



Appendix 7H: Rail Receptor Glare (10 Deg)





Kingston Solar Farm

Kingston Solar Farm Rail 10Deg

Created Aug. 11, 2021
 Updated Aug. 11, 2021
 Time-step 1 minute
 Timezone offset UTC0
 Site ID 57208.10138

Project type Advanced
 Project status: active
 Category 10 MW to 100 MW



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

Analysis Methodologies:

- Observation point: **Version 2**
- 2-Mile Flight Path: **Version 2**
- Route: **Version 2**

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

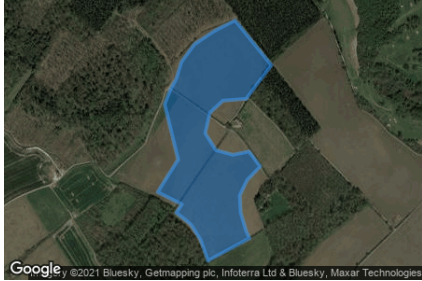
PV Name	Tilt deg	Orientation deg	"Green" Glare min	"Yellow" Glare min	Energy Produced kWh
Central PV Array	10.0	180.0	5,313	9,749	-
Eastern PV Array	10.0	180.0	1,500	5,828	-
Southern PV Array	10.0	180.0	4,008	8,964	-
Western PV Array	10.0	180.0	6,162	4,657	-

Component Data

PV Array(s)

Total PV footprint area: 652,007 m²

Name: Central PV Array
Axis tracking: Fixed (no rotation)
Tilt: 10.0 deg
Orientation: 180.0 deg
Footprint area: 132,824 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.848987	-1.201839	96.58	2.80	99.38
2	52.847743	-1.200166	96.44	2.80	99.24
3	52.846810	-1.201324	93.14	2.80	95.94
4	52.846758	-1.202397	91.84	2.80	94.64
5	52.846421	-1.202998	90.05	2.80	92.85
6	52.845851	-1.203213	89.14	2.80	91.94
7	52.845385	-1.202719	89.74	2.80	92.54
8	52.845255	-1.201947	90.82	2.80	93.62
9	52.845346	-1.201196	92.07	2.80	94.87
10	52.844931	-1.200681	91.18	2.80	93.98
11	52.844555	-1.201282	89.97	2.80	92.77
12	52.844127	-1.201625	88.30	2.80	91.10
13	52.843648	-1.201582	86.48	2.80	89.28
14	52.843129	-1.201324	84.47	2.80	87.27
15	52.842935	-1.201174	82.65	2.80	85.45
16	52.842313	-1.203084	80.74	2.80	83.54
17	52.842896	-1.203427	84.27	2.80	87.07
18	52.843324	-1.203878	87.66	2.80	90.46
19	52.843648	-1.204543	86.76	2.80	89.56
20	52.843881	-1.204286	86.82	2.80	89.62
21	52.844218	-1.205401	81.43	2.80	84.23
22	52.845125	-1.204457	85.10	2.80	87.90
23	52.846655	-1.205080	82.01	2.80	84.81
24	52.847056	-1.204822	85.02	2.80	87.82
25	52.847367	-1.204543	86.44	2.80	89.24
26	52.847834	-1.204307	87.45	2.80	90.25
27	52.848326	-1.203706	91.82	2.80	94.62
28	52.848702	-1.202762	92.71	2.80	95.51

Name: Eastern PV Array
Axis tracking: Fixed (no rotation)
Tilt: 10.0 deg
Orientation: 180.0 deg
Footprint area: 105,300 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



