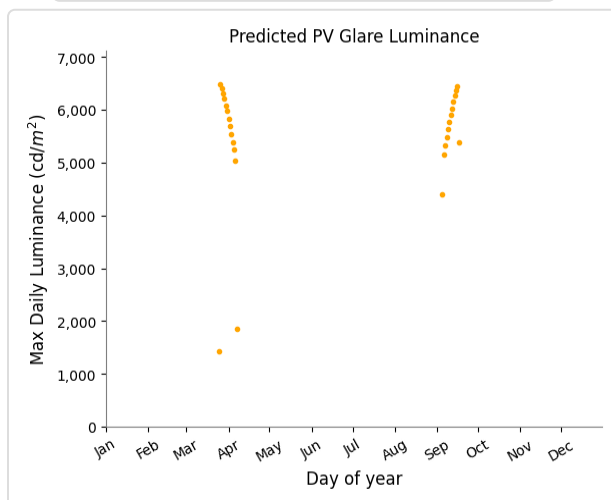
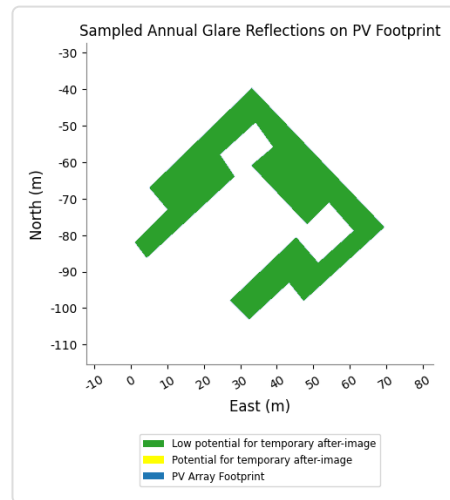
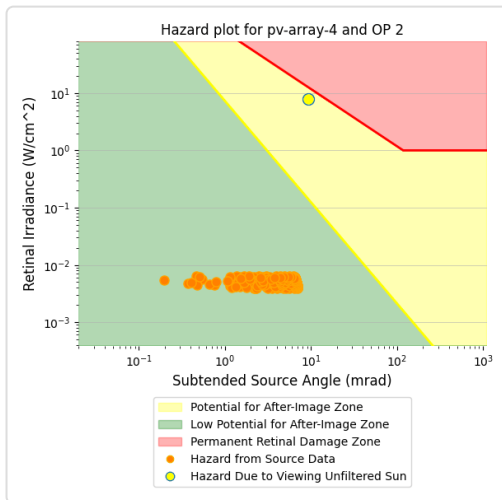
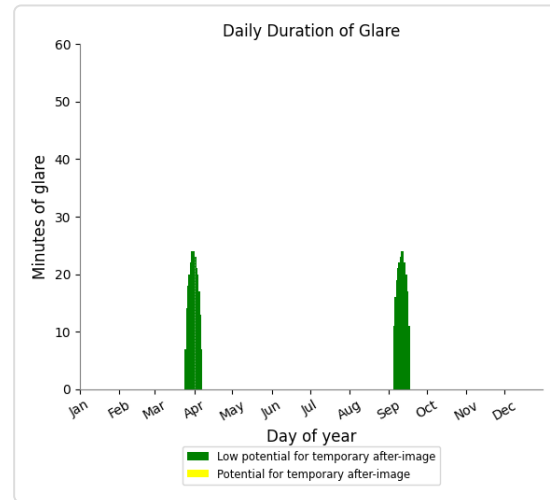
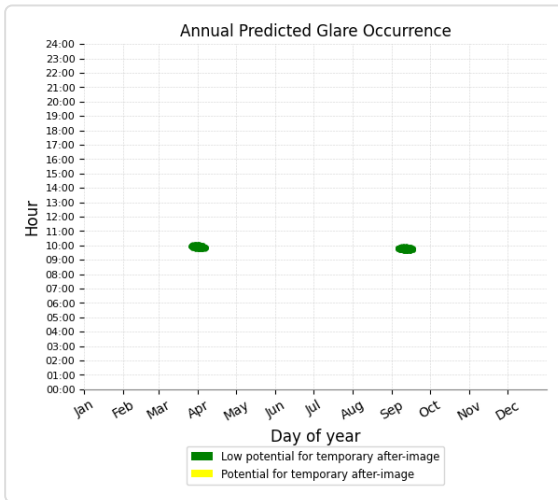
PV array 4 and Route: Approach_05R

No glare found

PV array 4 and OP 2

Yellow glare: none

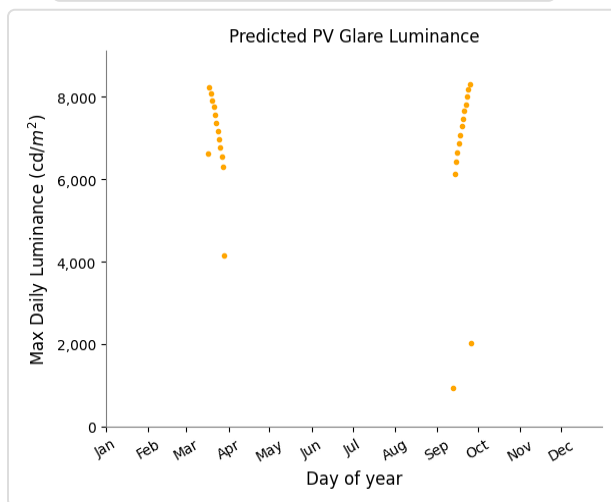
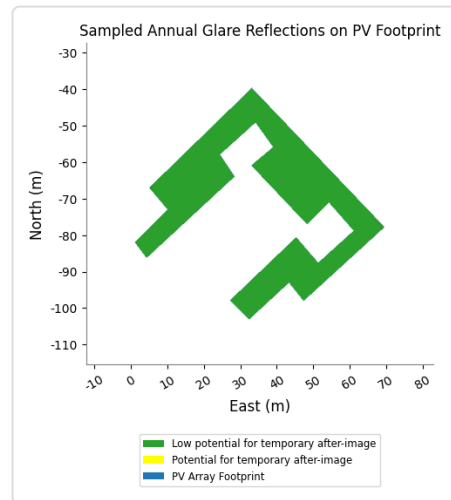
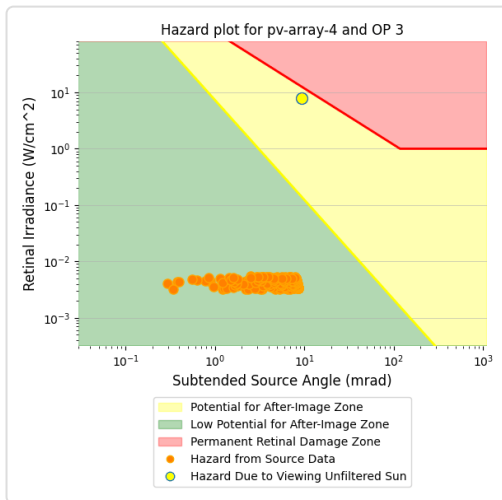
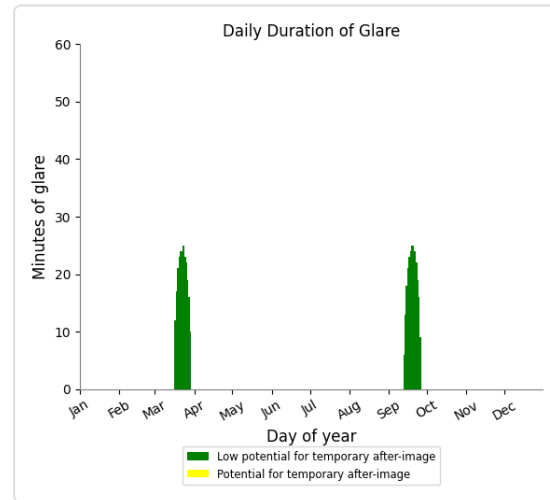
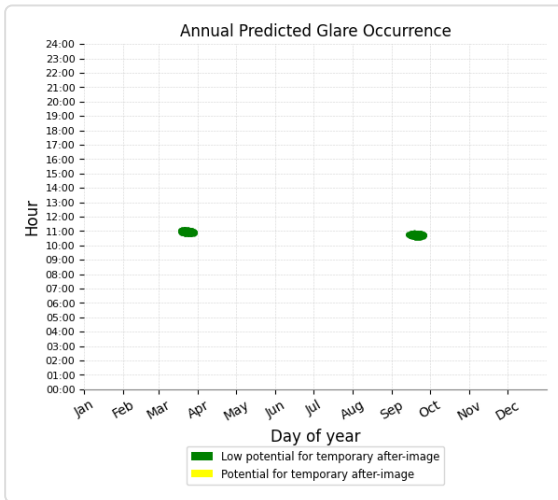
Green glare: 506 min.



PV array 4 and OP 3

Yellow glare: none

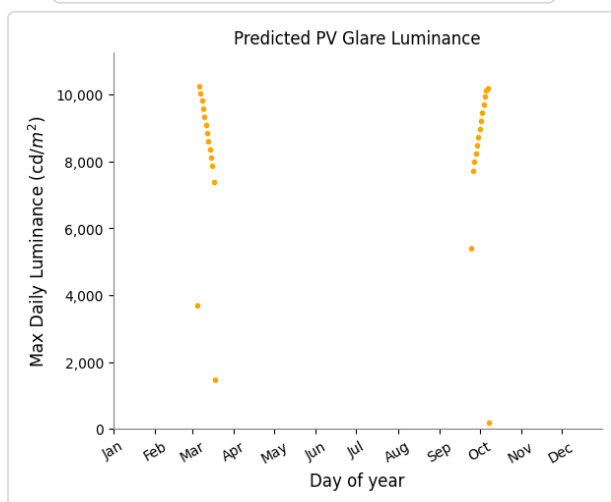
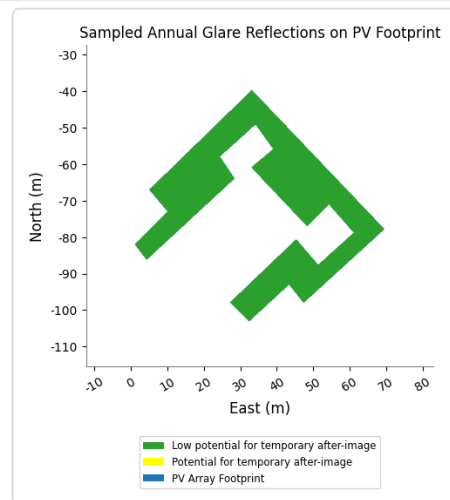
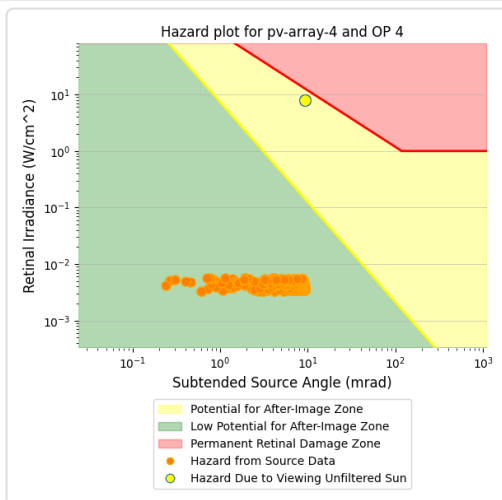
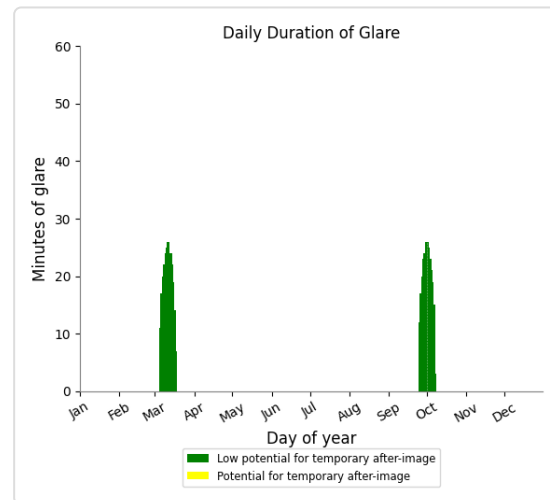
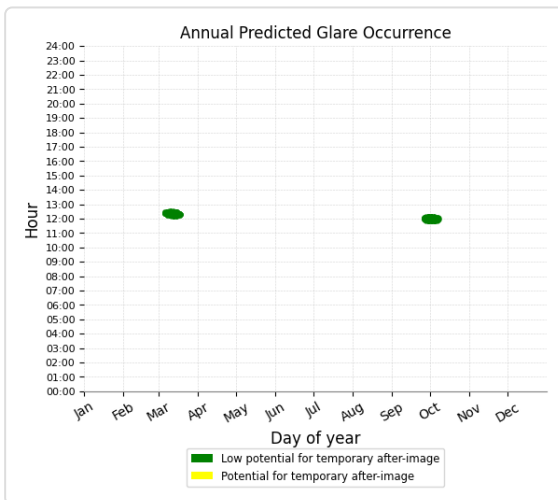
Green glare: 530 min.



PV array 4 and OP 4

Yellow glare: none

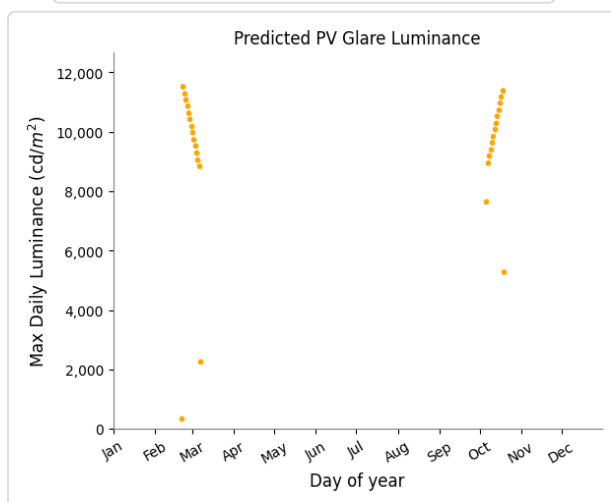
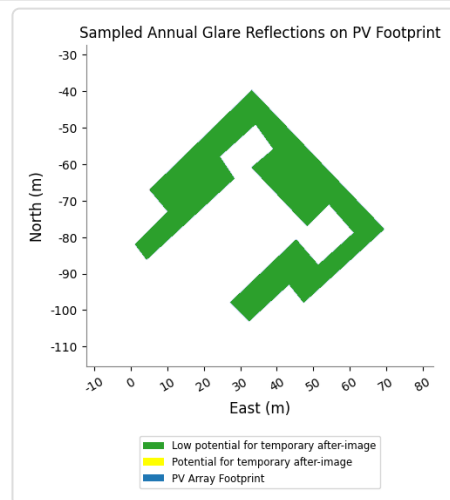
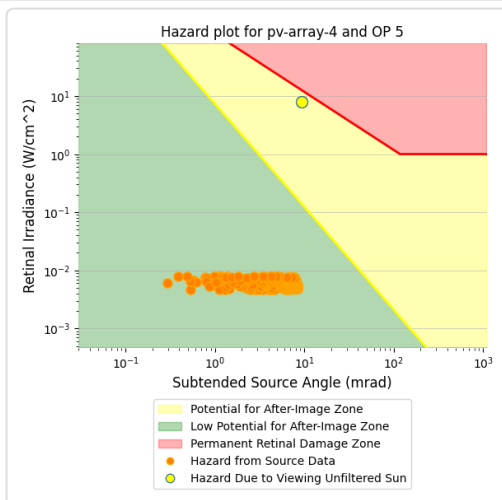
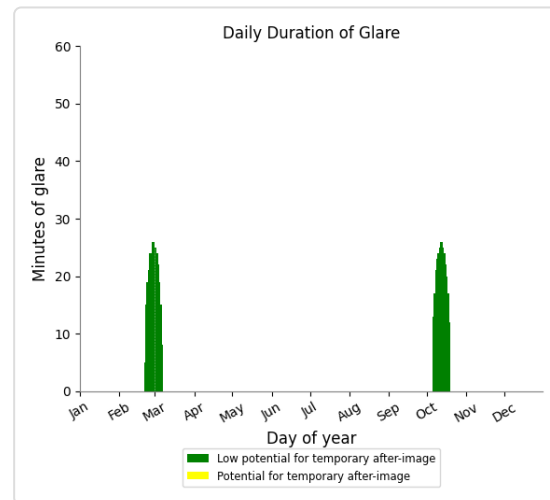
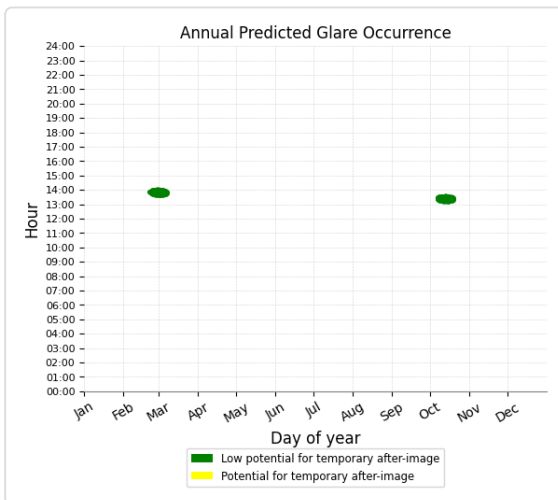
Green glare: 561 min.



PV array 4 and OP 5

Yellow glare: none

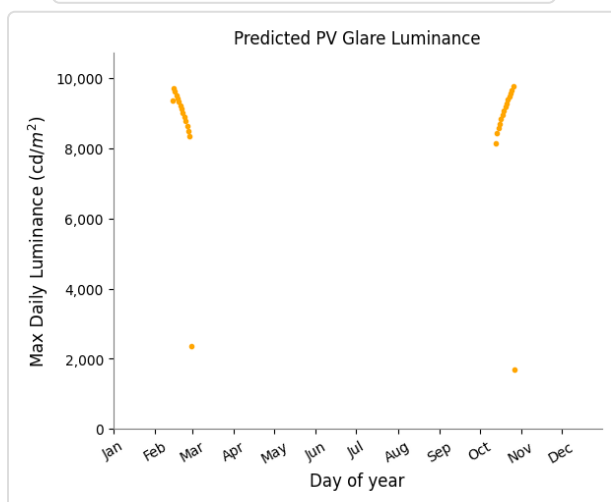
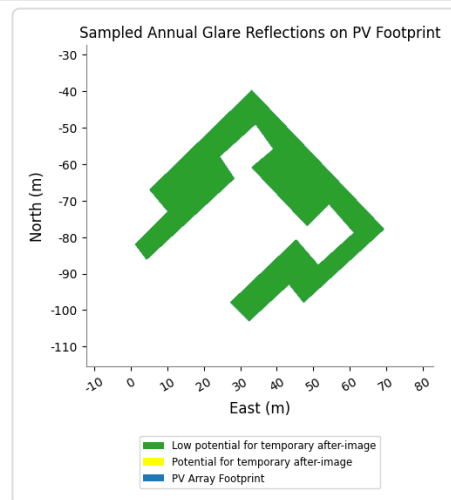
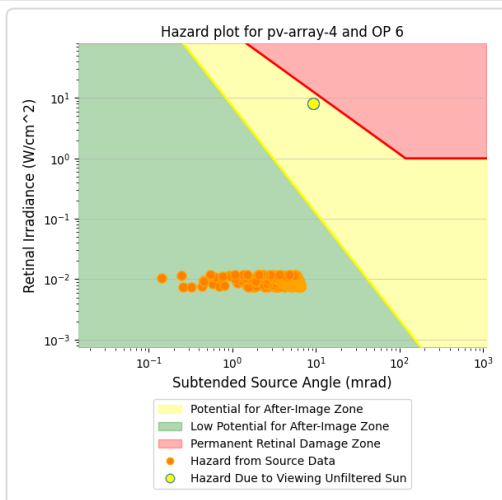
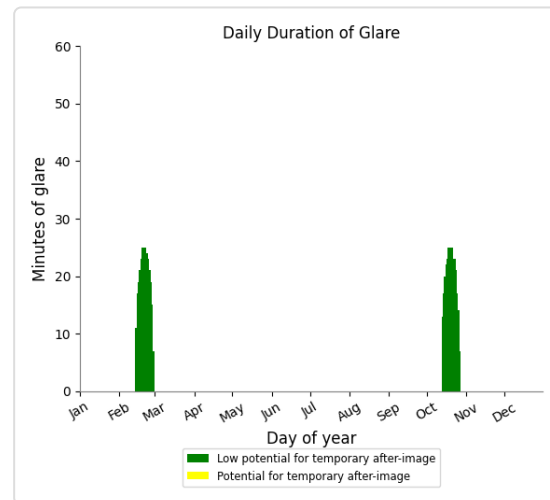
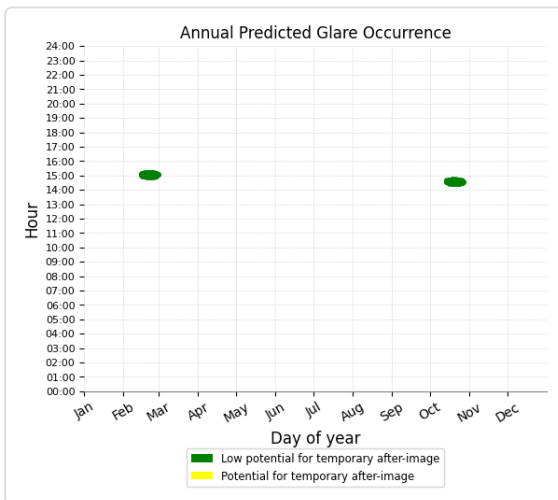
Green glare: 593 min.



PV array 4 and OP 6

Yellow glare: none

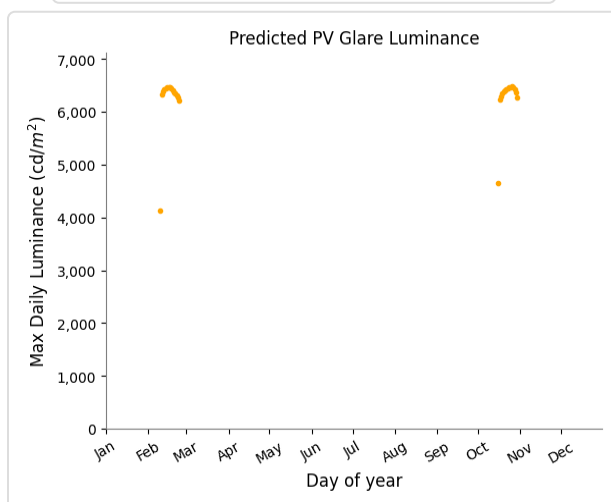
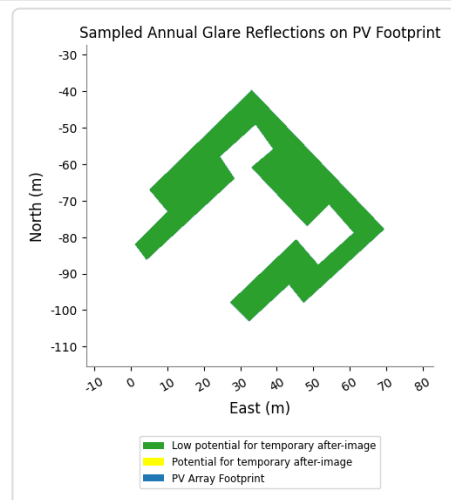
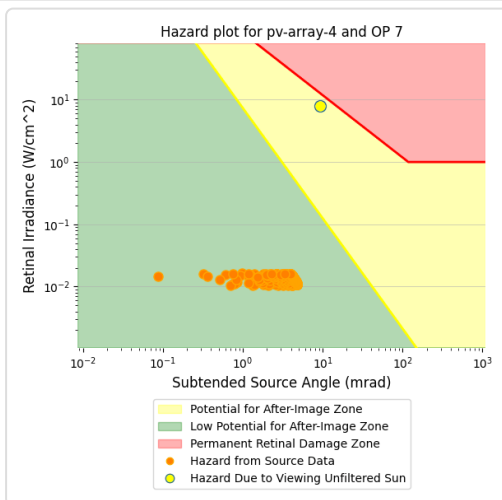
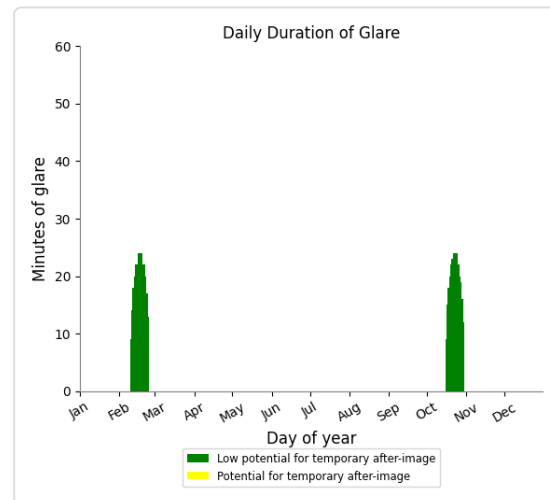
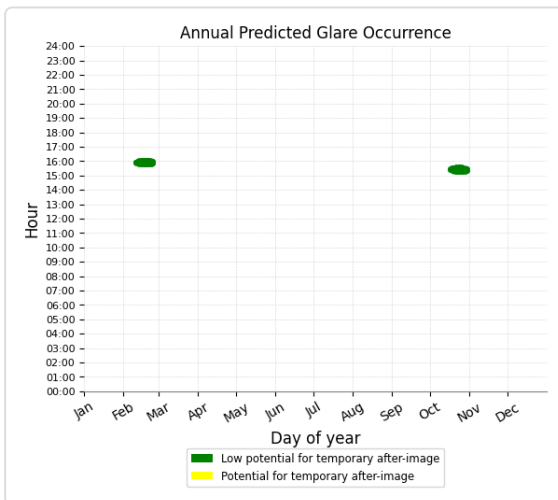
Green glare: 600 min.