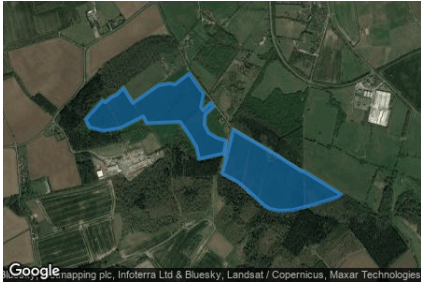
Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.848995	-1.197688	96.44	2.80	99.24
2	52.848360	-1.197387	95.39	2.80	98.19
3	52.847479	-1.197044	94.28	2.80	97.08
4	52.846818	-1.196615	93.25	2.80	96.05
5	52.846325	-1.196164	92.60	2.80	95.40
6	52.846196	-1.195714	92.11	2.80	94.91
7	52.845807	-1.194877	92.17	2.80	94.97
8	52.845379	-1.194061	92.96	2.80	95.76
9	52.844991	-1.192388	93.06	2.80	95.86
10	52.844991	-1.191959	93.08	2.80	95.88
11	52.844330	-1.192688	93.00	2.80	95.80
12	52.843889	-1.193461	93.10	2.80	95.90
13	52.843254	-1.194469	92.64	2.80	95.44
14	52.845613	-1.198203	94.92	2.80	97.72
15	52.846001	-1.197580	95.01	2.80	97.81
16	52.847777	-1.199941	96.64	2.80	99.44

Name: Southern PV Array
Axis tracking: Fixed (no rotation)
Tilt: 10.0 deg
Orientation: 180.0 deg
Footprint area: 63,120 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude	Longitude	Ground elevation	Height above ground	Total elevation
	deg	deg	m	m	m
1	52.843772	-1.195693	91.46	2.80	94.26
2	52.843111	-1.194663	93.99	2.80	96.79
3	52.842683	-1.195564	92.28	2.80	95.08
4	52.842152	-1.196315	91.71	2.80	94.51
5	52.841426	-1.196980	91.38	2.80	94.18
6	52.840713	-1.197624	90.47	2.80	93.27
7	52.840441	-1.197838	90.31	2.80	93.11
8	52.840182	-1.199212	88.30	2.80	91.10
9	52.840013	-1.199641	87.99	2.80	90.79
10	52.839741	-1.199791	87.54	2.80	90.34
11	52.839443	-1.199984	88.09	2.80	90.89
12	52.840052	-1.201014	83.30	2.80	86.10
13	52.840480	-1.200993	78.20	2.80	81.00
14	52.840648	-1.200735	79.17	2.80	81.97
15	52.840804	-1.200134	82.43	2.80	85.23
16	52.841024	-1.199576	84.40	2.80	87.20
17	52.841452	-1.199104	85.12	2.80	87.92
18	52.841996	-1.198890	83.52	2.80	86.32
19	52.842359	-1.198418	85.08	2.80	87.88
20	52.842657	-1.197881	87.03	2.80	89.83