PV array 4 and OP 7

Yellow glare: none

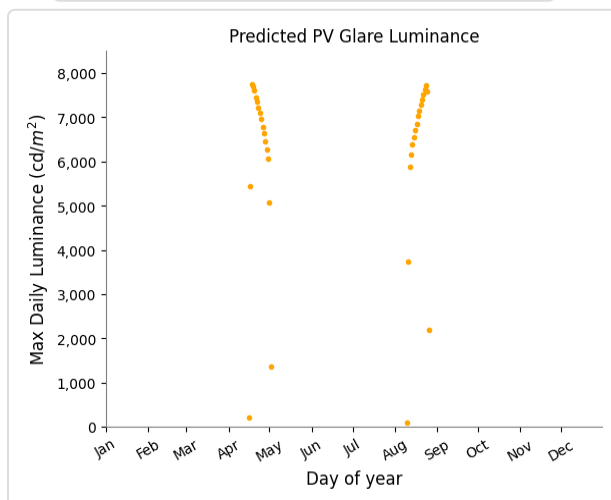
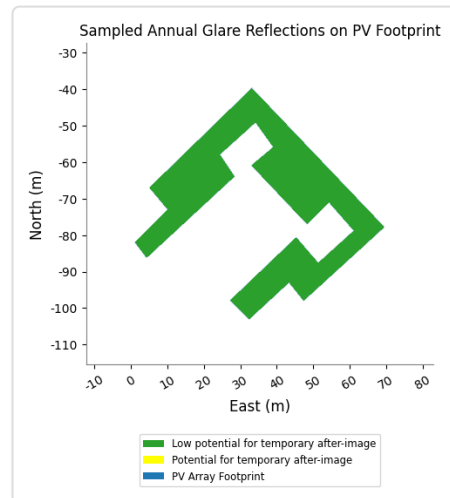
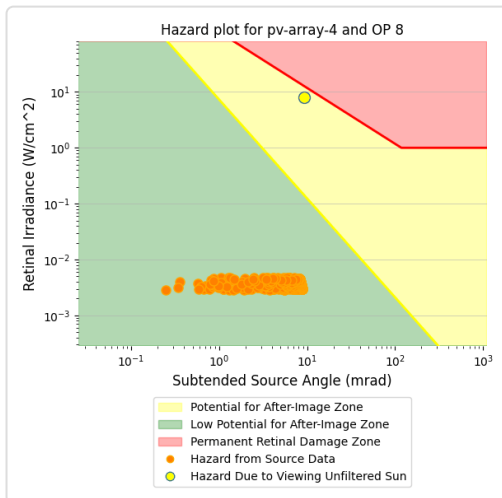
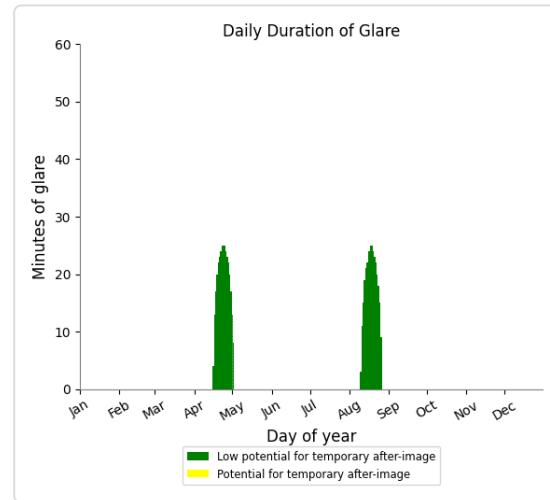
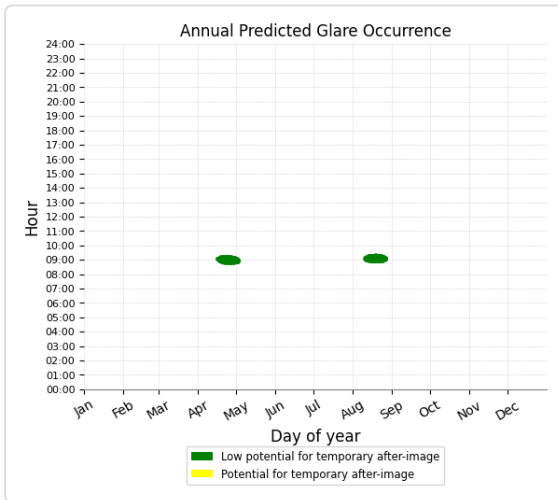
Green glare: 587 min.



PV array 4 and OP 8

Yellow glare: none

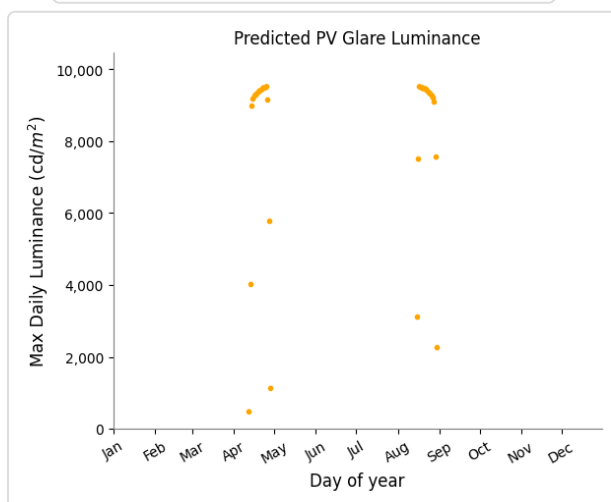
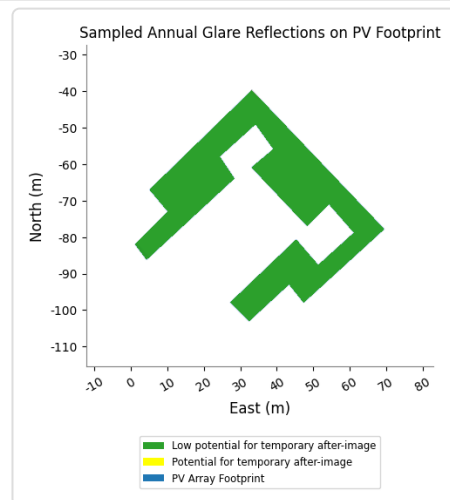
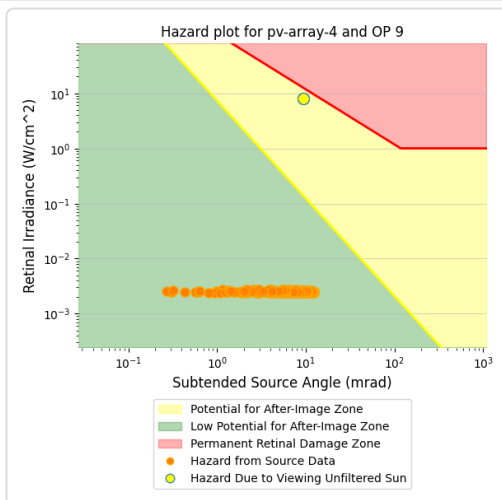
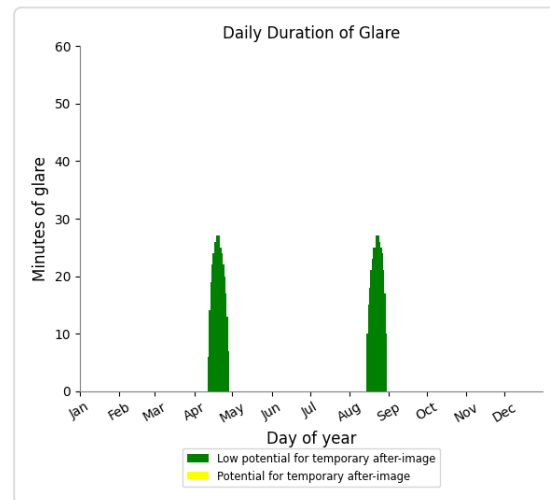
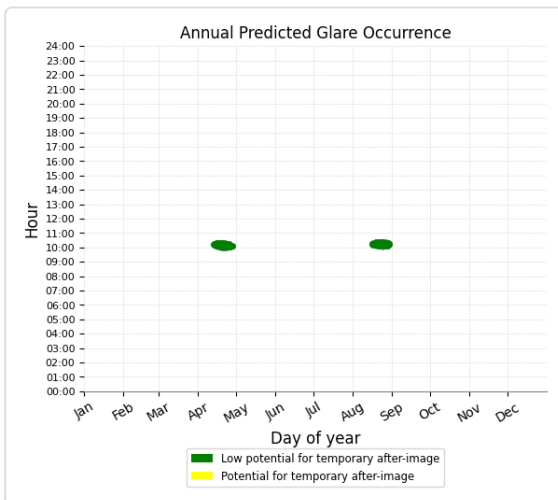
Green glare: 645 min.



PV array 4 and OP 9

Yellow glare: none

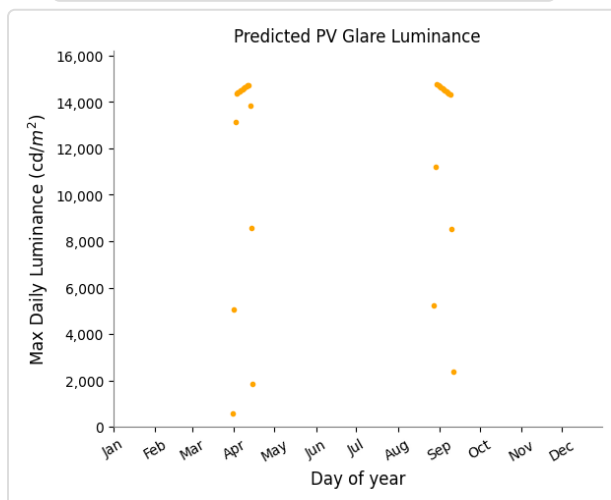
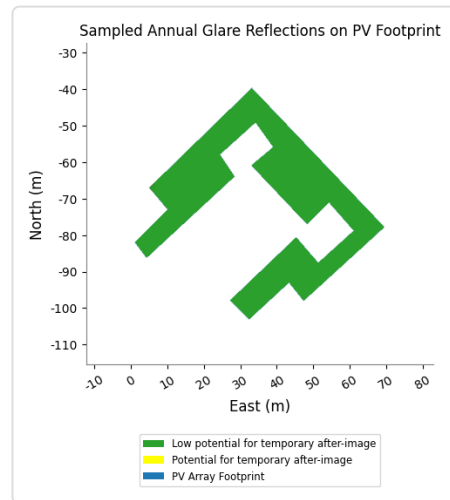
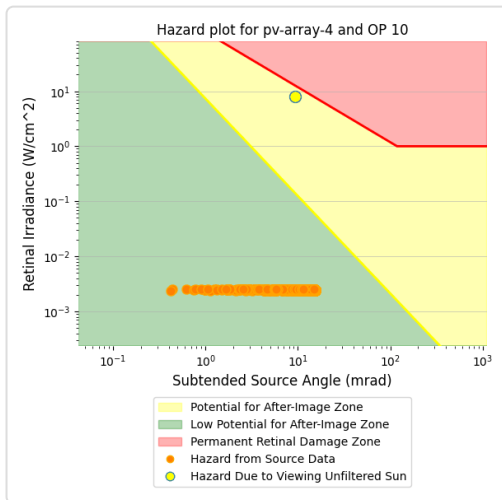
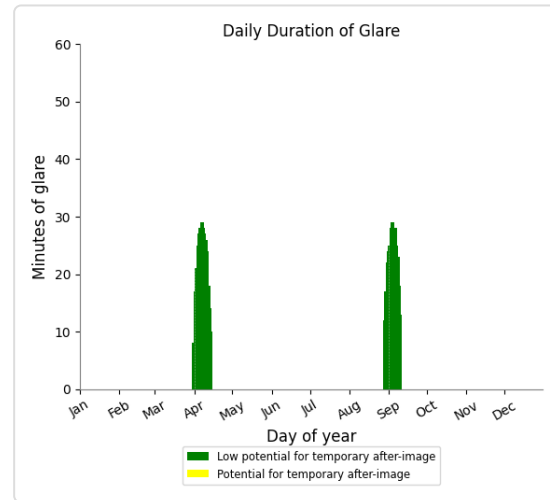
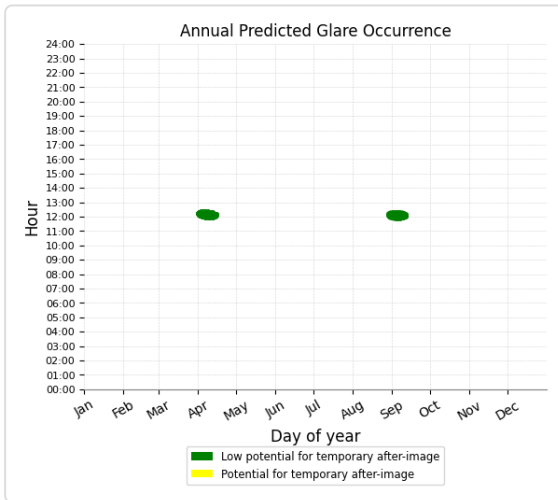
Green glare: 687 min.



PV array 4 and OP 10

Yellow glare: none

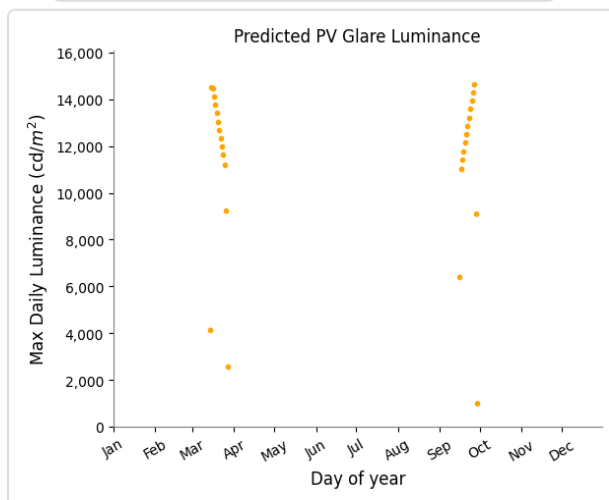
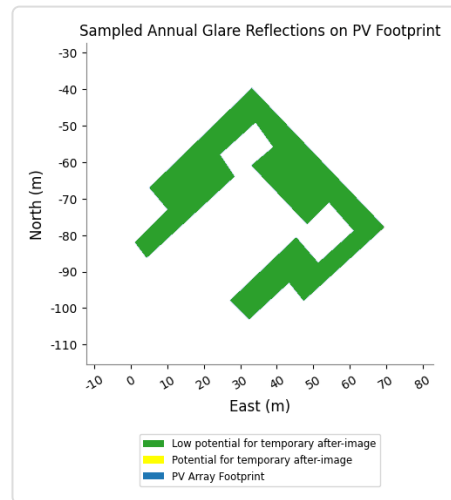
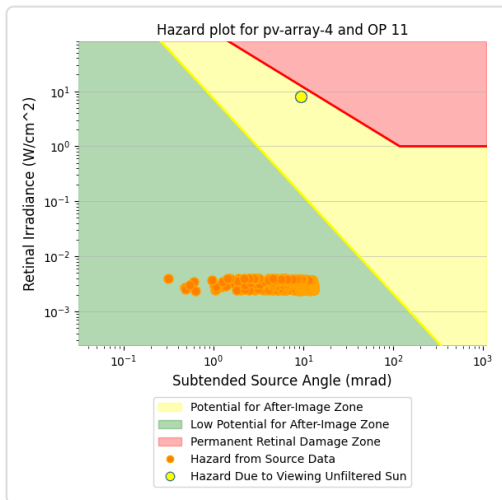
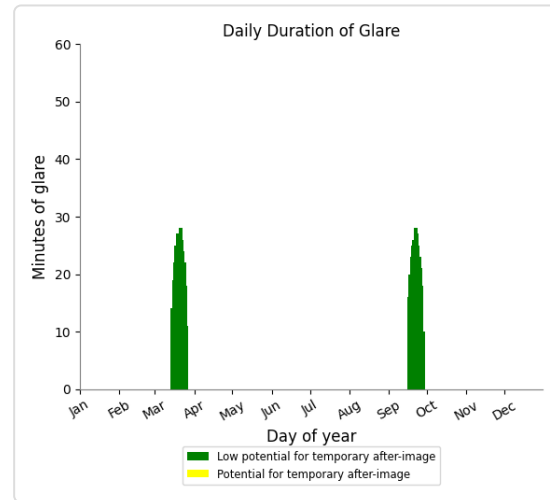
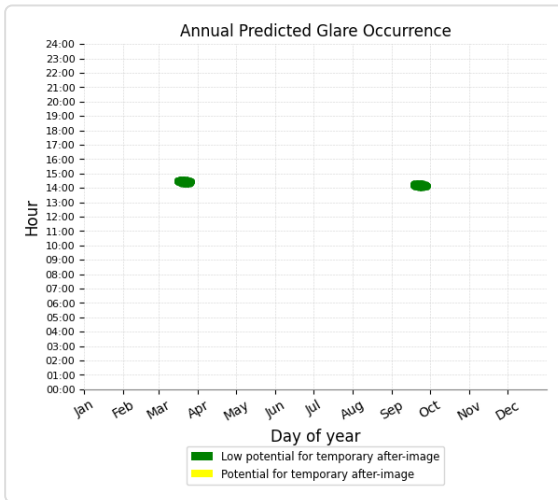
Green glare: 710 min.



PV array 4 and OP 11

Yellow glare: none

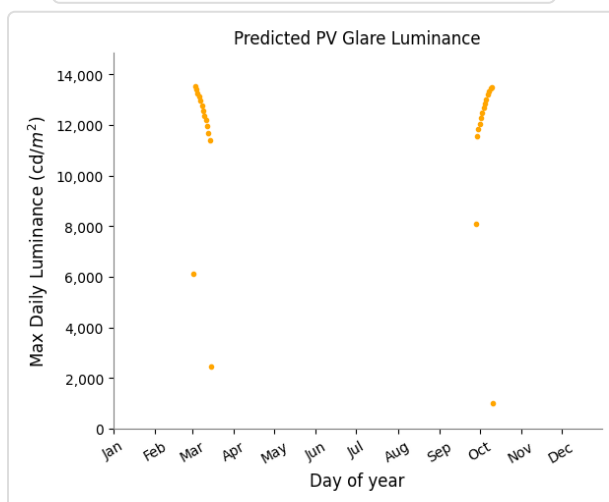
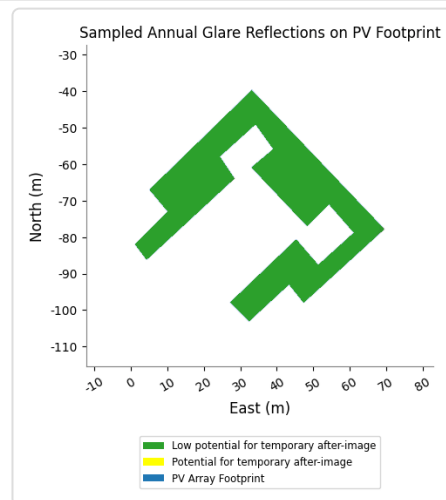
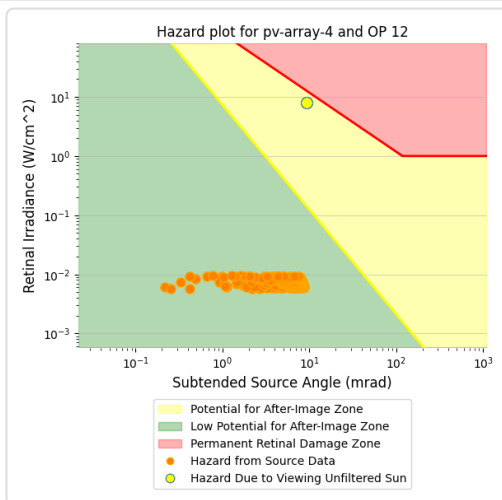
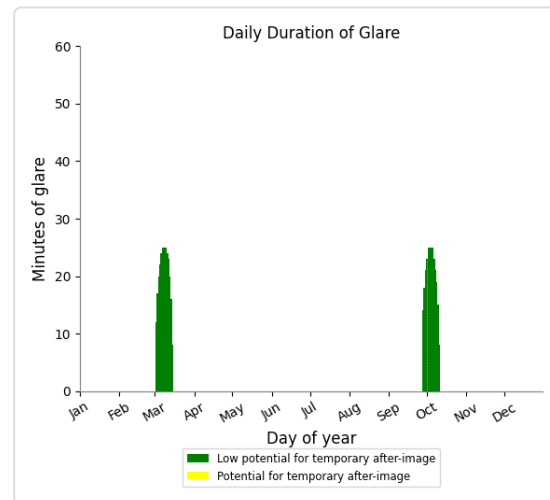
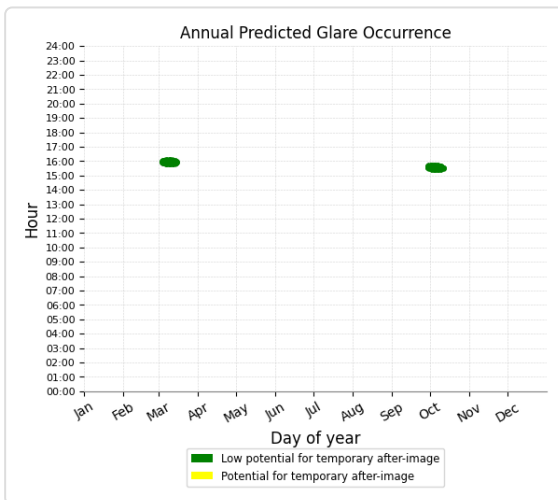
Green glare: 637 min.



PV array 4 and OP 12

Yellow glare: none

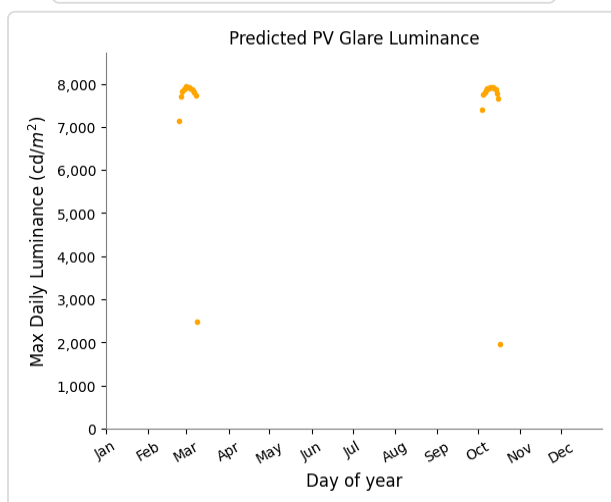
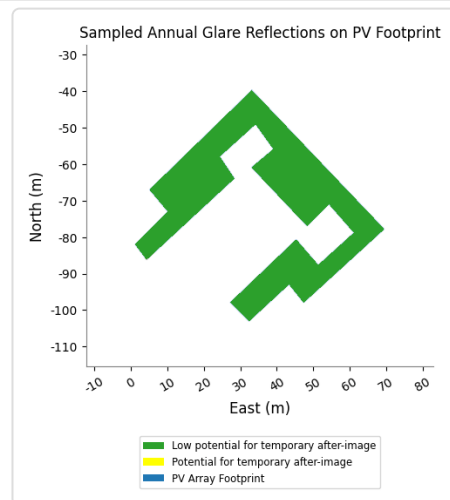
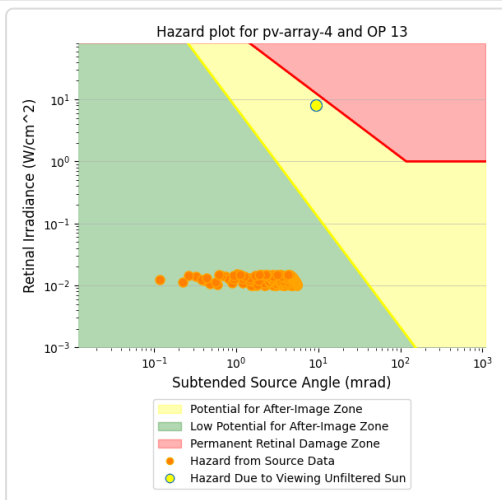
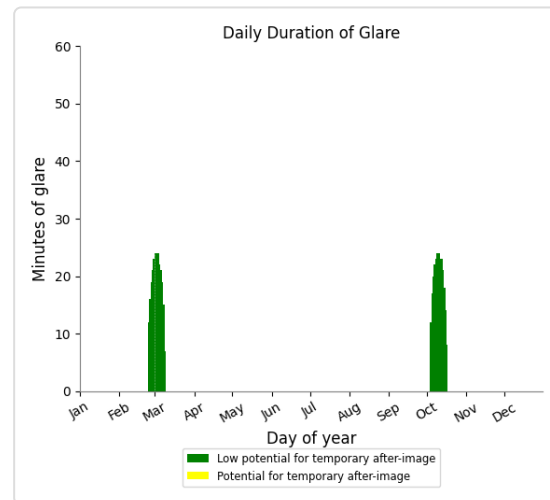
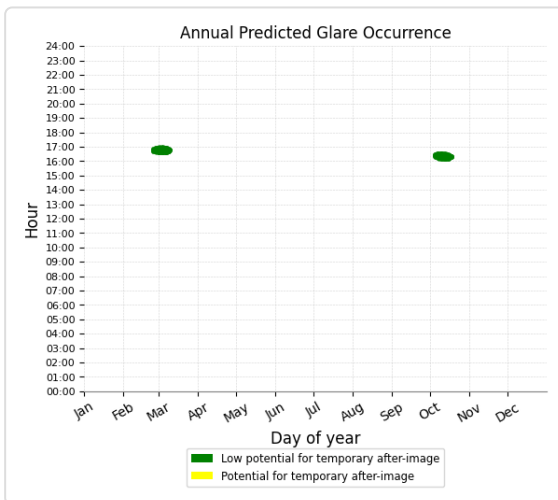
Green glare: 573 min.



PV array 4 and OP 13

Yellow glare: none

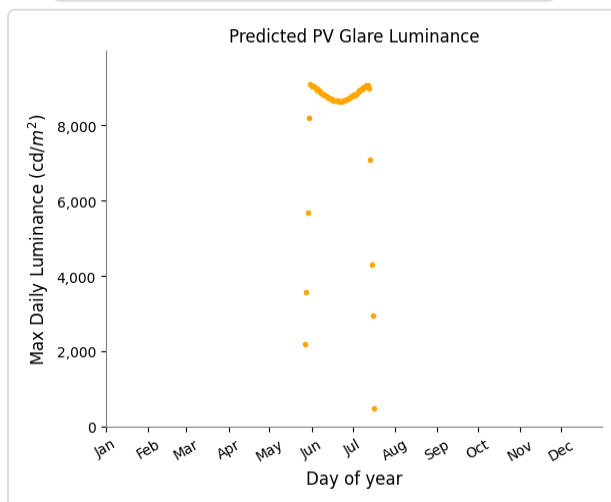
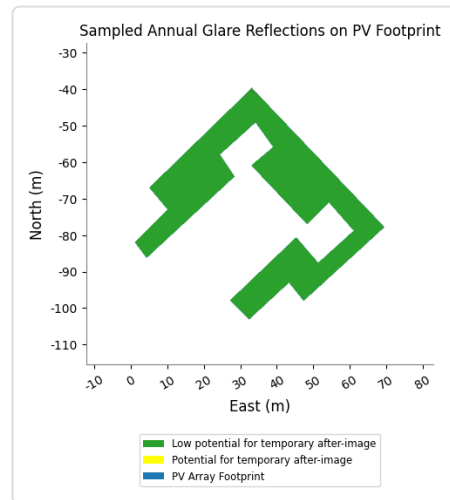
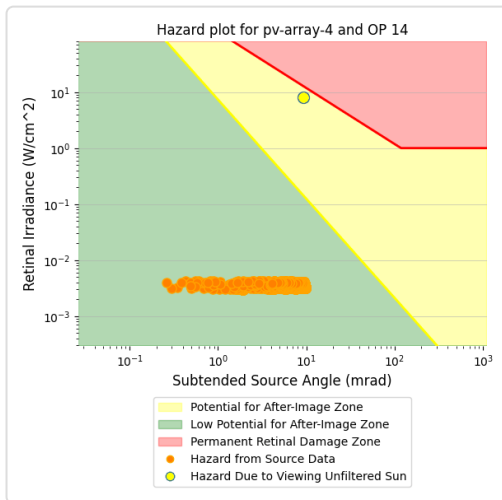
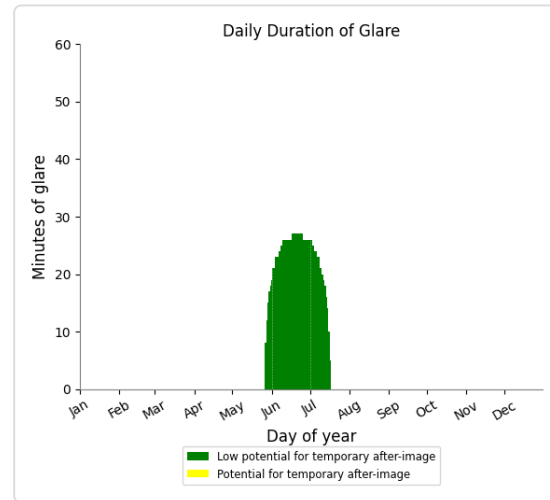
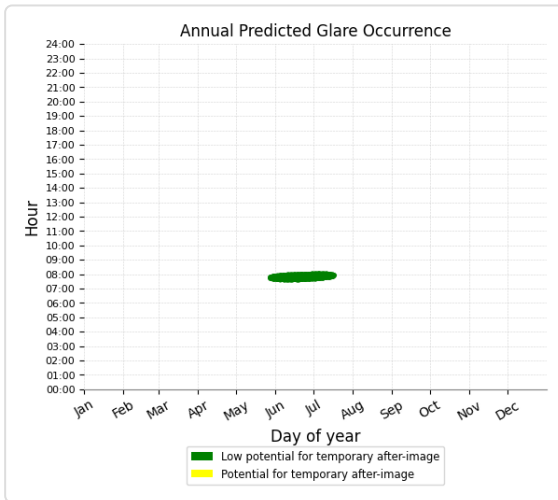
Green glare: 544 min.



PV array 4 and OP 14

Yellow glare: none

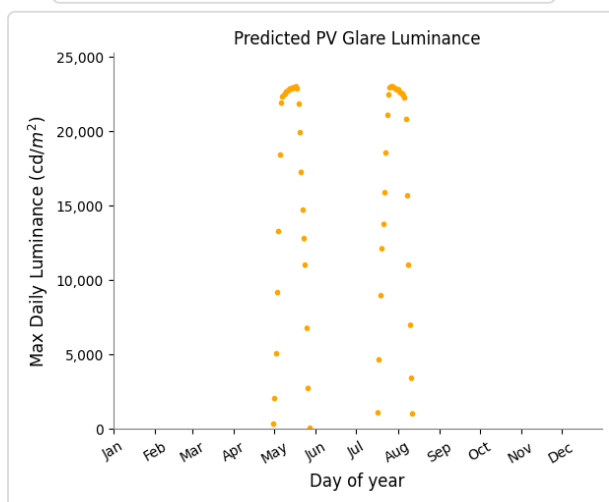
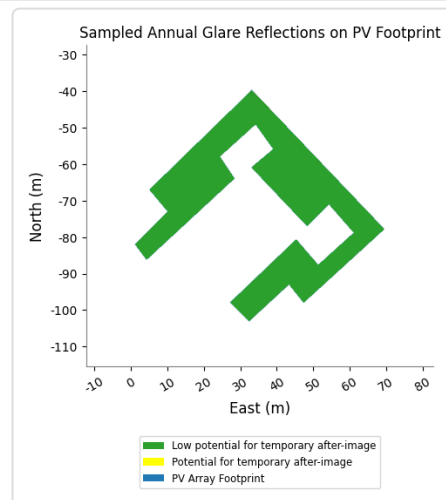
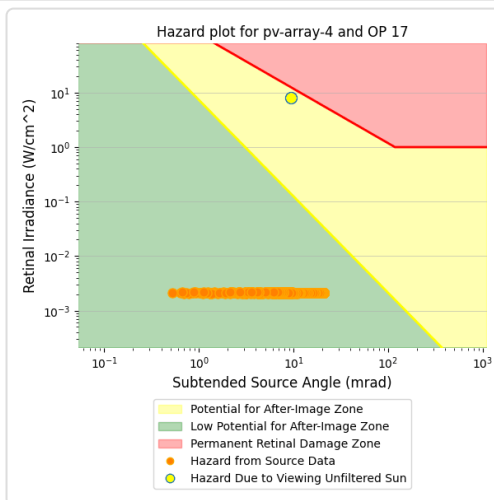
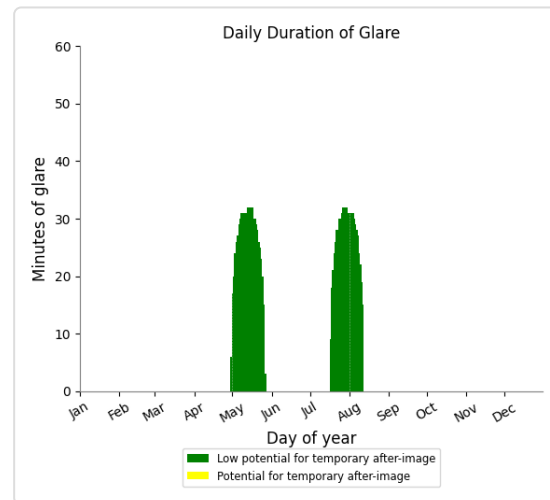
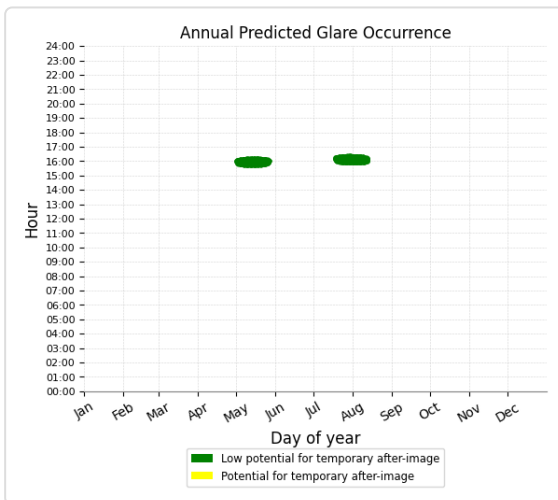
Green glare: 1,169 min.



PV array 4 and OP 17

Yellow glare: none

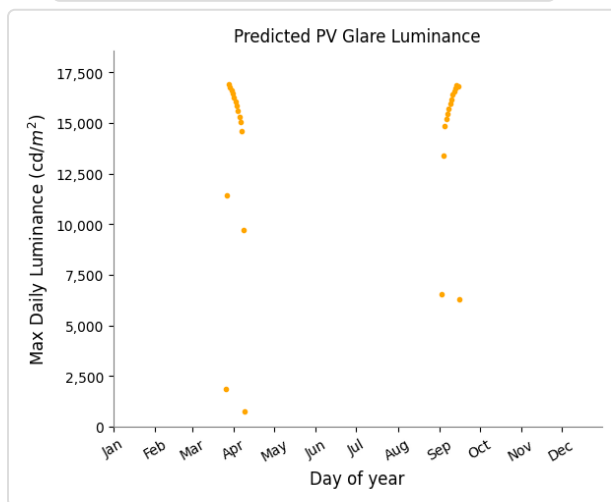
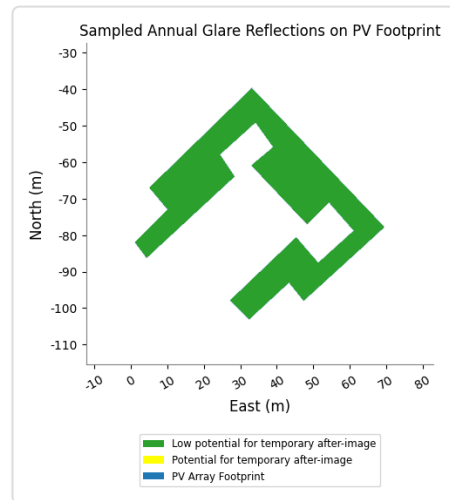
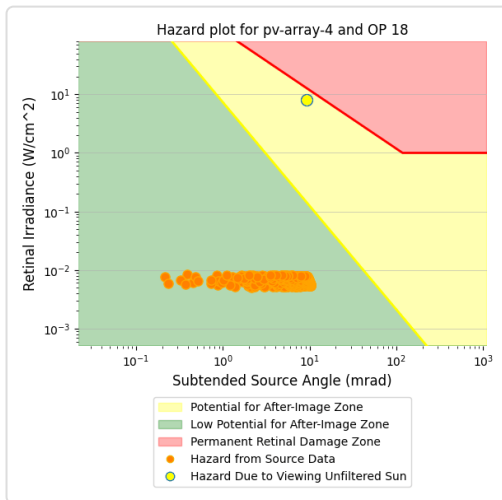
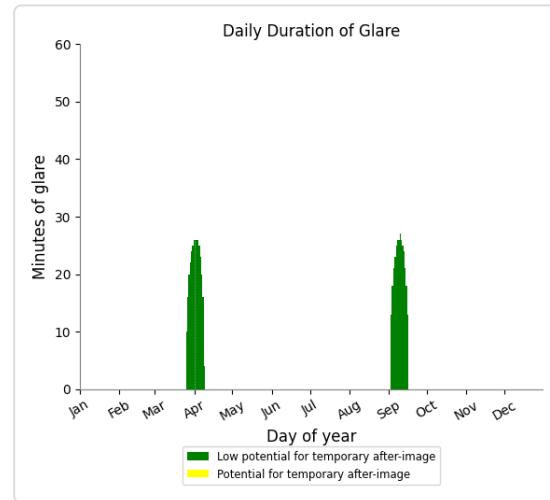
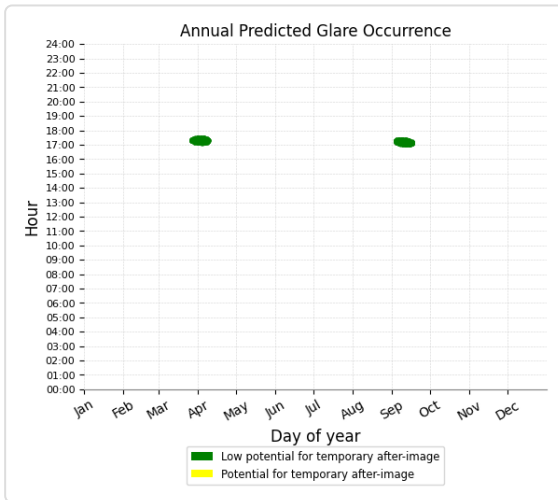
Green glare: 1,445 min.



PV array 4 and OP 18

Yellow glare: none

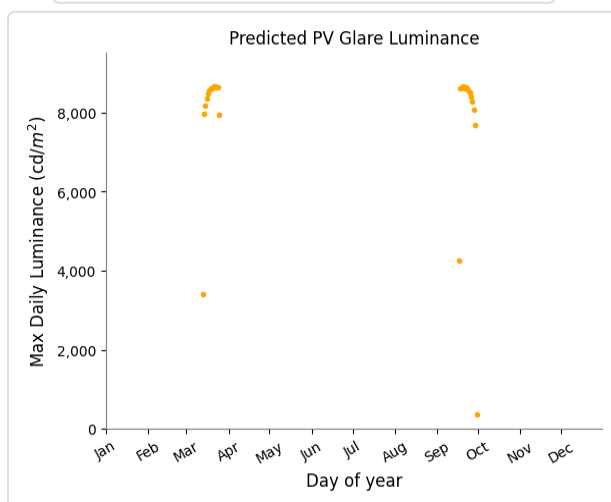
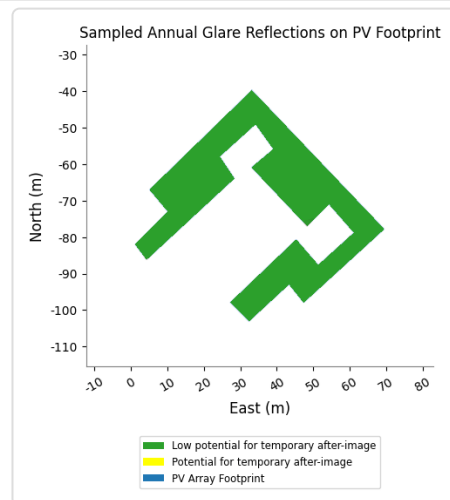
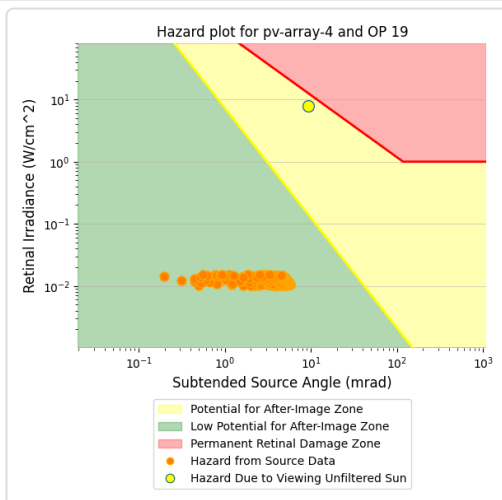
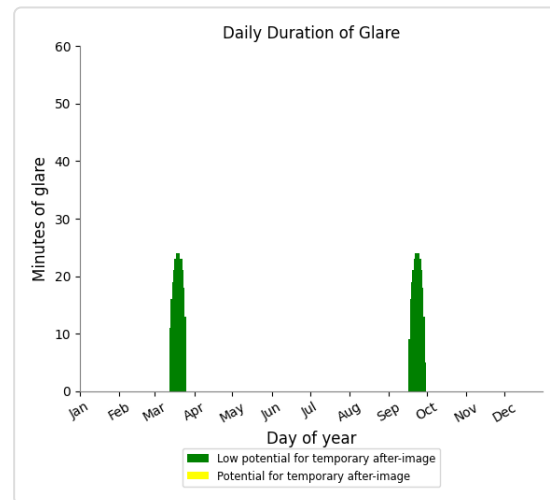
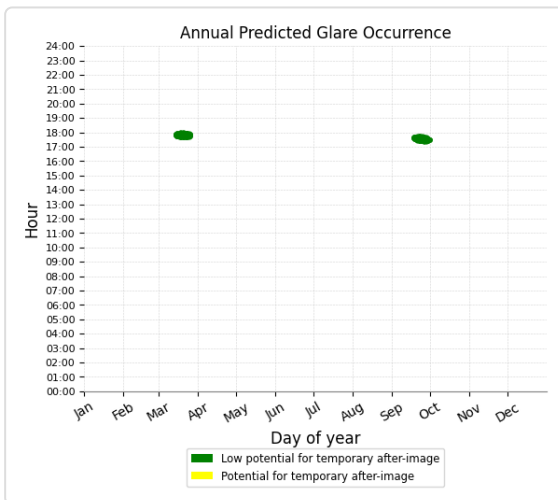
Green glare: 615 min.



PV array 4 and OP 19

Yellow glare: none

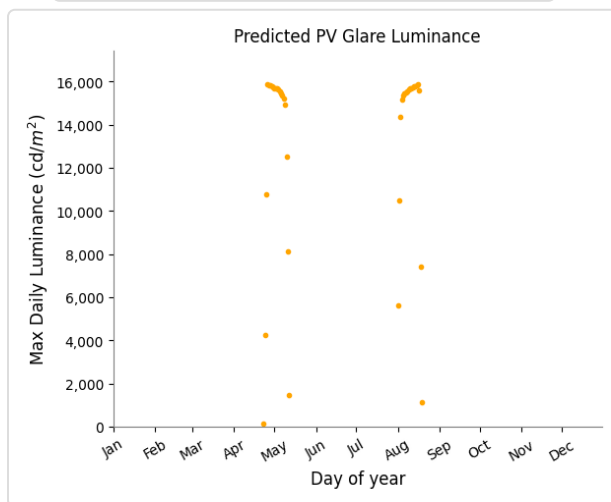
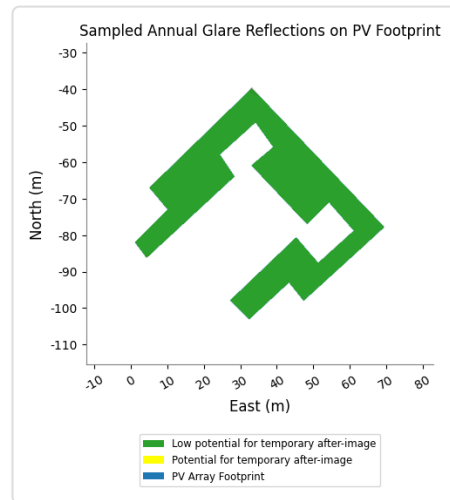
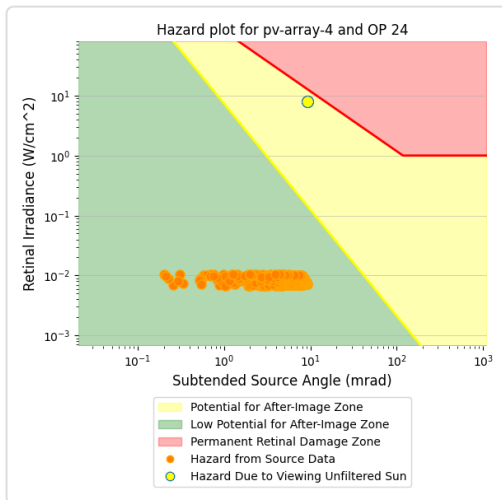
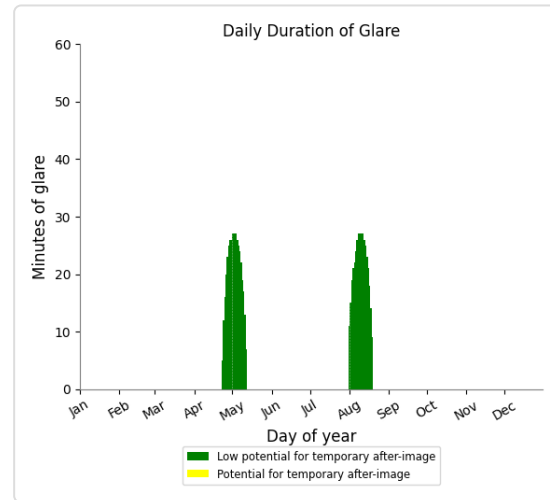
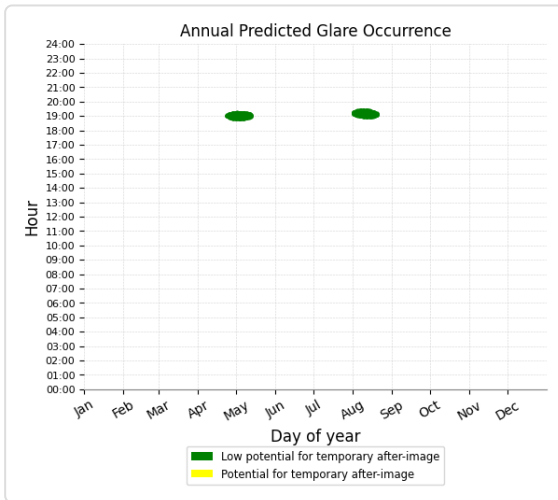
Green glare: 524 min.