Name: Western PV Array
Axis tracking: Fixed (no rotation)
Tilt: 10.0 deg
Orientation: 180.0 deg
Footprint area: 350,763 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.857326	-1.226006	85.78	2.80	88.58
2	52.856276	-1.227551	83.98	2.80	86.78
3	52.855836	-1.227186	83.12	2.80	85.92
4	52.855641	-1.225941	78.84	2.80	81.64
5	52.855797	-1.224396	78.16	2.80	80.96
6	52.856445	-1.222251	83.48	2.80	86.28
7	52.856069	-1.221907	79.29	2.80	82.09
8	52.856147	-1.218860	82.71	2.80	85.51
9	52.855343	-1.217938	79.35	2.80	82.15
10	52.854760	-1.217358	81.43	2.80	84.23
11	52.854086	-1.217122	83.25	2.80	86.05
12	52.854281	-1.215706	85.51	2.80	88.31
13	52.854384	-1.214891	86.05	2.80	88.85
14	52.854247	-1.214556	86.06	2.80	88.86
15	52.853288	-1.215007	86.17	2.80	88.97
16	52.852861	-1.213676	85.74	2.80	88.54
17	52.852679	-1.213247	86.03	2.80	88.83
18	52.852096	-1.212153	85.92	2.80	88.72
19	52.851500	-1.211080	86.35	2.80	89.15
20	52.851332	-1.210608	86.08	2.80	88.88
21	52.851228	-1.209750	86.36	2.80	89.16
22	52.851254	-1.208591	87.09	2.80	89.89
23	52.851500	-1.206917	88.98	2.80	91.78
24	52.851993	-1.204342	93.00	2.80	95.80
25	52.852135	-1.204042	94.13	2.80	96.93
26	52.853392	-1.207411	90.98	2.80	93.78
27	52.853431	-1.207754	90.78	2.80	93.58
28	52.854364	-1.210114	89.71	2.80	92.51
29	52.855349	-1.212947	88.27	2.80	91.07
30	52.855723	-1.213975	88.26	2.80	91.06
31	52.854443	-1.214484	85.99	2.80	88.79
32	52.854502	-1.214806	85.93	2.80	88.73
33	52.855104	-1.214613	86.27	2.80	89.07
34	52.855273	-1.215471	85.97	2.80	88.77
35	52.855545	-1.216244	86.11	2.80	88.91
36	52.855985	-1.216619	86.33	2.80	89.13
37	52.856554	-1.216551	86.52	2.80	89.32
38	52.857007	-1.215735	84.90	2.80	87.70
39	52.857201	-1.216057	84.81	2.80	87.61
40	52.856787	-1.216723	86.58	2.80	89.38
41	52.856955	-1.216937	86.63	2.80	89.43
42	52.857694	-1.216701	81.71	2.80	84.51
43	52.858821	-1.218031	78.47	2.80	81.27
44	52.858225	-1.219319	86.14	2.80	88.94
45	52.858277	-1.219855	85.88	2.80	88.68
46	52.858173	-1.220842	86.53	2.80	89.33
47	52.857188	-1.223202	86.58	2.80	89.38
48	52.858031	-1.224082	87.46	2.80	90.26
49	52.857661	-1.224672	87.59	2.80	90.39
50	52.857532	-1.225155	86.72	2.80	89.52
51	52.857234	-1.225734	86.78	2.80	89.58

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	m	m	m
OP 1	52.849245	-1.179697	45.47	2.75	48.22
OP 2	52.847405	-1.180577	46.34	2.75	49.09
OP 3	52.845643	-1.181392	48.23	2.75	50.98
OP 4	52.844062	-1.182164	48.89	2.75	51.64
OP 5	52.842247	-1.183044	51.55	2.75	54.30
OP 6	52.840627	-1.183817	53.49	2.75	56.24
OP 7	52.838838	-1.184675	51.93	2.75	54.68
OP 8	52.837218	-1.185451	52.06	2.75	54.81
OP 9	52.835247	-1.186567	53.97	2.75	56.72

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Central PV Array	10.0	180.0	5,313	9,749	-	-
Eastern PV Array	10.0	180.0	1,500	5,828	-	-
Southern PV Array	10.0	180.0	4,008	8,964	-	-
Western PV Array	10.0	180.0	6,162	4,657	-	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
central-pv-a (green)	0	0	50	160	169	188	184	164	111	0	0	0
central-pv-a (yellow)	0	0	0	216	558	684	636	361	30	0	0	0
eastern-pv-a (green)	0	0	0	24	31	53	45	28	4	0	0	0
eastern-pv-a (yellow)	0	0	0	158	511	652	598	293	12	0	0	0
southern-pv (green)	0	0	111	215	203	204	208	205	190	0	0	0
southern-pv (yellow)	0	0	0	220	620	745	693	391	20	0	0	0
western-pv-a (green)	0	0	5	140	300	352	361	183	44	0	0	0
western-pv-a (yellow)	0	0	0	114	153	1	56	214	5	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