PV array 4 and OP 24

Yellow glare: none

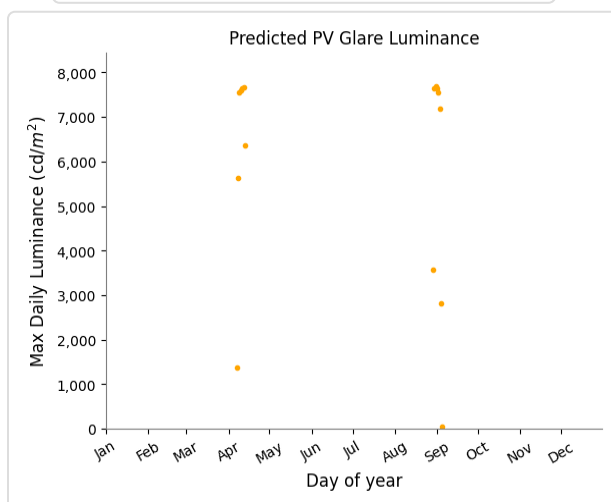
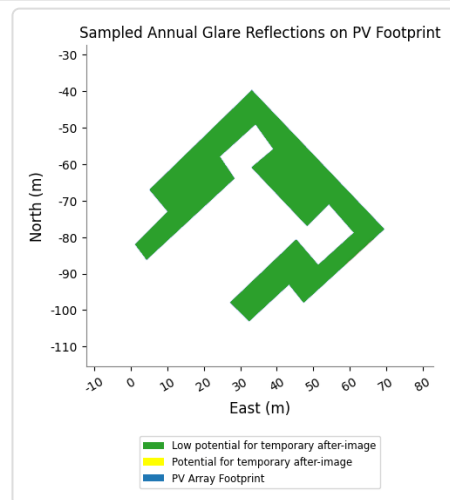
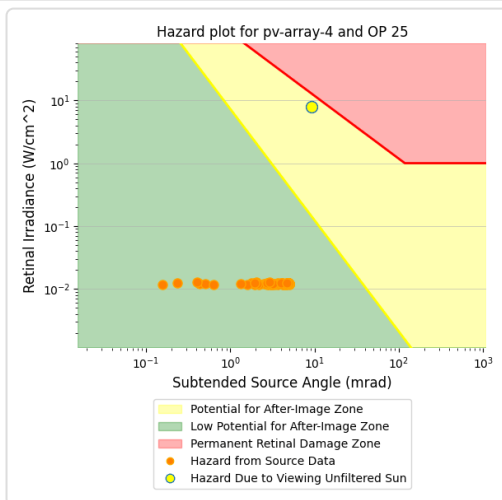
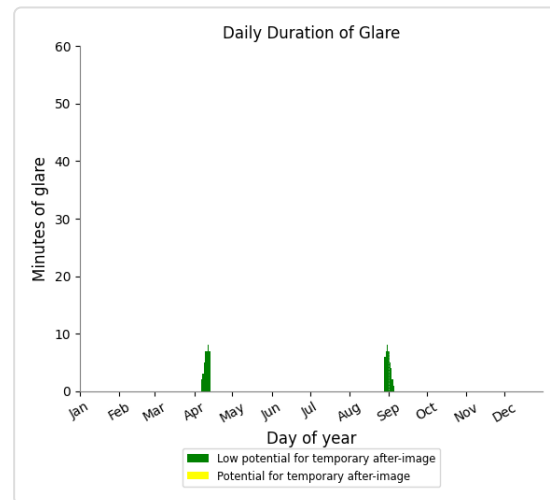
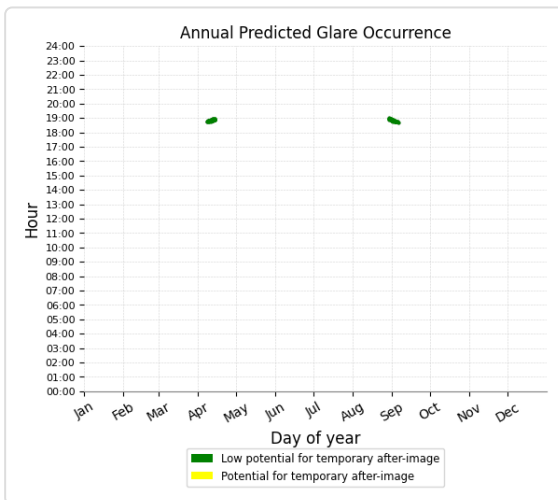
Green glare: 823 min.



PV array 4 and OP 25

Yellow glare: none

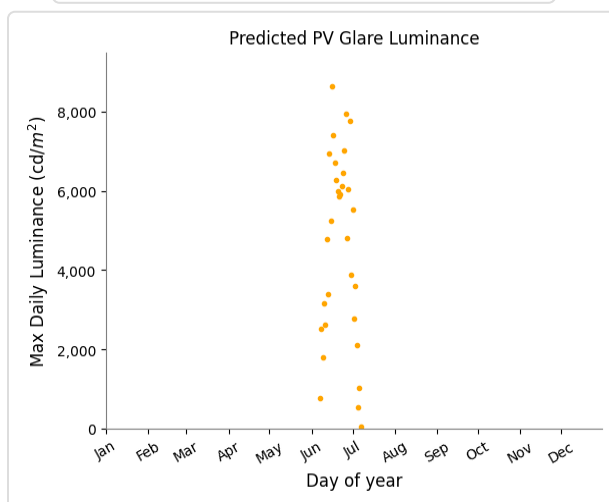
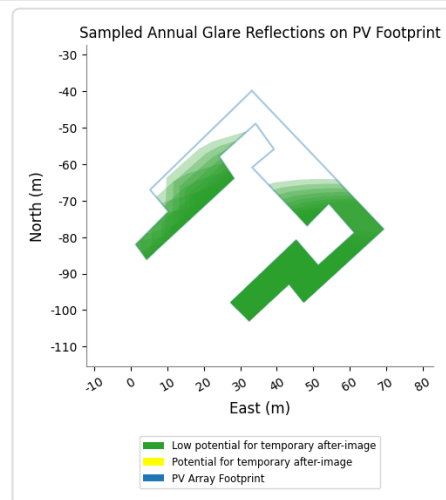
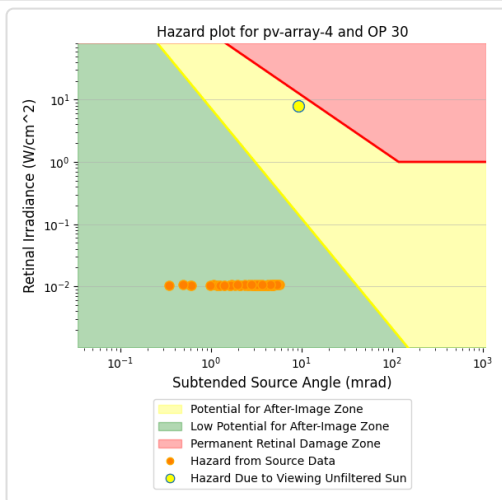
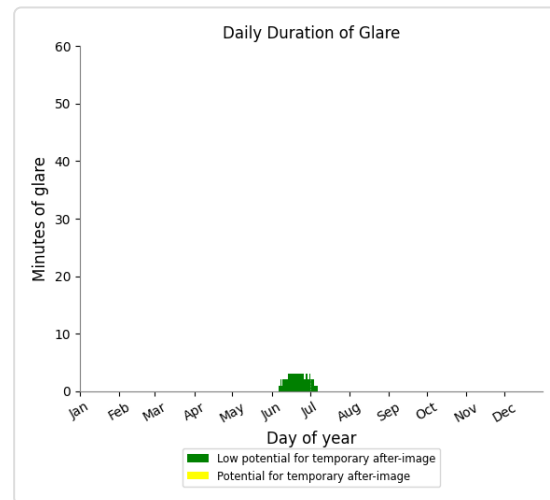
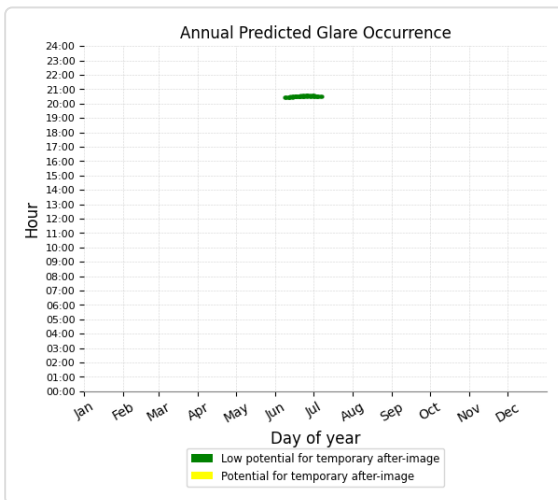
Green glare: 79 min.



PV array 4 and OP 30

Yellow glare: none

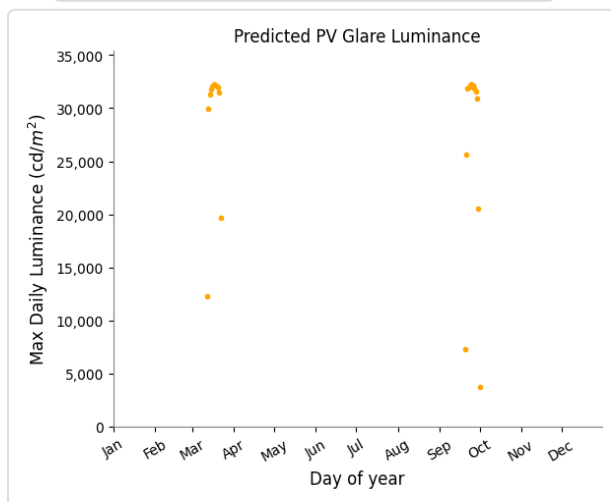
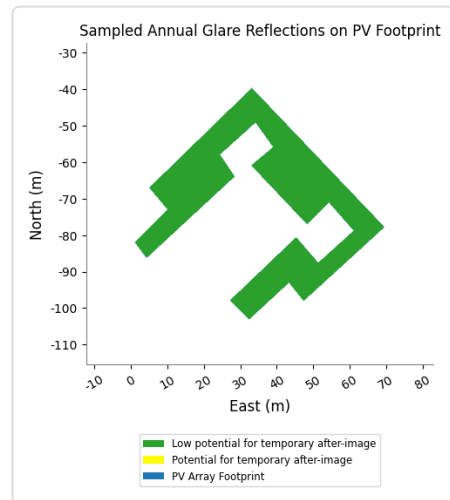
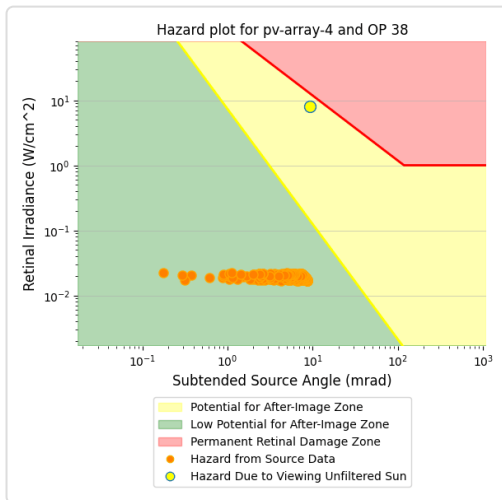
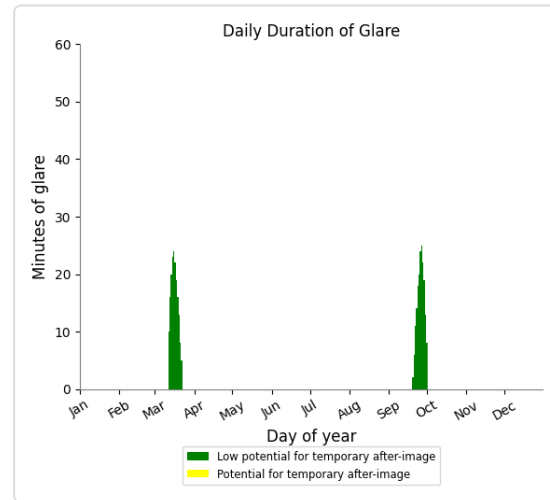
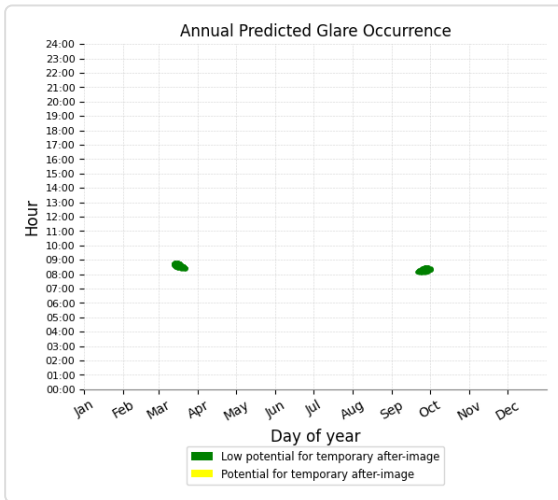
Green glare: 73 min.



PV array 4 and OP 38

Yellow glare: none

Green glare: 358 min.



PV array 4 and 1-ATCT

No glare found

PV array 4 and OP 15

No glare found

PV array 4 and OP 16

No glare found

PV array 4 and OP 20

No glare found

PV array 4 and OP 21

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 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 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 39

No glare found

PV array 4 and OP 40

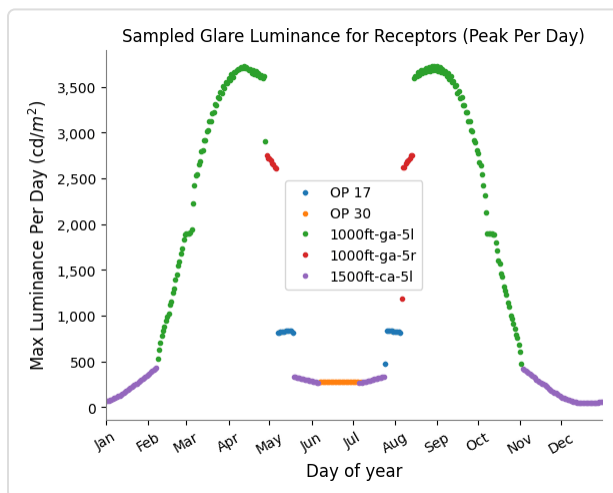
No glare found

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- R_23R-L	4,373	72.9	0	0.0	3,723
1000Ft- GA_5R23L_05R- R_23L-L	2,831	47.2	0	0.0	2,805
1500Ft- CA_5L23R_05L- R_23R-L	21,929	365.5	0	0.0	526
Approach_23L	166	2.8	0	0.0	9
Approach_23R	279	4.7	0	0.0	11
1000Ft- GA_5L23R_05L- L_23R-R	0	0.0	0	0.0	0
1000Ft- GA_5R23L_05R- L_23L-R	0	0.0	0	0.0	0
1500Ft- CA_5L23R_05L- L_23R-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 2	411	6.8	0	0.0	172
OP 3	410	6.8	0	0.0	227
OP 4	395	6.6	0	0.0	284
OP 5	440	7.3	0	0.0	312
OP 6	468	7.8	0	0.0	254
OP 7	489	8.2	0	0.0	164
OP 8	492	8.2	0	0.0	215
OP 9	476	7.9	0	0.0	281
OP 10	433	7.2	0	0.0	459
OP 11	415	6.9	0	0.0	450
OP 12	419	7.0	0	0.0	368
OP 13	434	7.2	0	0.0	205
OP 14	1,038	17.3	0	0.0	259
OP 17	669	11.2	0	0.0	835
OP 18	417	7.0	0	0.0	477
OP 19	410	6.8	0	0.0	227
OP 24	561	9.3	0	0.0	442
OP 25	67	1.1	0	0.0	201

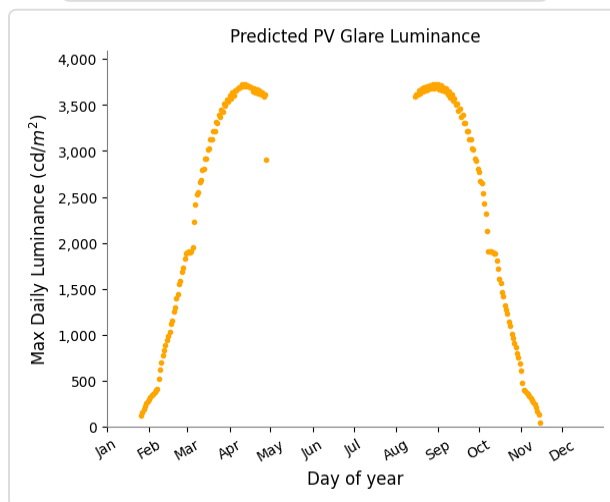
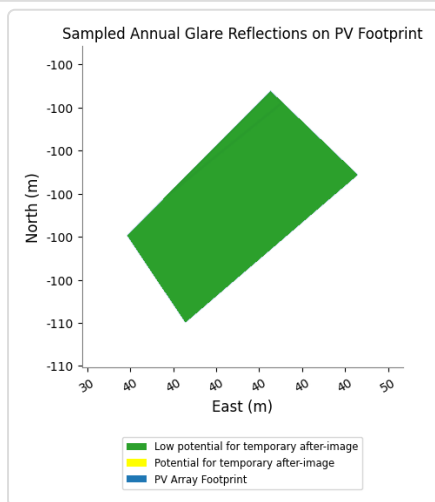
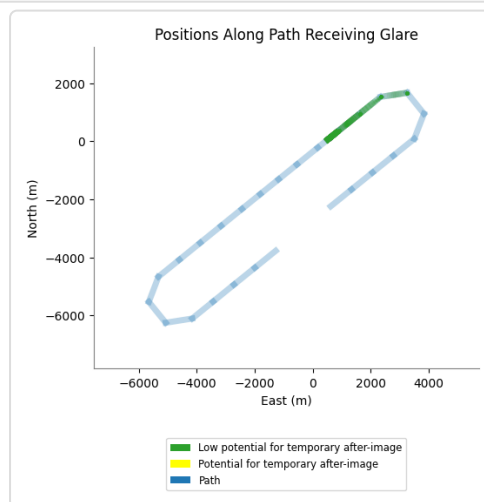
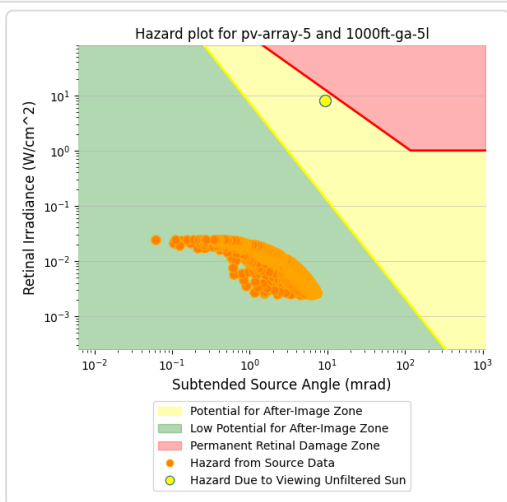
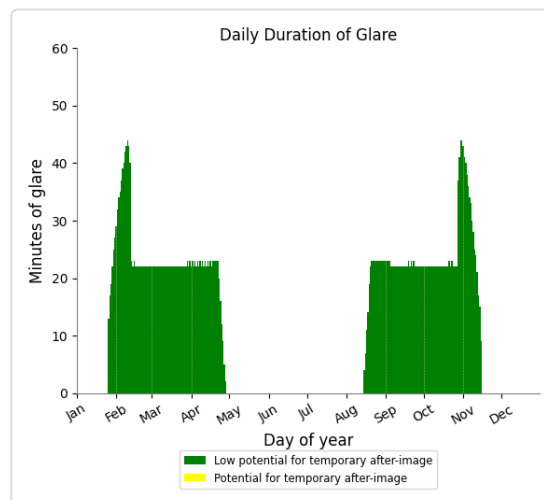
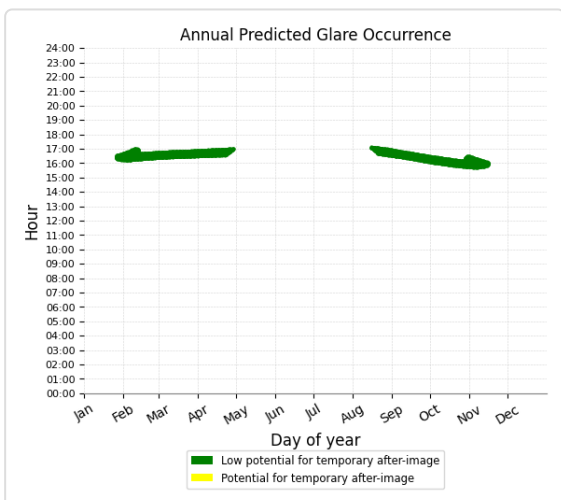
Receptor	Annual Green Glare		Annual Yellow Glare		Peak Luminance
	min	hr	min	hr	cd/m ²
OP 30	84	1.4	0	0.0	278
OP 38	258	4.3	0	0.0	885
1-ATCT	0	0.0	0	0.0	0
OP 15	0	0.0	0	0.0	0
OP 16	0	0.0	0	0.0	0
OP 20	0	0.0	0	0.0	0
OP 21	0	0.0	0	0.0	0
OP 22	0	0.0	0	0.0	0
OP 23	0	0.0	0	0.0	0
OP 26	0	0.0	0	0.0	0
OP 27	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 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 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-R_23R-L

Yellow glare: none

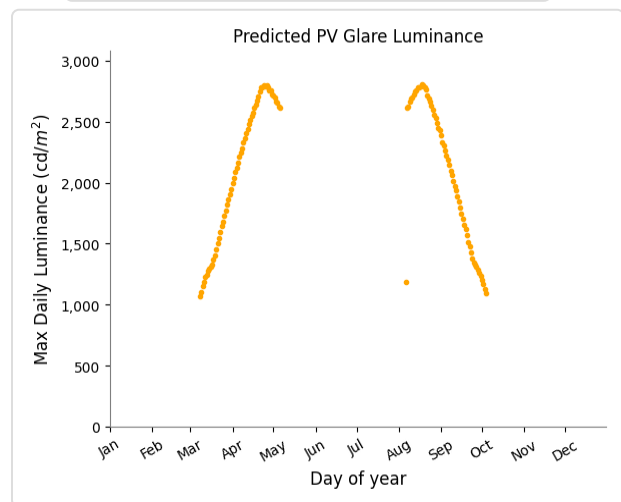
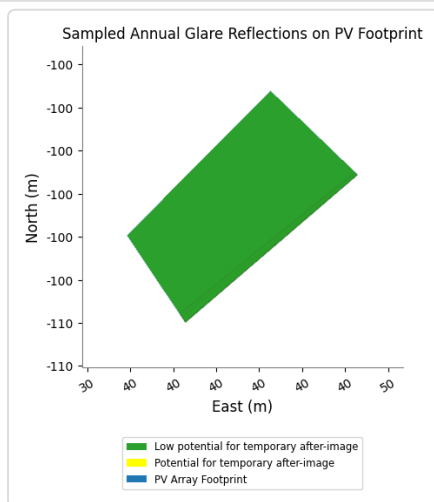
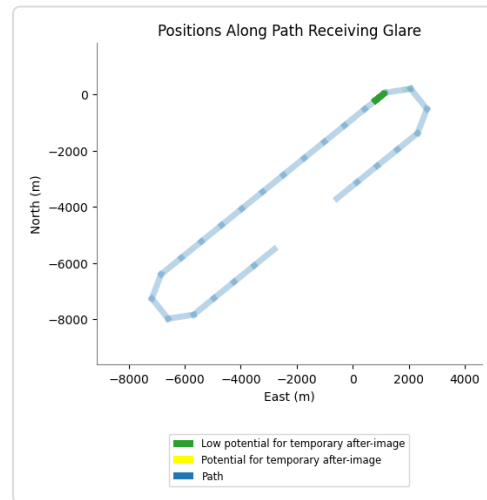
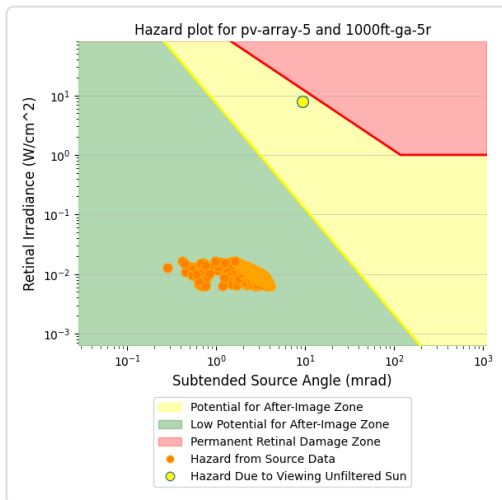
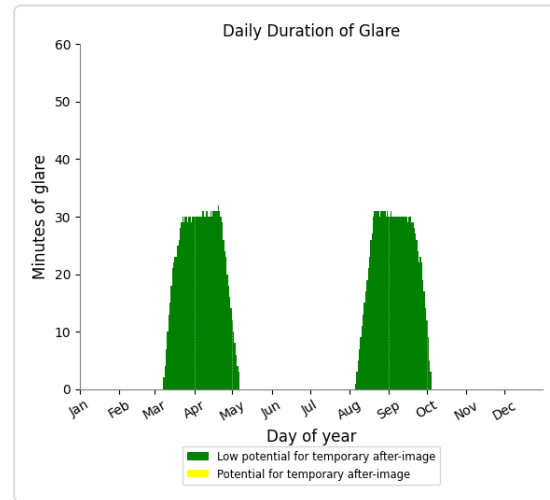
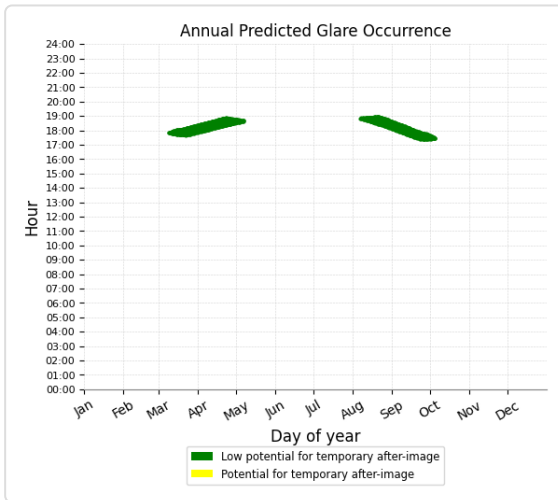
Green glare: 4,373 min.



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

Yellow glare: none

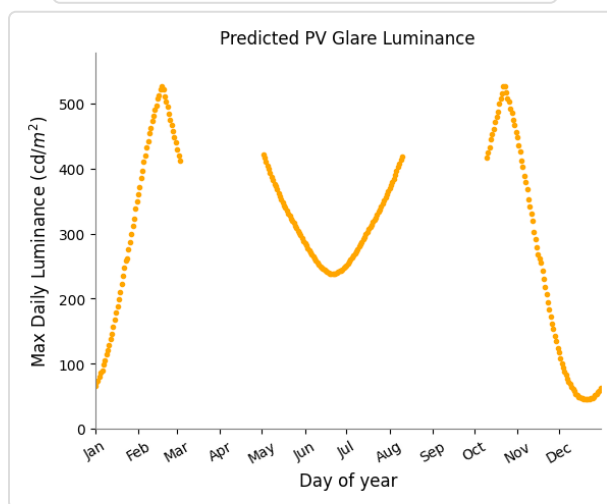
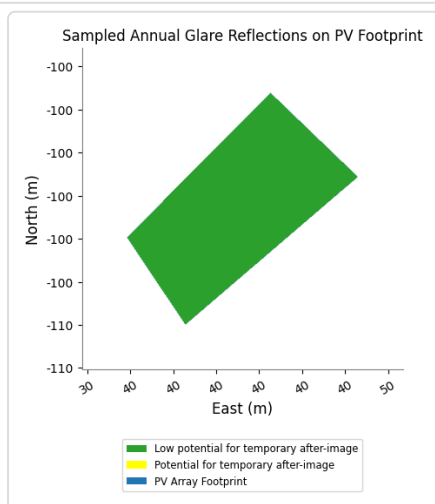
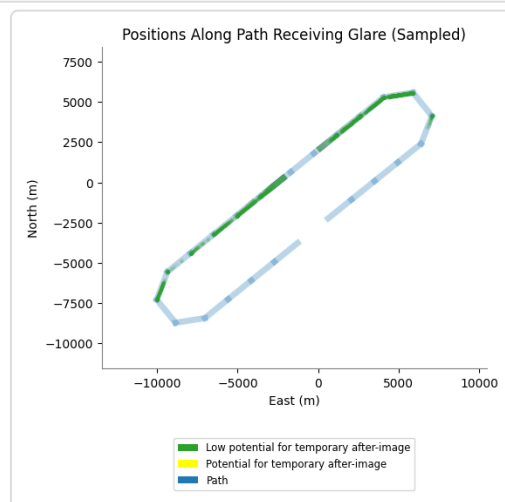
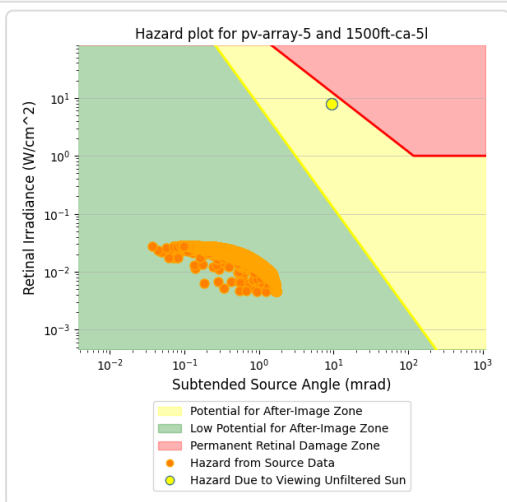
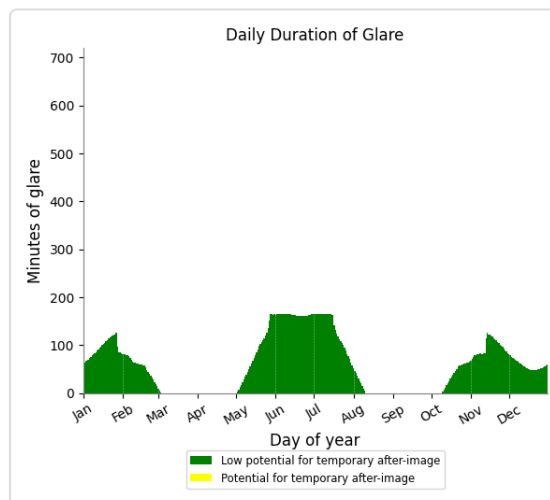
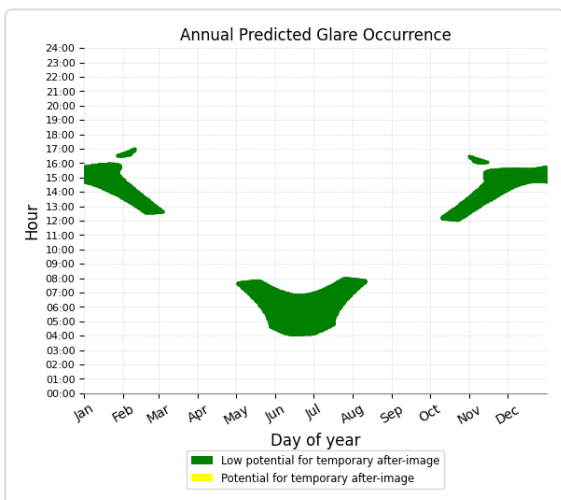
Green glare: 2,831 min.



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

Yellow glare: none

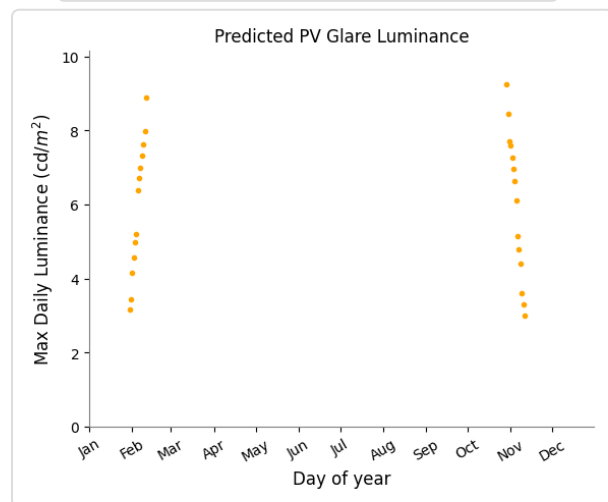
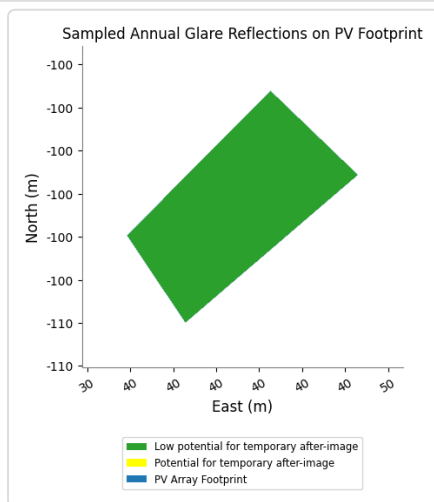
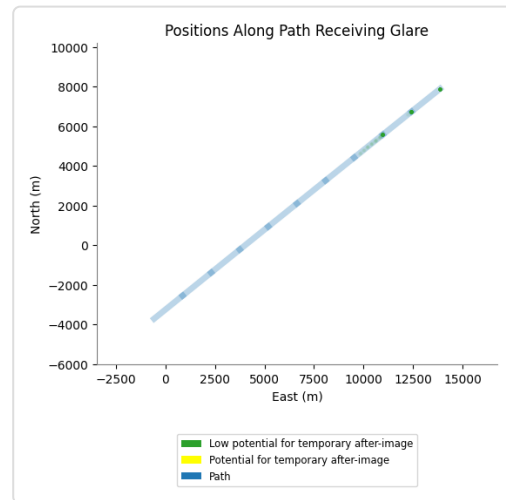
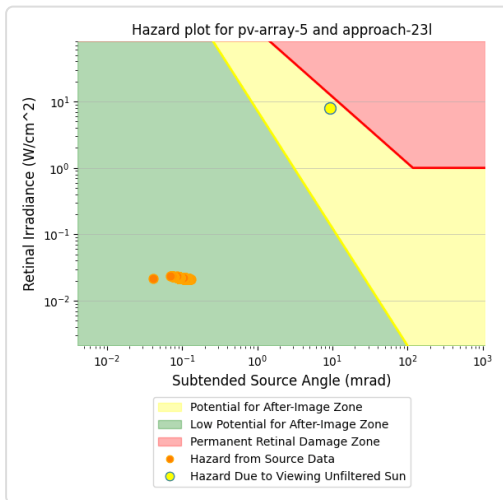
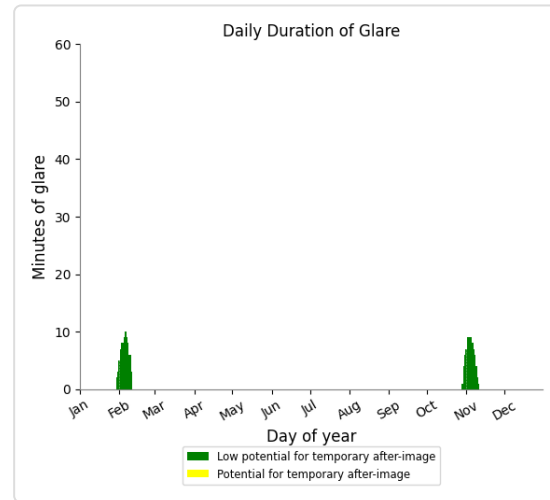
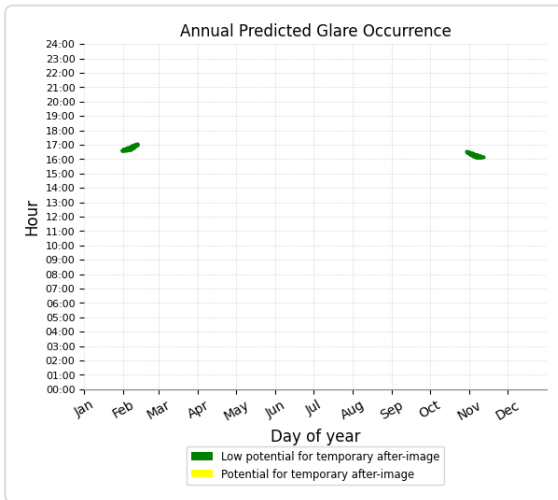
Green glare: 21,929 min.



PV array 5 and Route: Approach_23L

Yellow glare: none

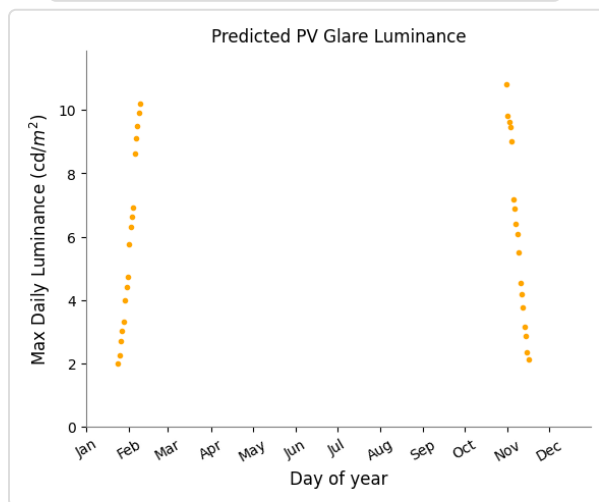
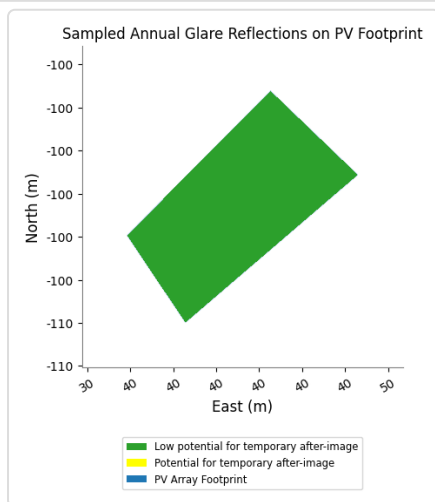
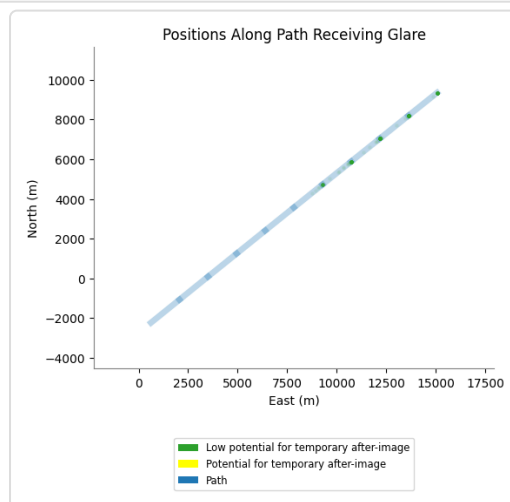
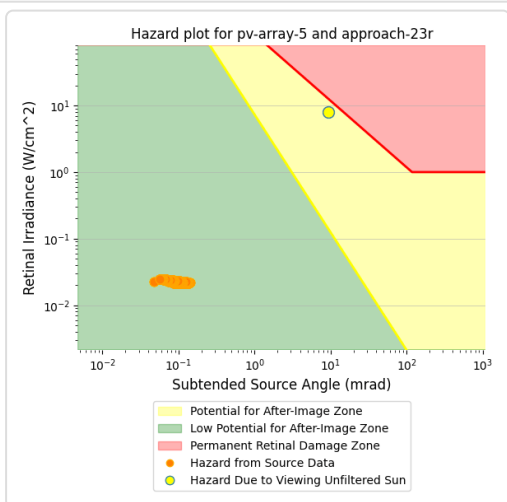
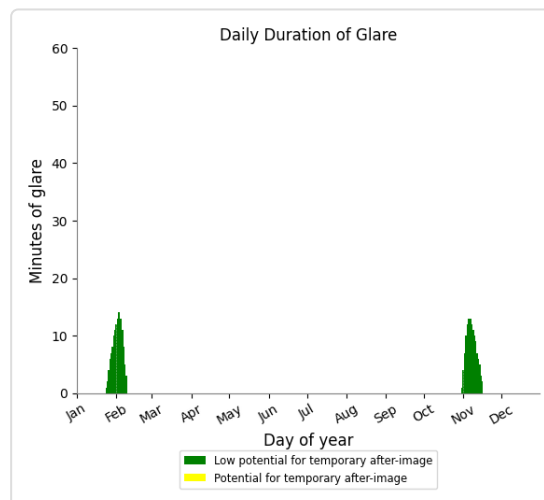
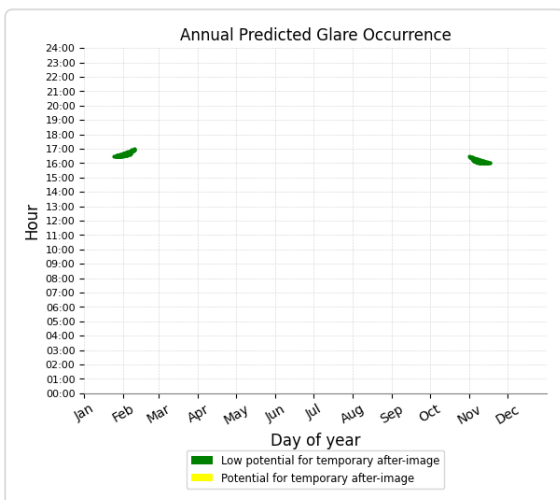
Green glare: 166 min.



PV array 5 and Route: Approach_23R

Yellow glare: none

Green glare: 279 min.



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

No glare found

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

No glare found

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

No glare found

PV array 5 and Route: Approach_05L

No glare found

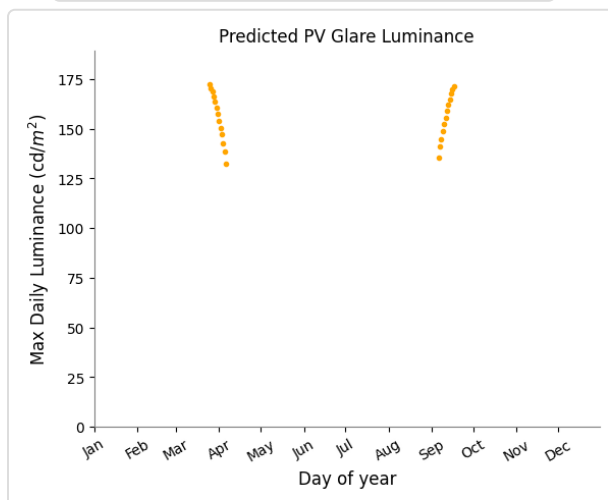
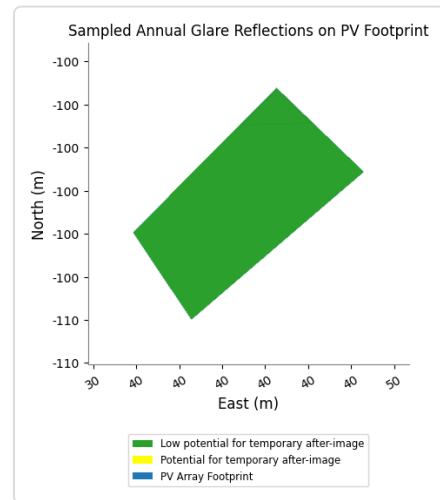
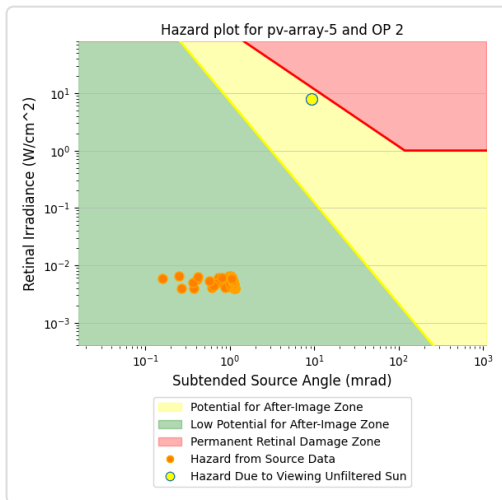
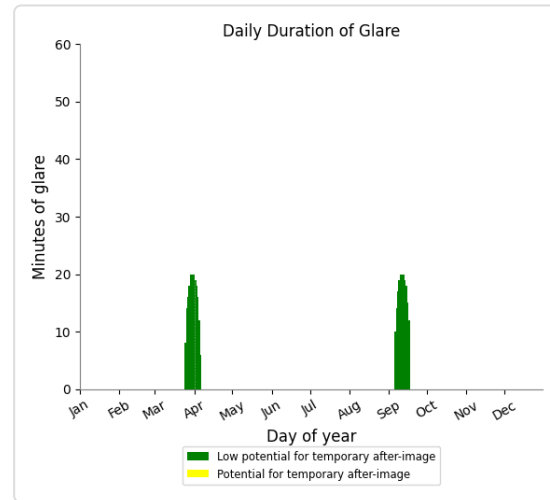
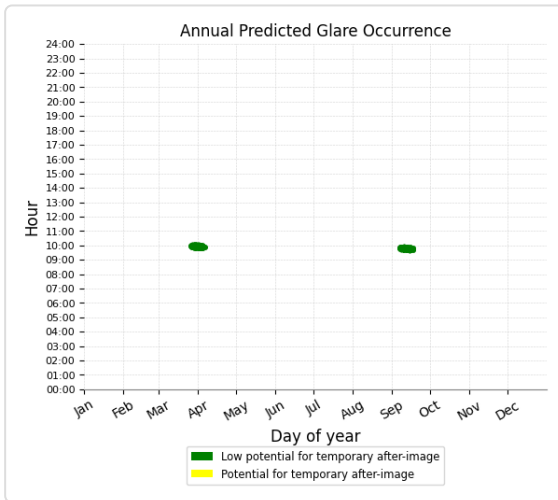
PV array 5 and Route: Approach_05R

No glare found

PV array 5 and OP 2

Yellow glare: none

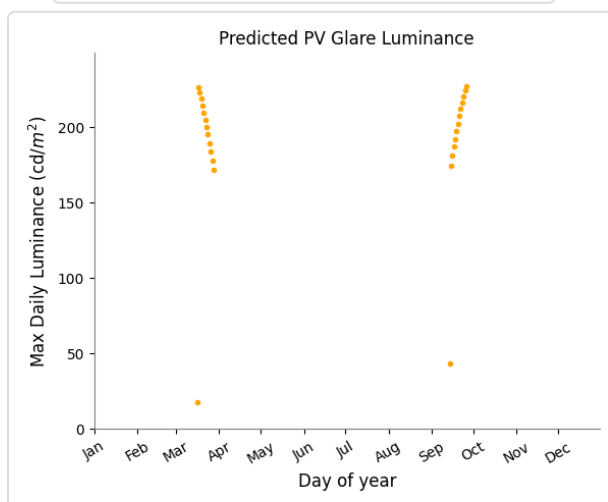
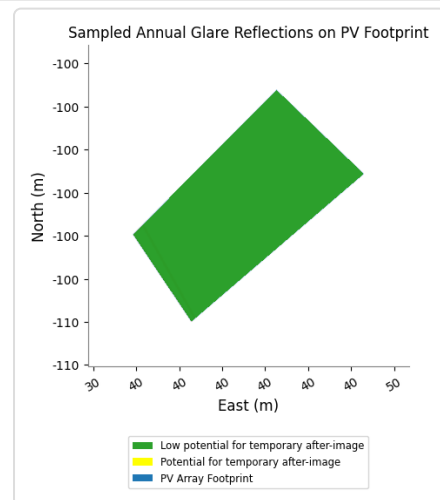
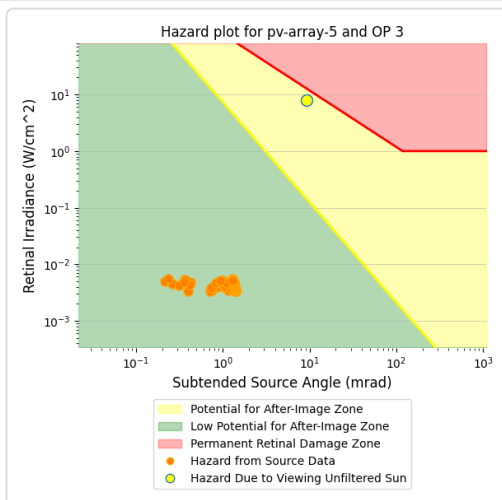
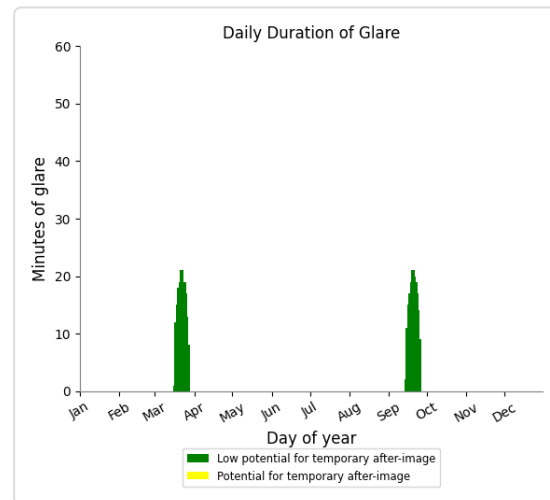
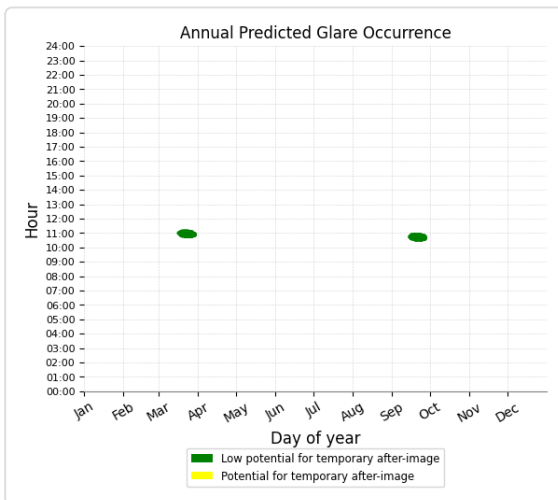
Green glare: 411 min.



PV array 5 and OP 3

Yellow glare: none

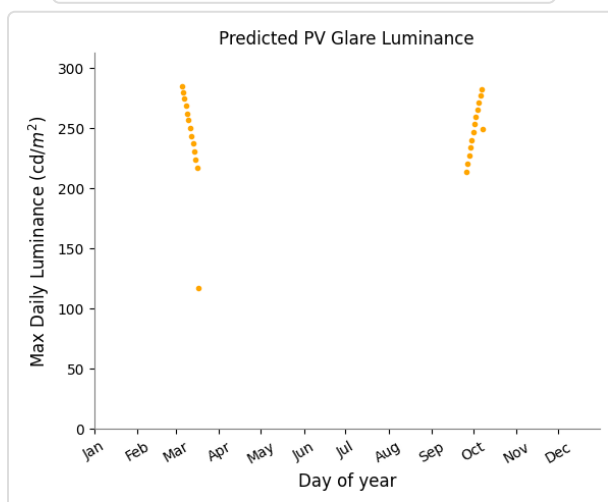
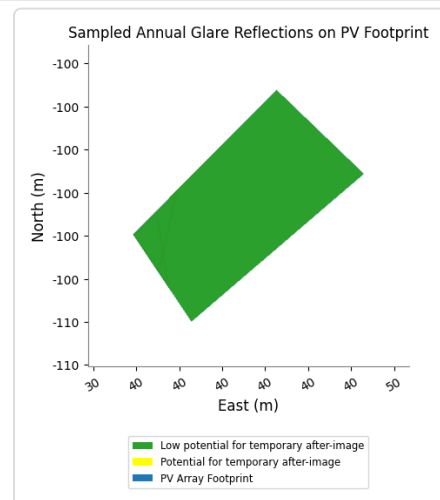
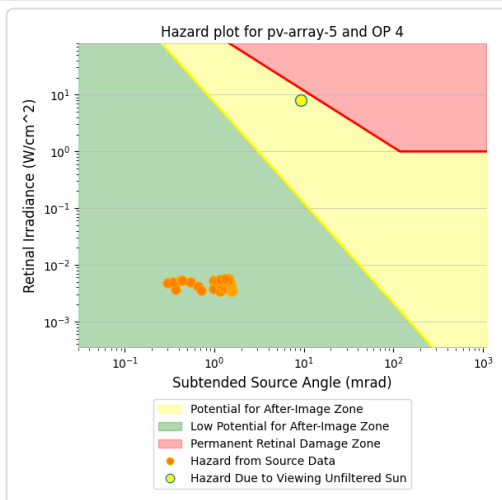
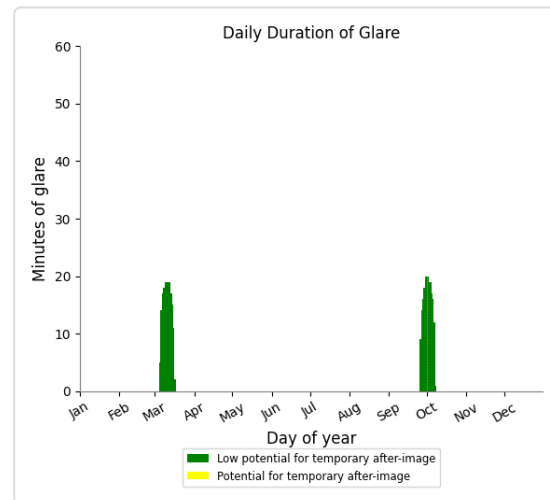
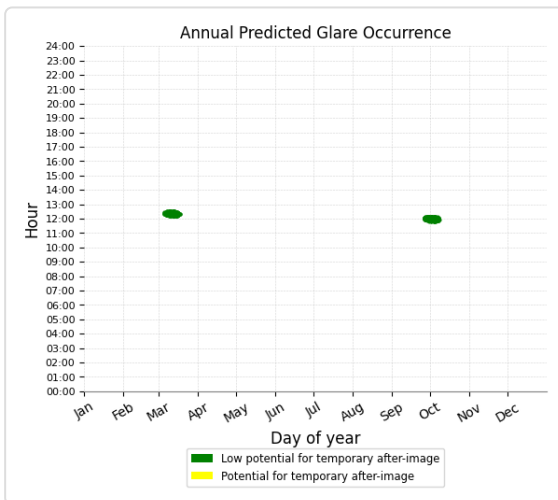
Green glare: 410 min.



PV array 5 and OP 4

Yellow glare: none

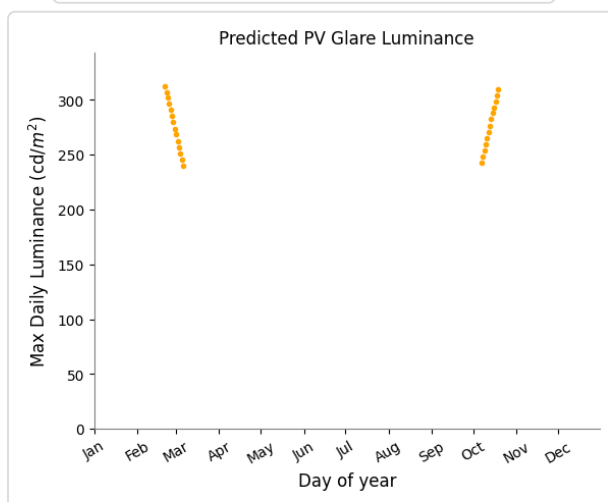
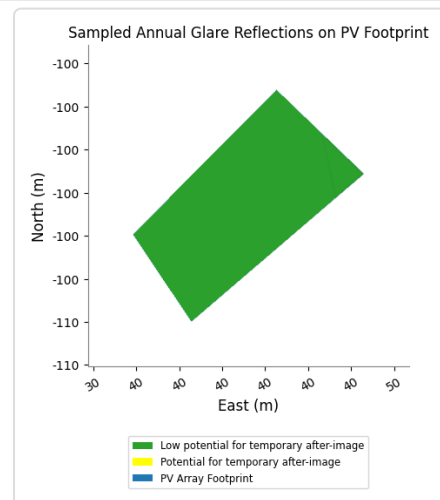
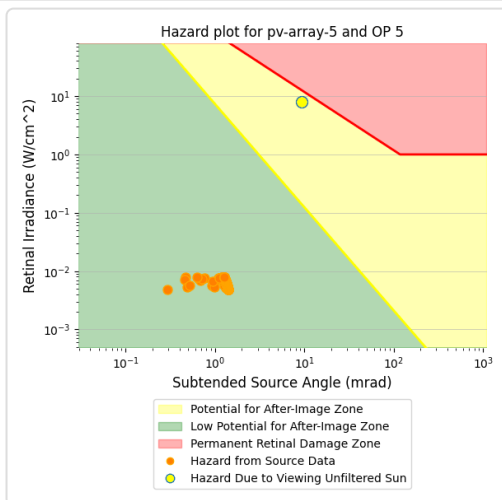
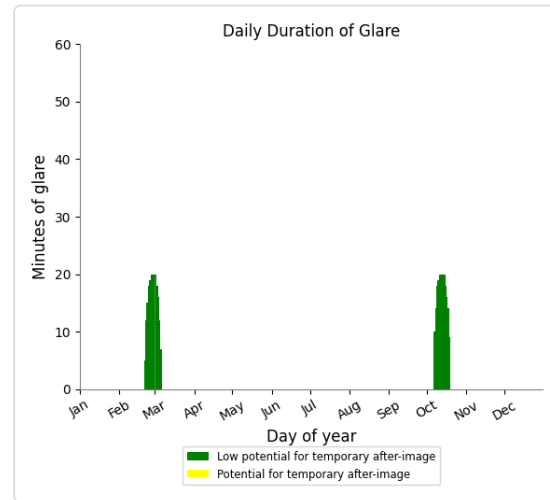
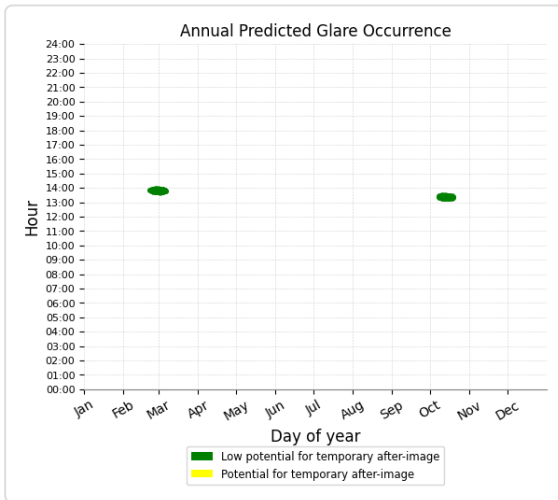
Green glare: 395 min.



PV array 5 and OP 5

Yellow glare: none

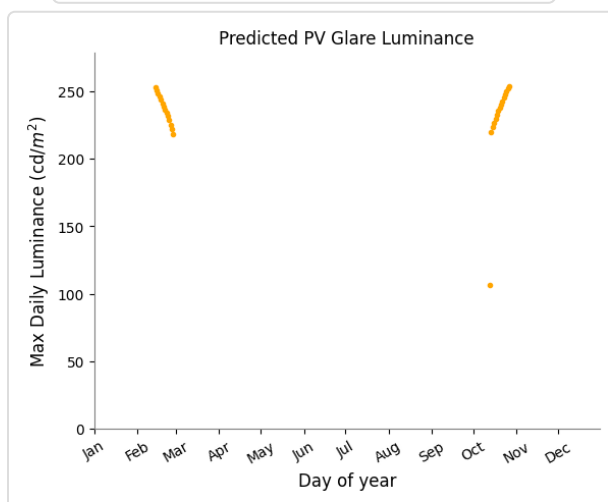
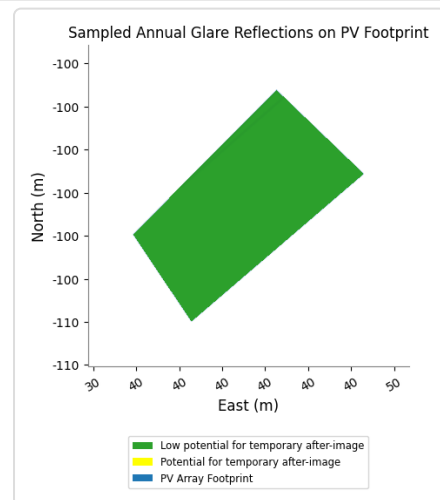
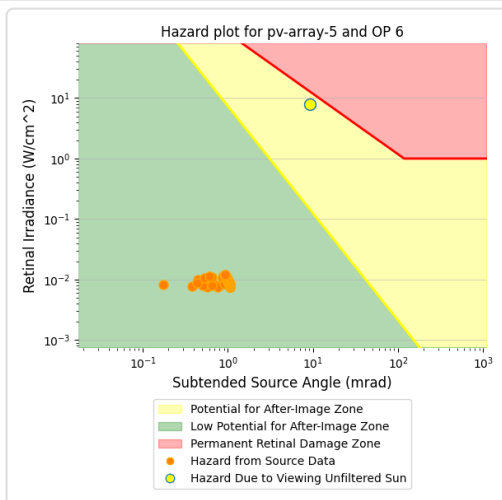
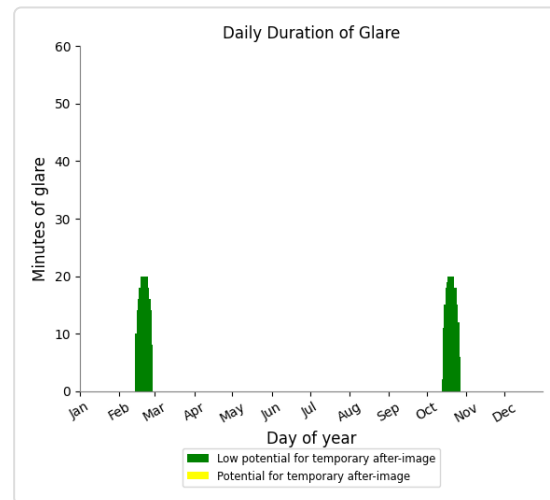
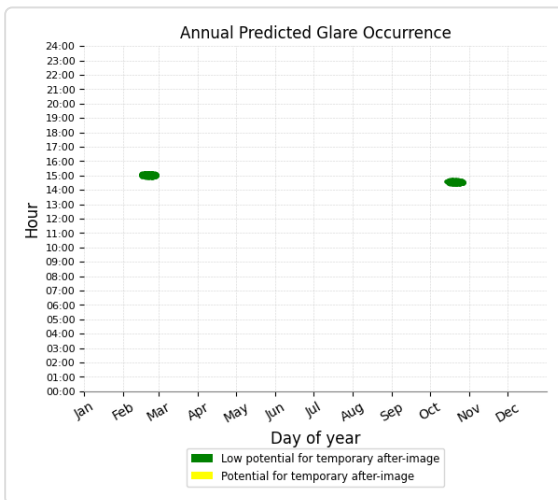
Green glare: 440 min.



PV array 5 and OP 6

Yellow glare: none

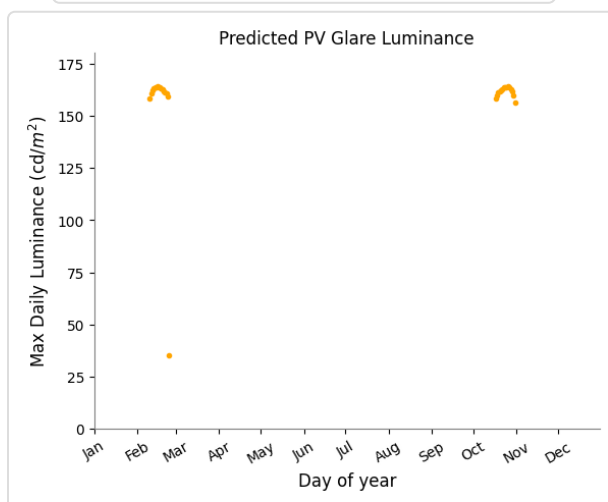
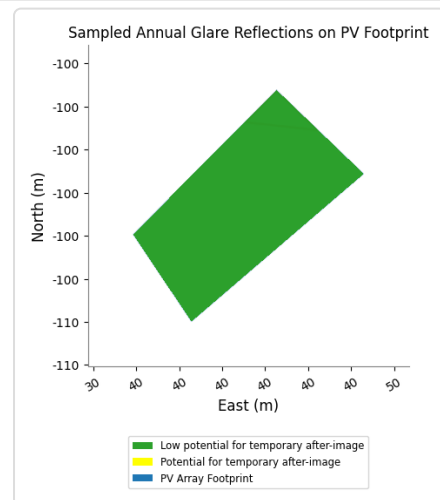
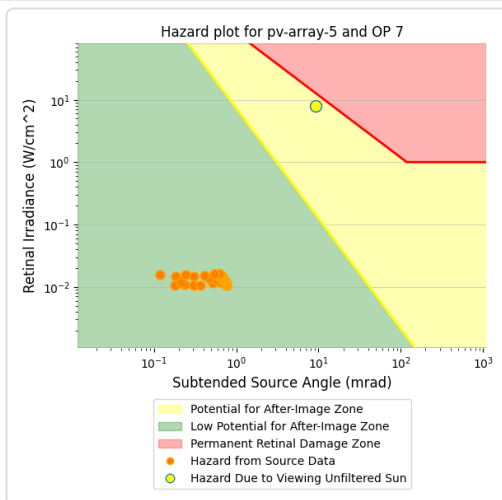
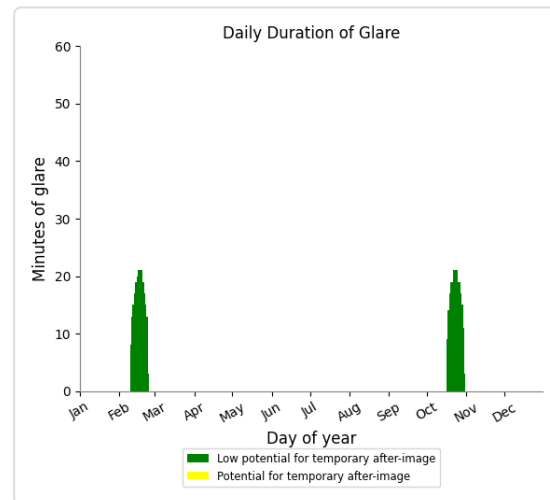
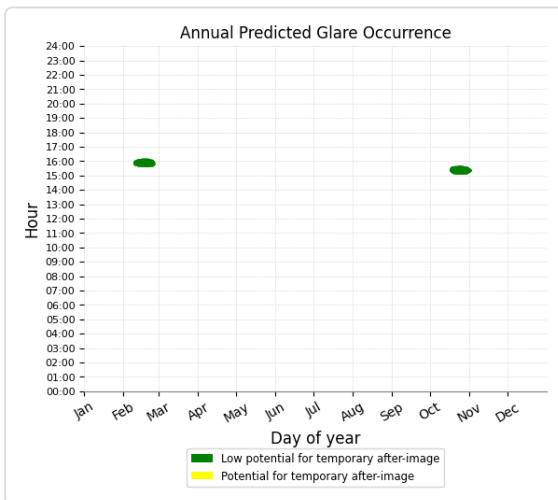
Green glare: 468 min.



PV array 5 and OP 7

Yellow glare: none

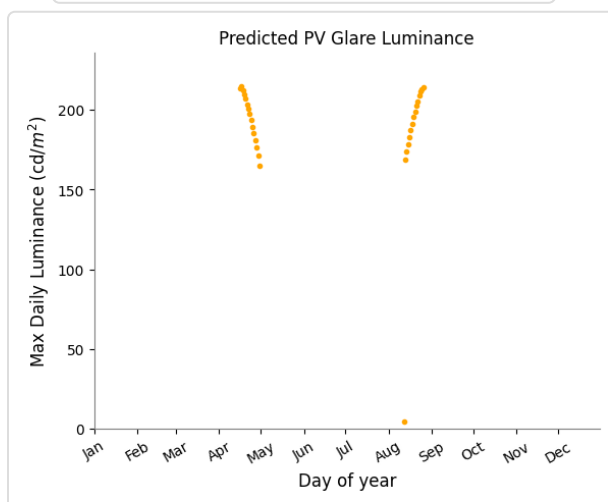
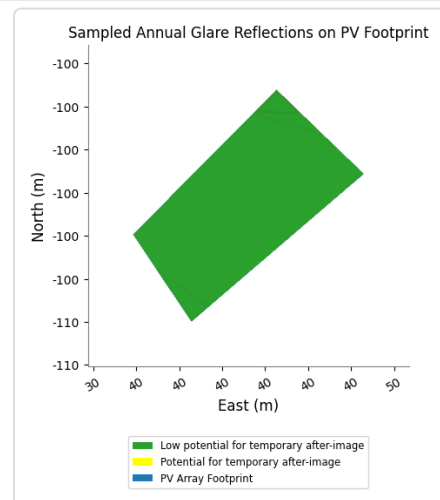
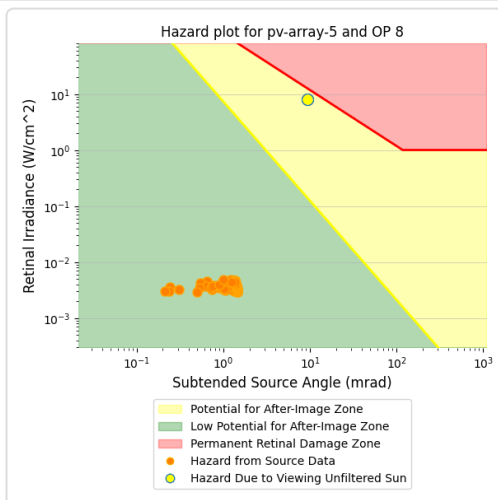
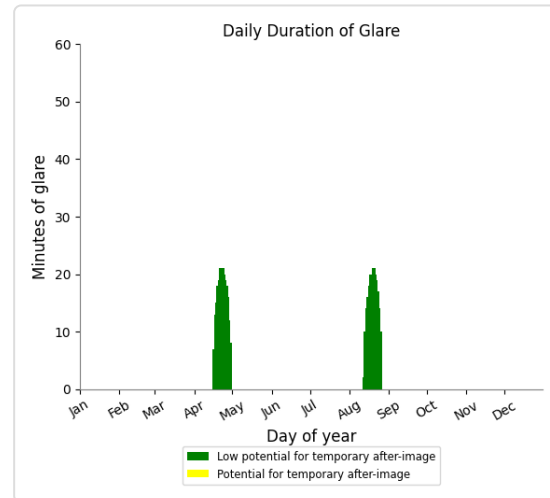
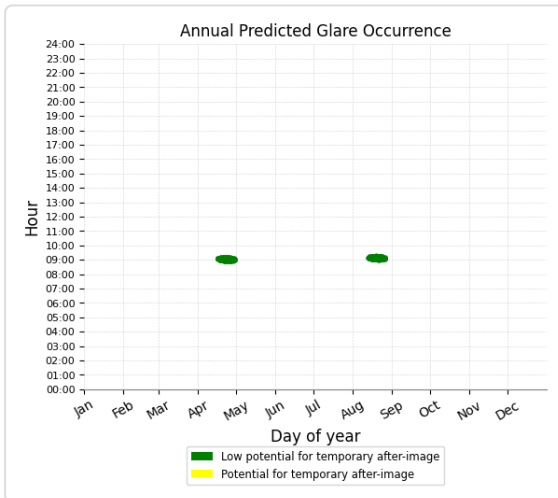
Green glare: 489 min.



PV array 5 and OP 8

Yellow glare: none

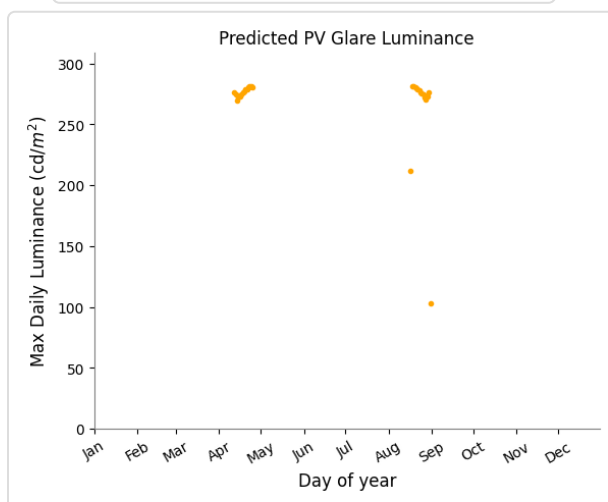
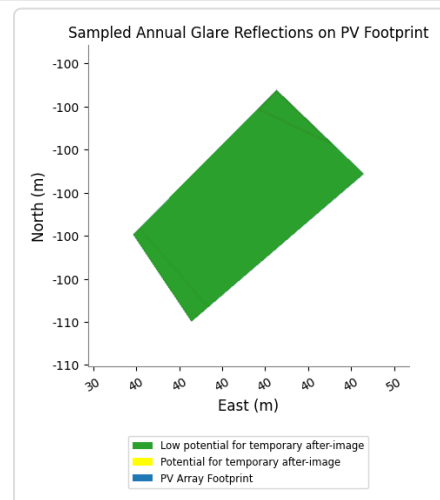
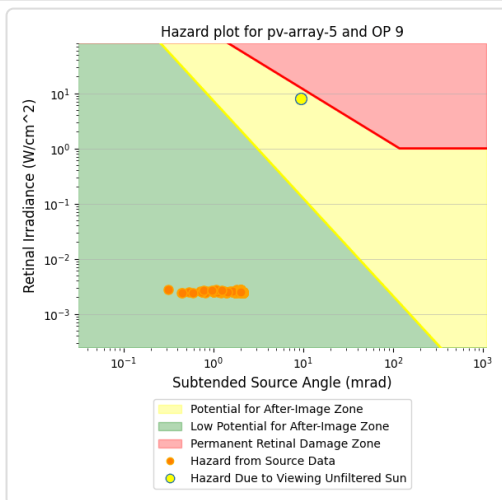
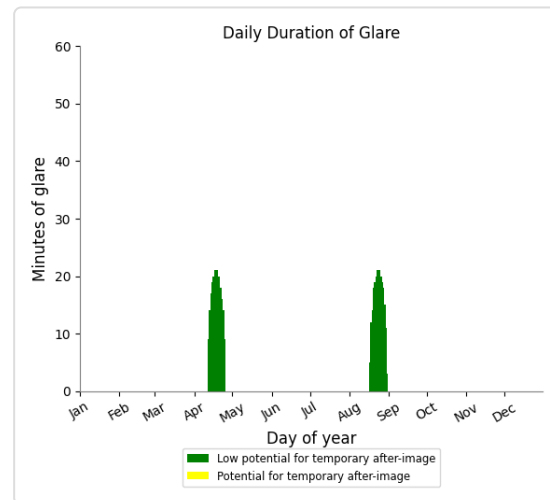
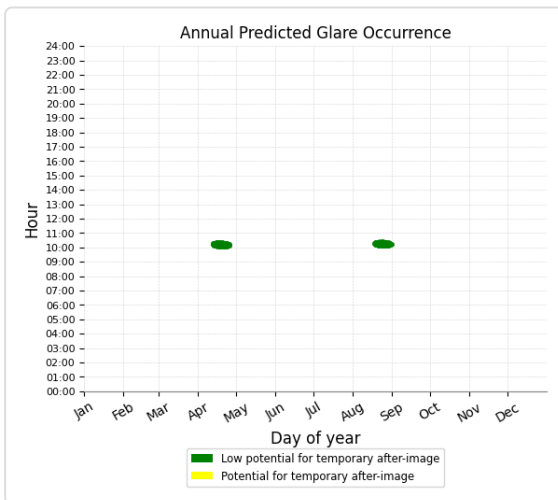
Green glare: 492 min.



PV array 5 and OP 9

Yellow glare: none

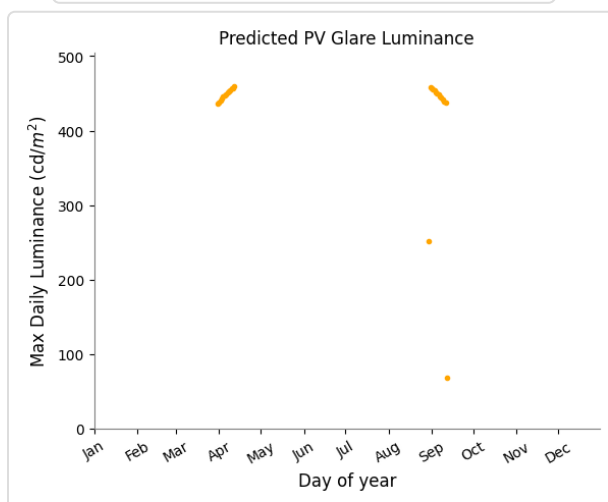
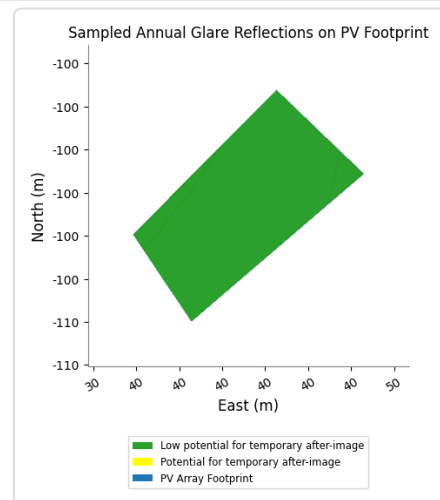
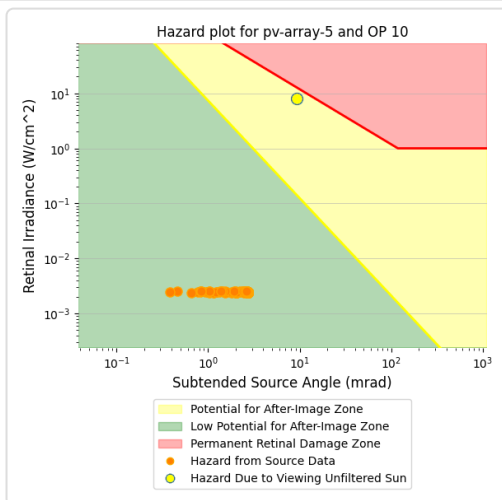
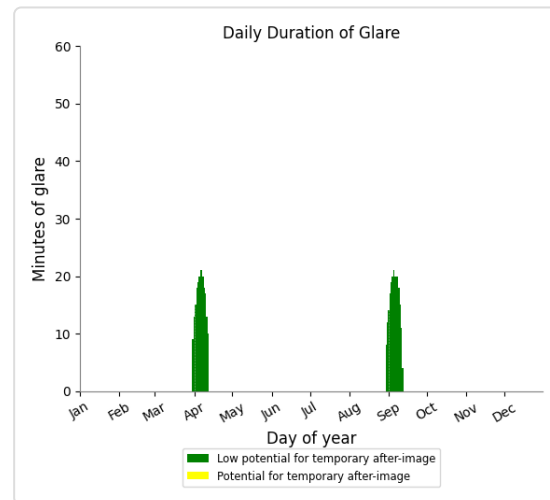
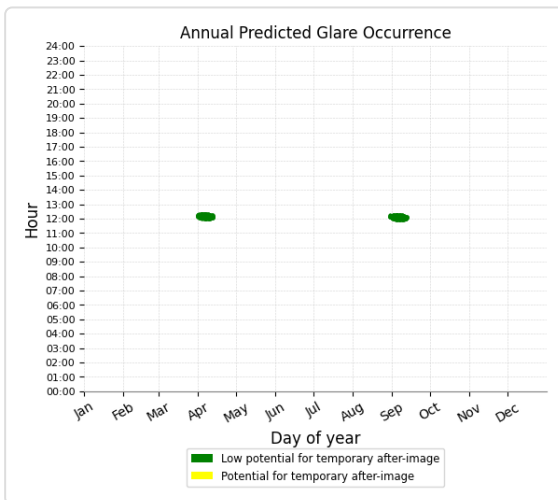
Green glare: 476 min.



PV array 5 and OP 10

Yellow glare: none

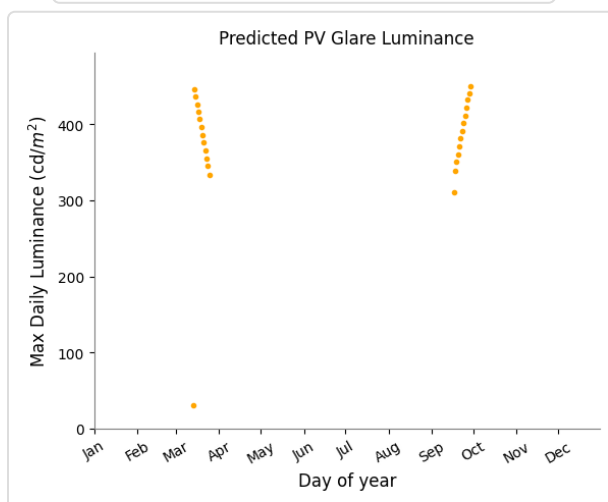
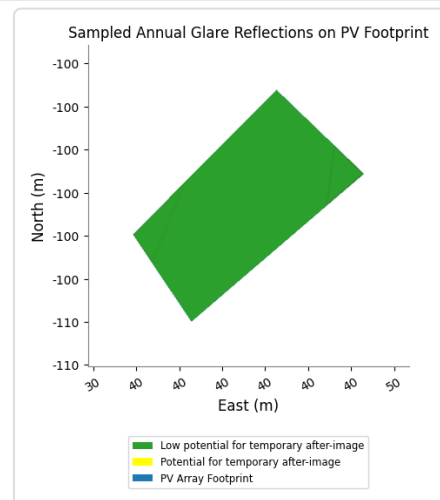
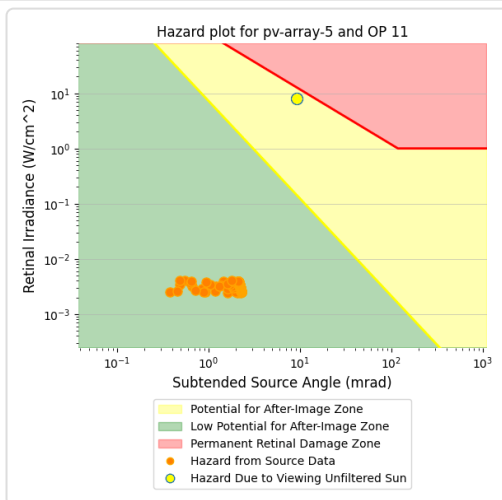
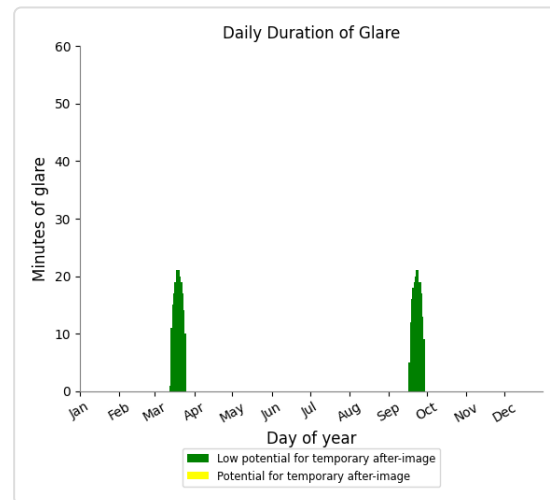
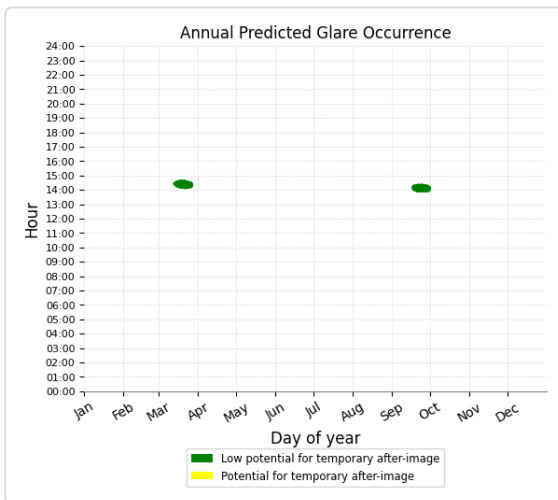
Green glare: 433 min.



PV array 5 and OP 11

Yellow glare: none

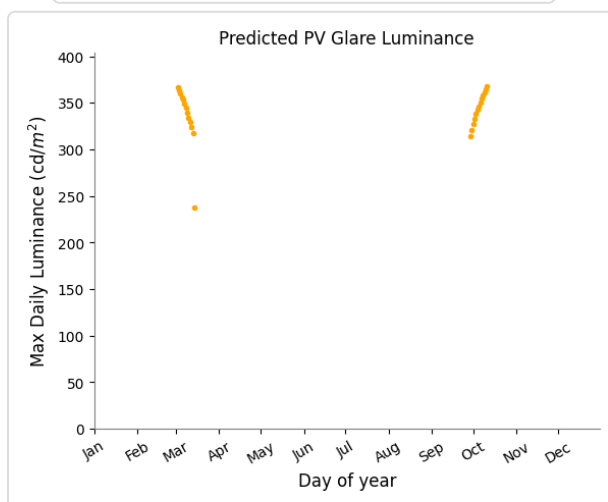
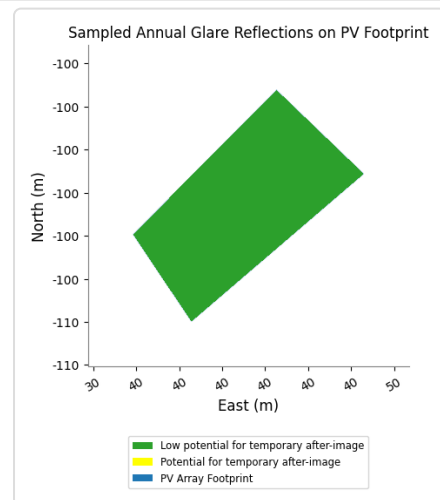
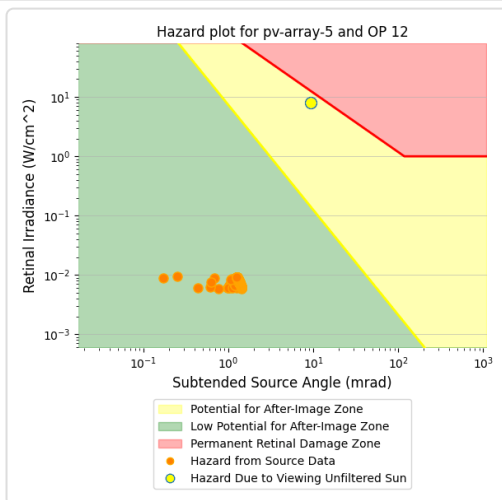
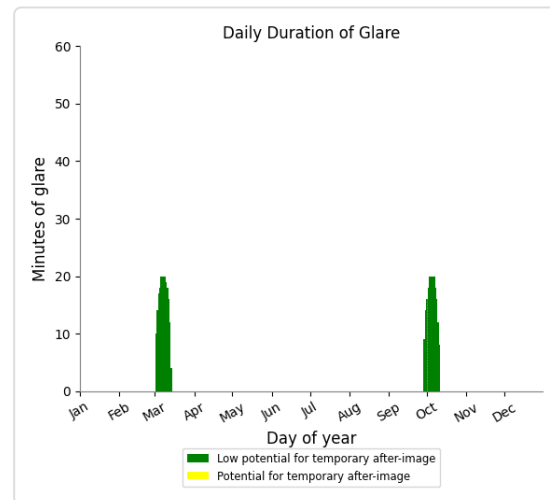
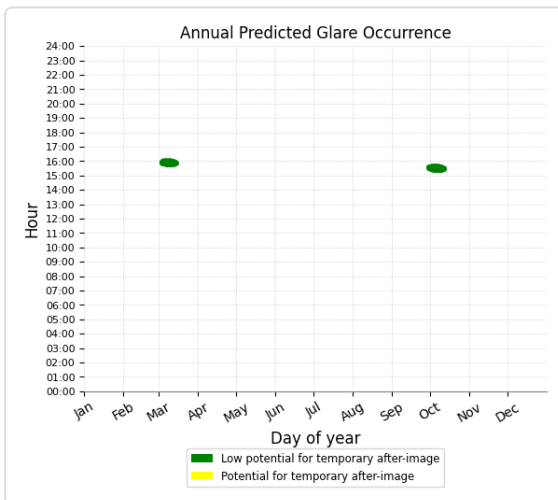
Green glare: 415 min.



PV array 5 and OP 12

Yellow glare: none

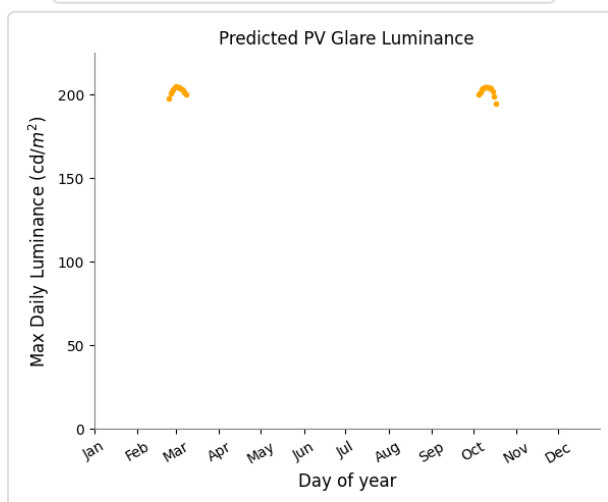
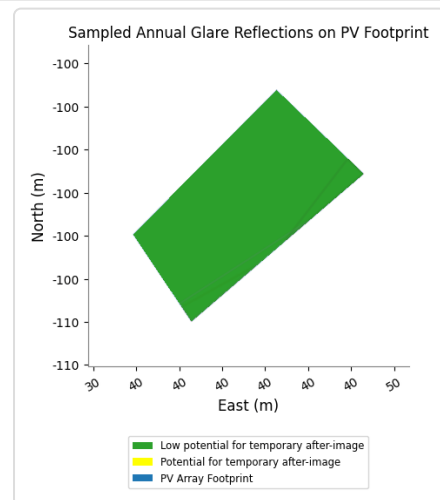
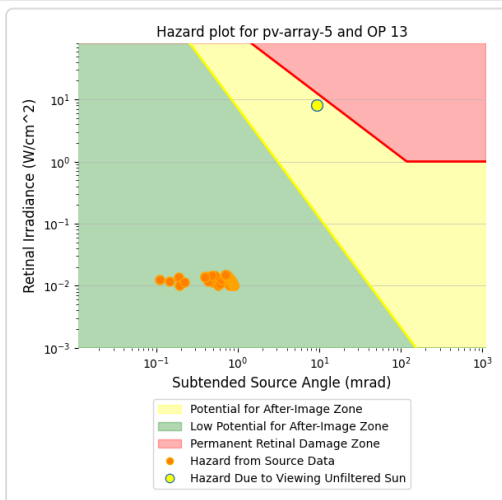
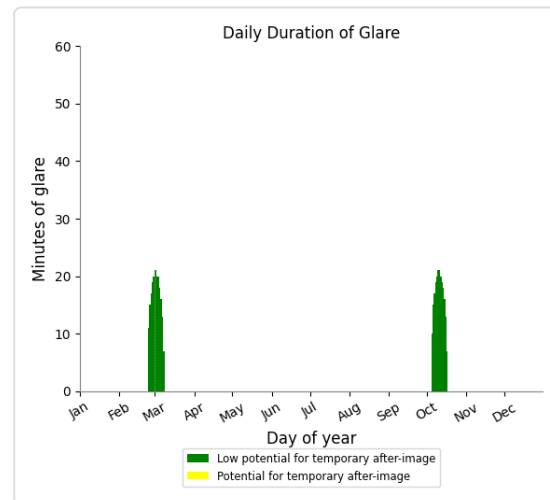
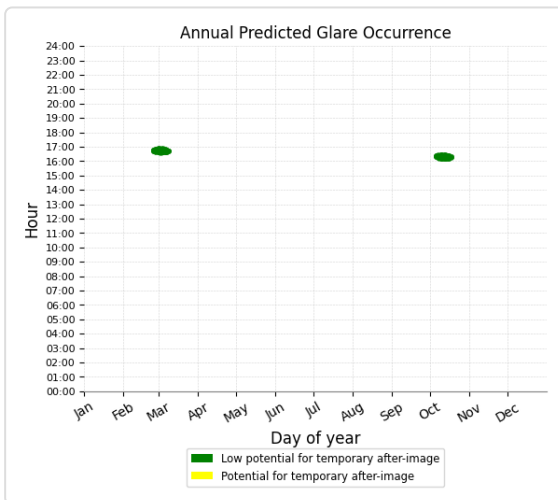
Green glare: 419 min.



PV array 5 and OP 13

Yellow glare: none

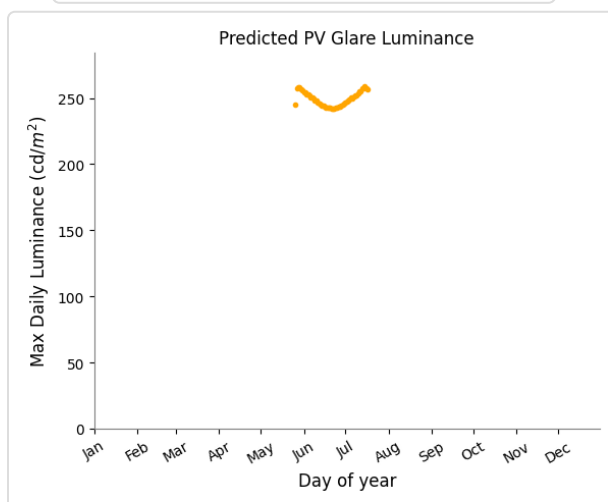
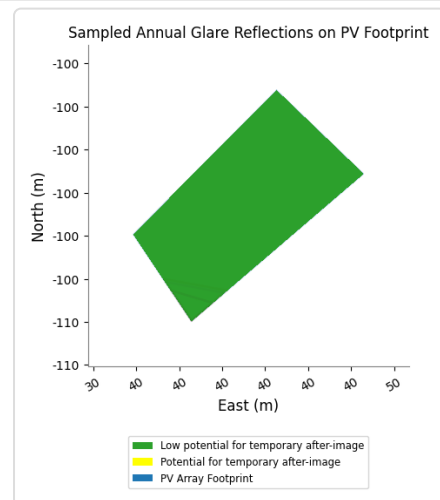
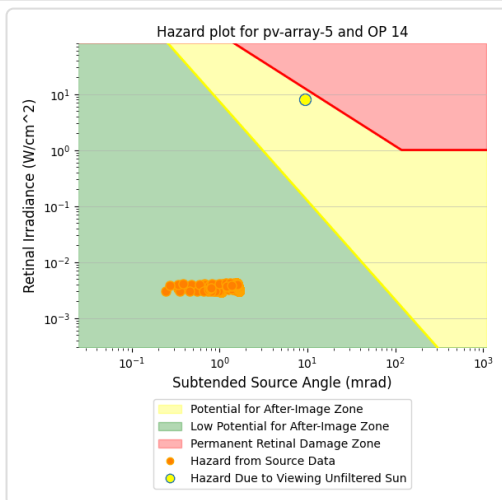
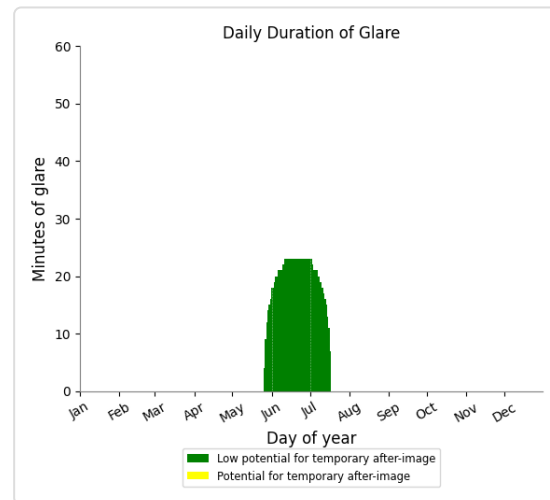
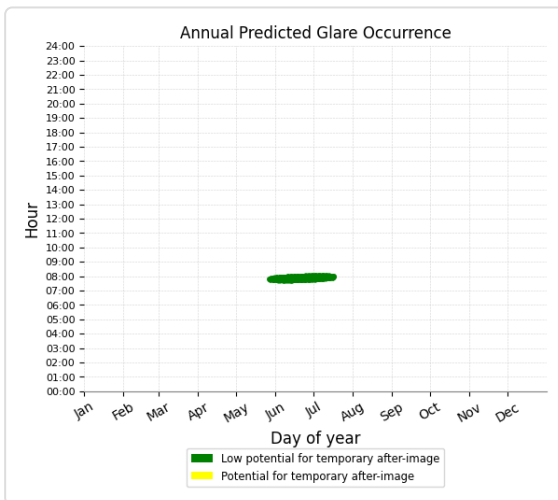
Green glare: 434 min.



PV array 5 and OP 14

Yellow glare: none

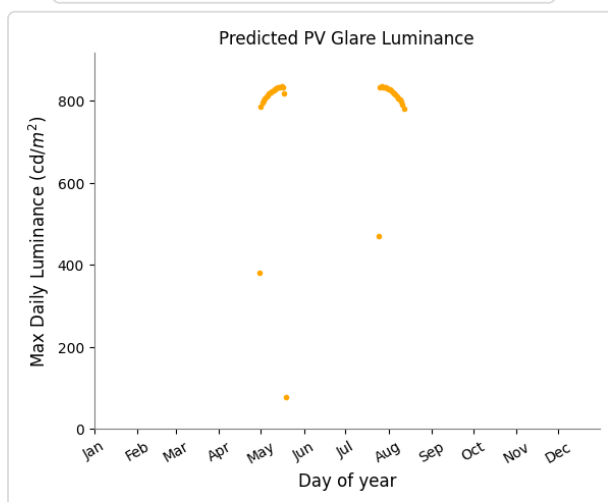
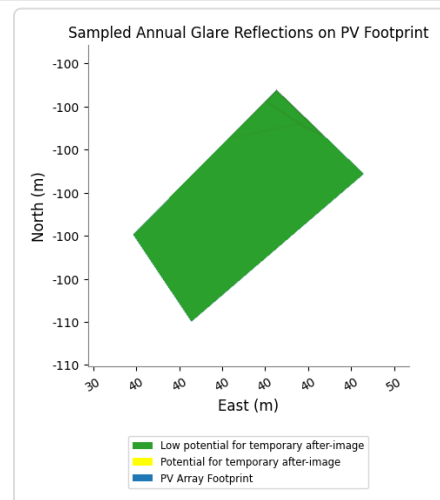
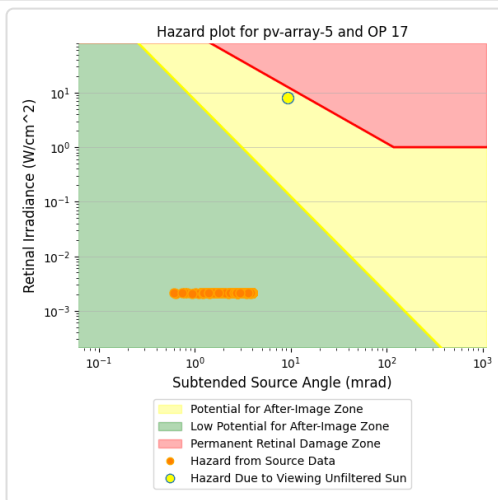
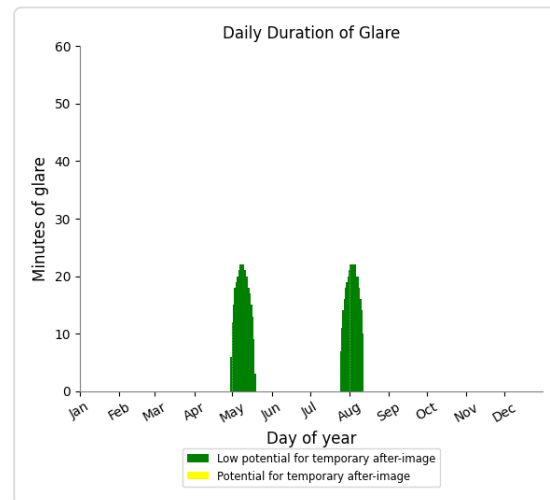
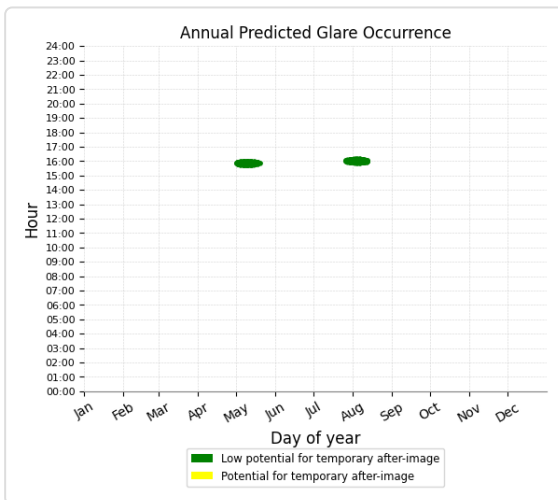
Green glare: 1,038 min.



PV array 5 and OP 17

Yellow glare: none

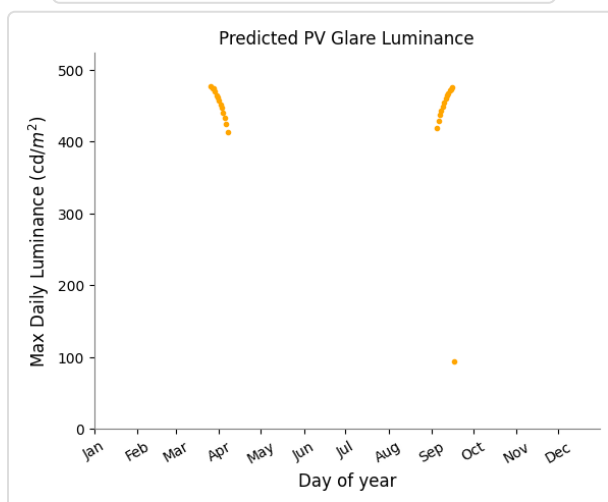
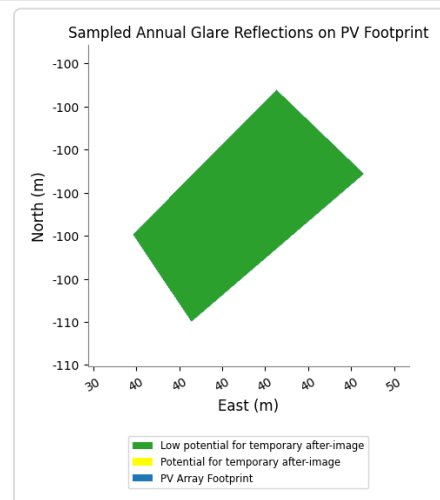
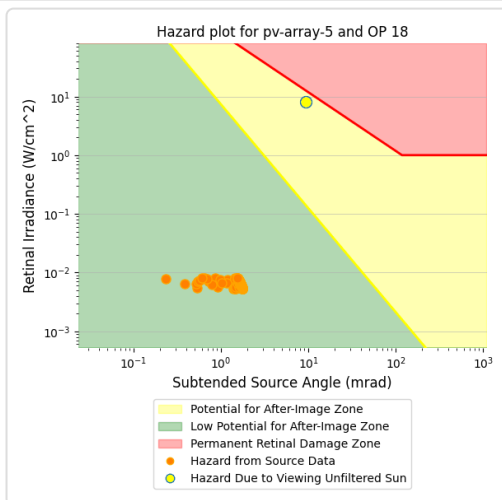
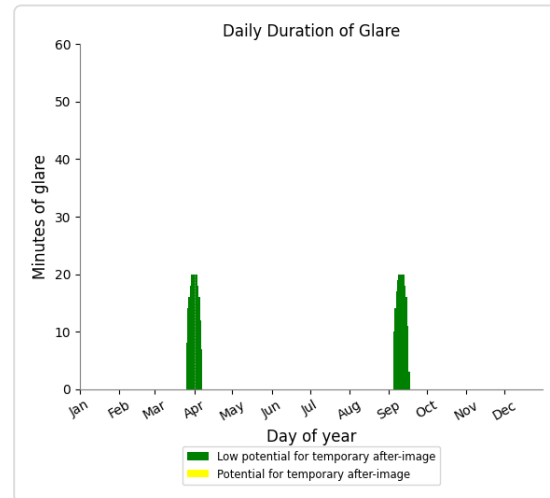
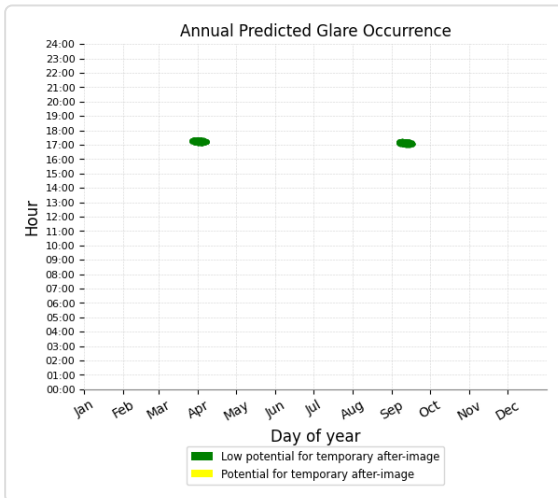
Green glare: 669 min.



PV array 5 and OP 18

Yellow glare: none

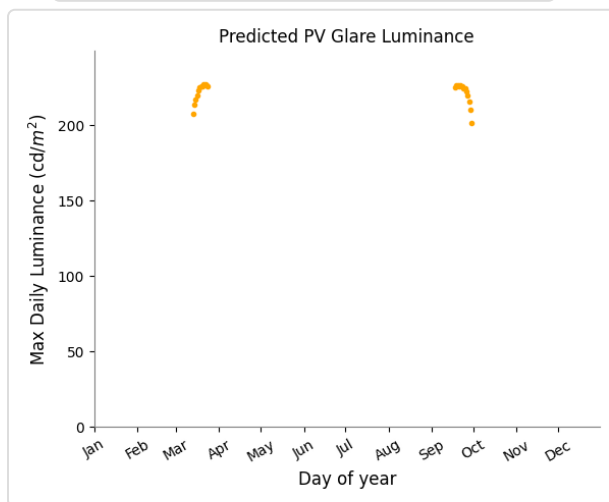
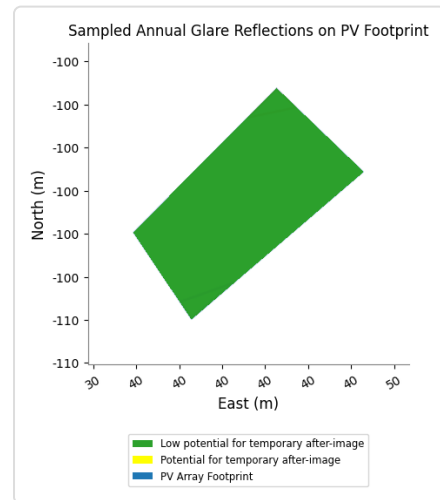
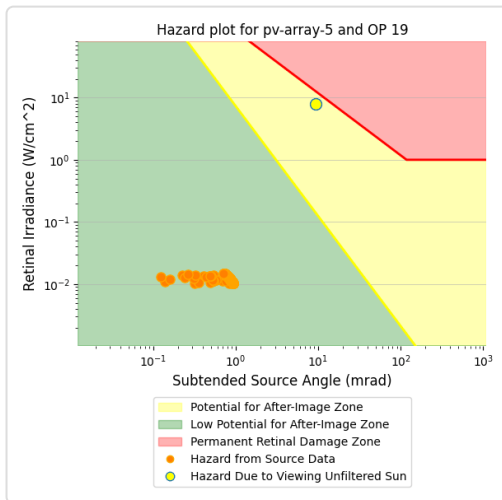
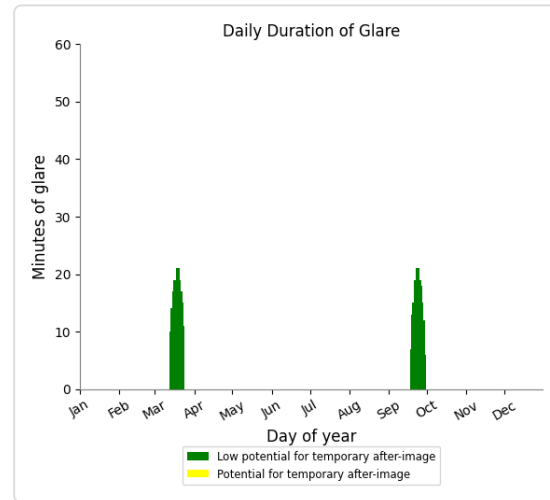
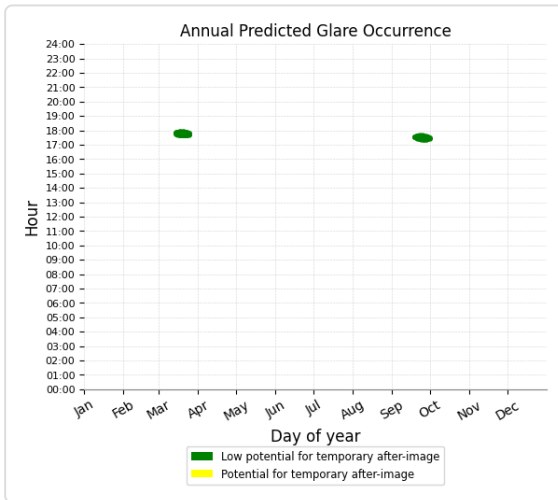
Green glare: 417 min.



PV array 5 and OP 19

Yellow glare: none

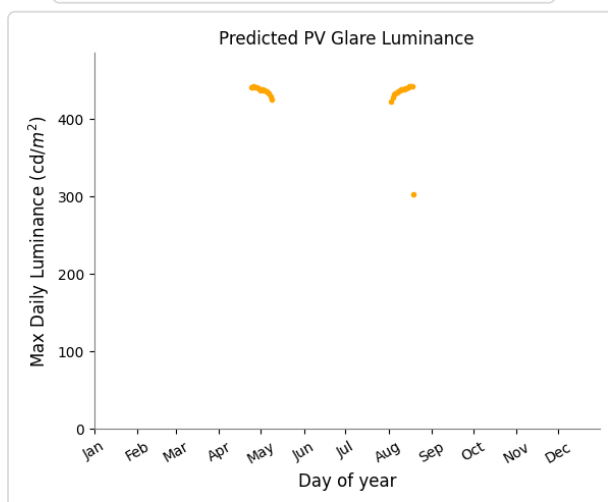
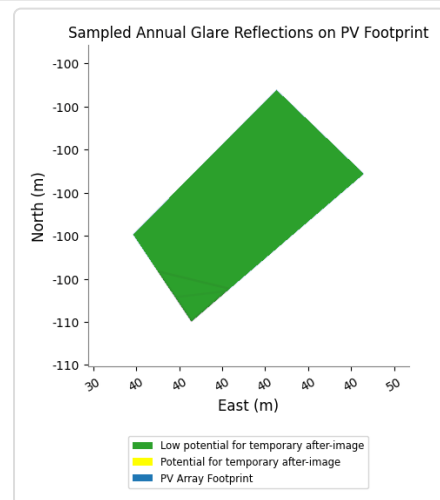
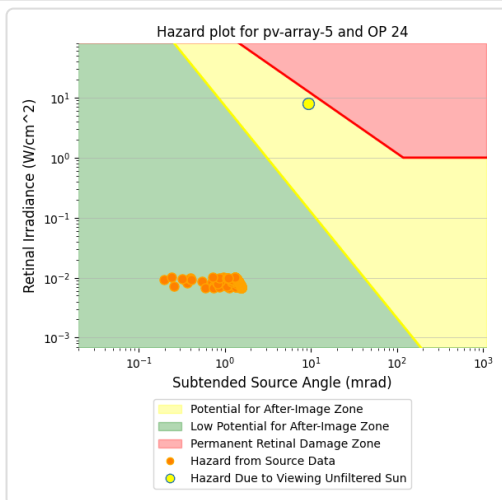
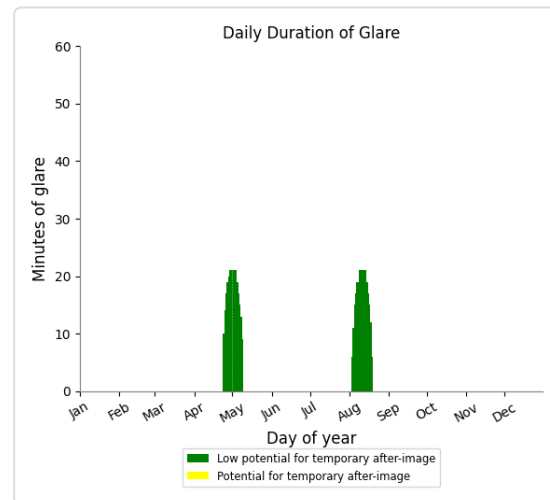
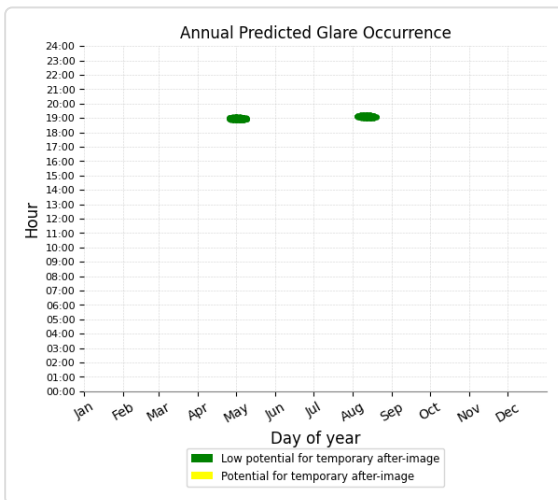
Green glare: 410 min.



PV array 5 and OP 24

Yellow glare: none

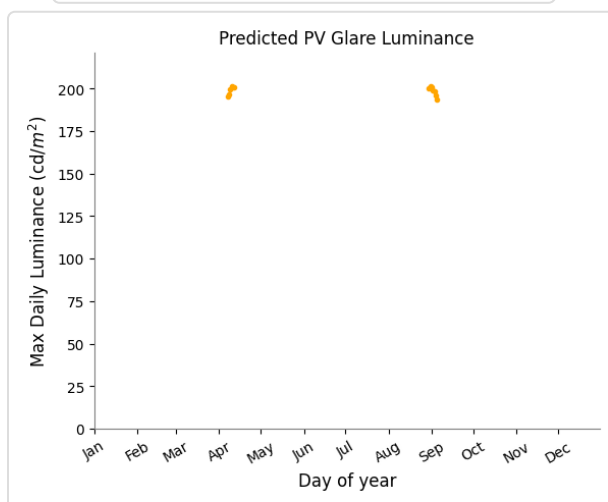
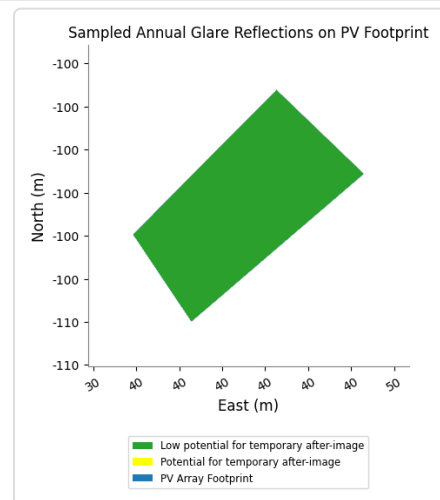
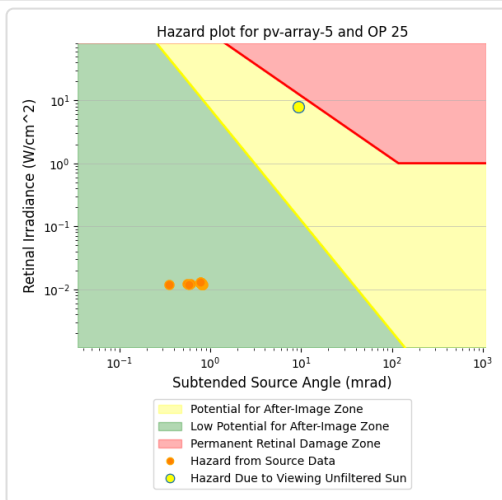
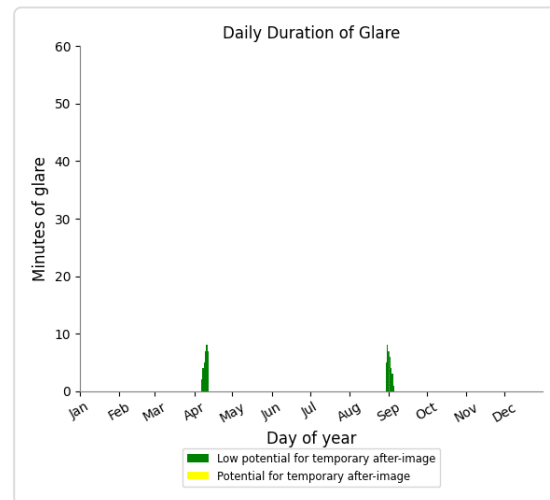
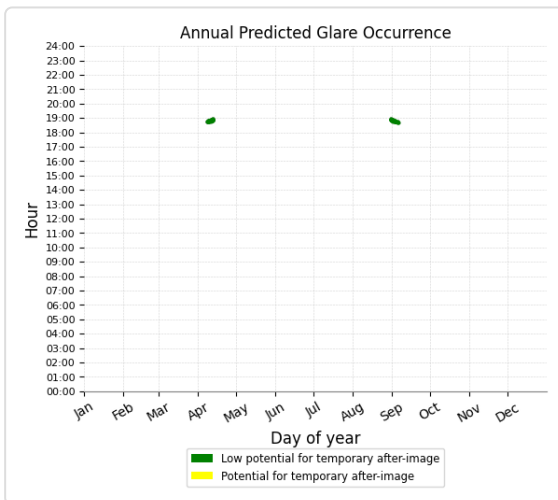
Green glare: 561 min.



PV array 5 and OP 25

Yellow glare: none

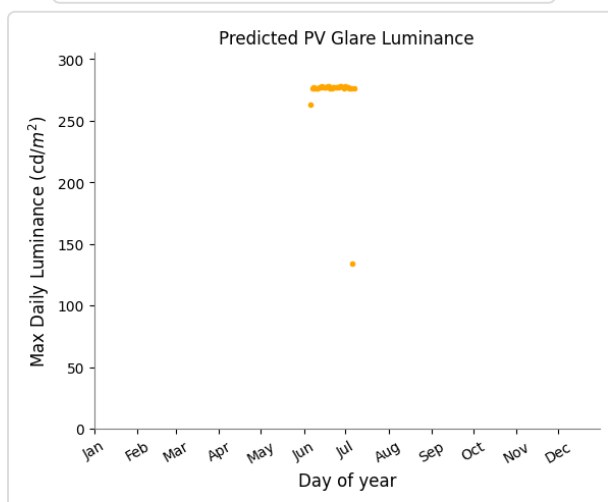
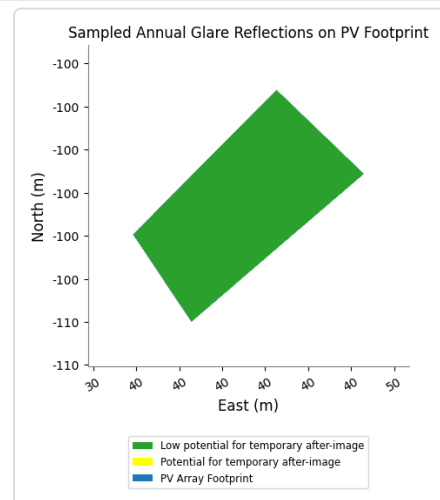
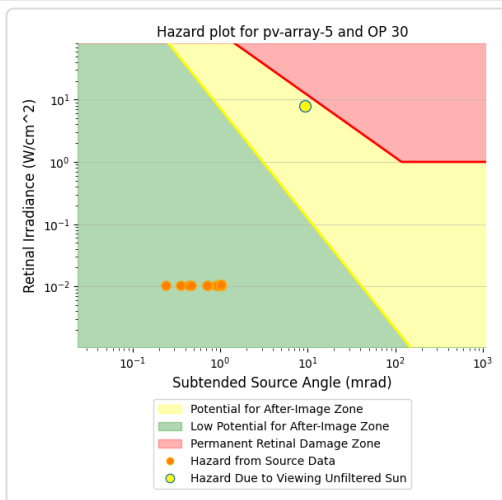
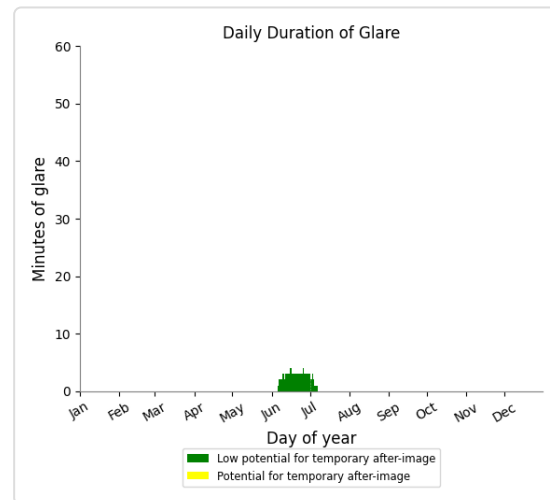
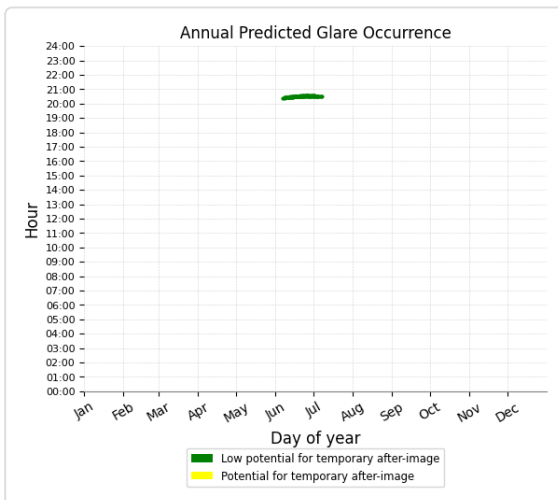
Green glare: 67 min.



PV array 5 and OP 30

Yellow glare: none

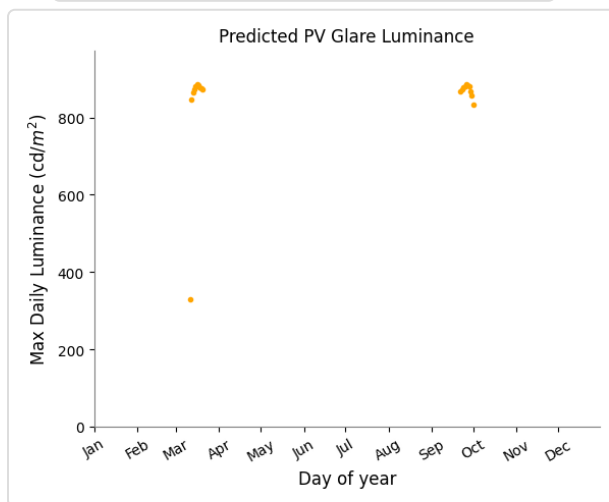
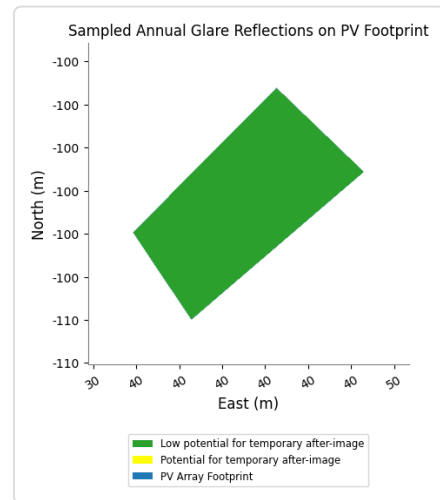
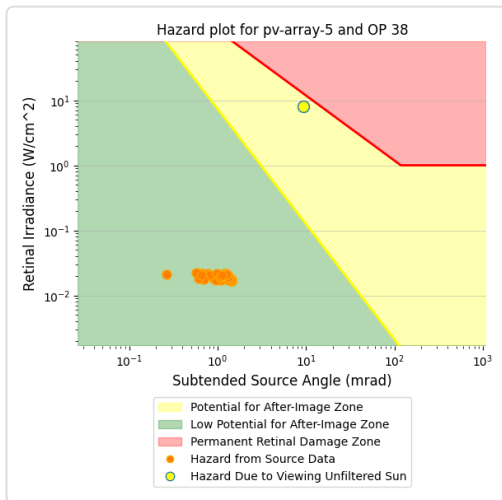
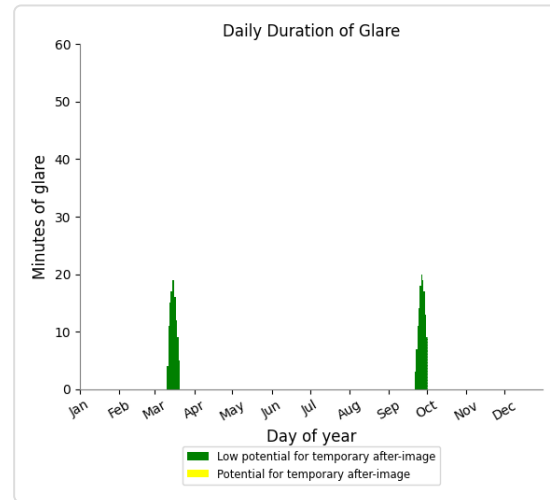
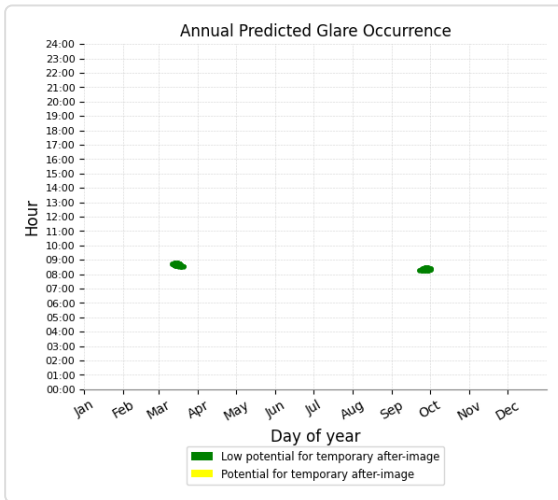
Green glare: 84 min.



PV array 5 and OP 38

Yellow glare: none

Green glare: 258 min.



PV array 5 and 1-ATCT

No glare found

PV array 5 and OP 15

No glare found

PV array 5 and OP 16

No glare found

PV array 5 and OP 20

No glare found

PV array 5 and OP 21

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 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 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 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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