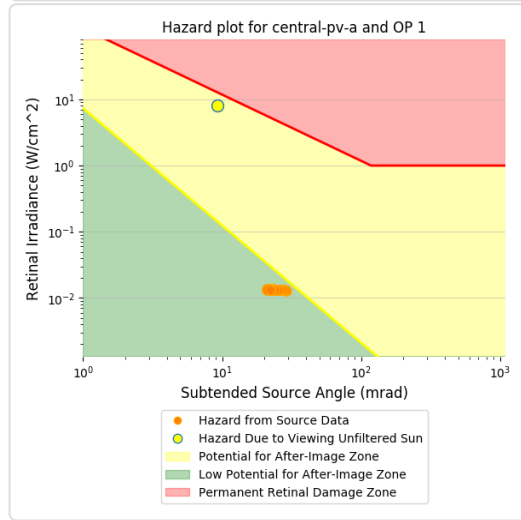
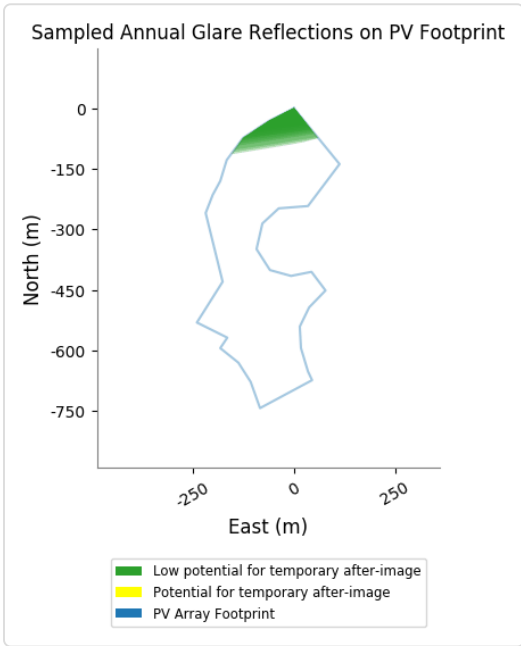
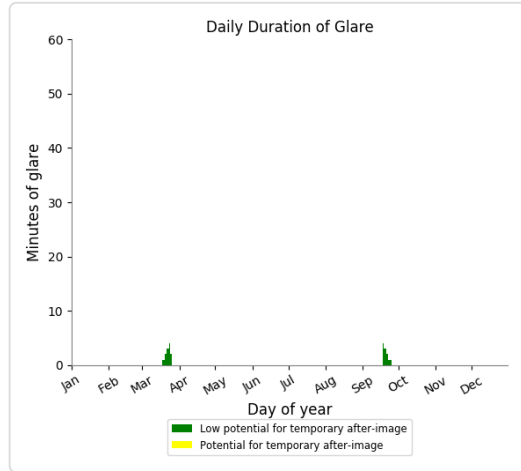
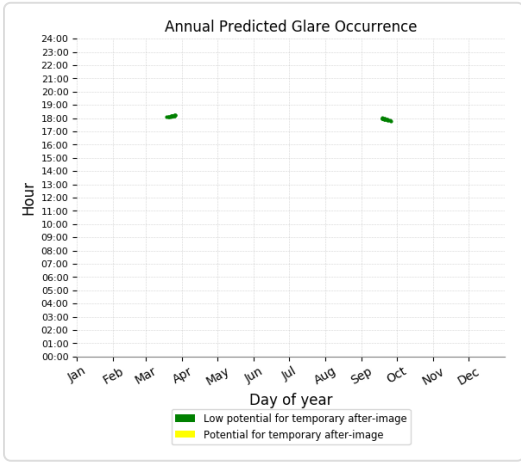
Central PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	35	0
OP: OP 2	273	22
OP: OP 3	532	314
OP: OP 4	797	1006
OP: OP 5	1250	2256
OP: OP 6	1123	2260
OP: OP 7	786	2190
OP: OP 8	517	1701
OP: OP 9	0	0

Central PV Array - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

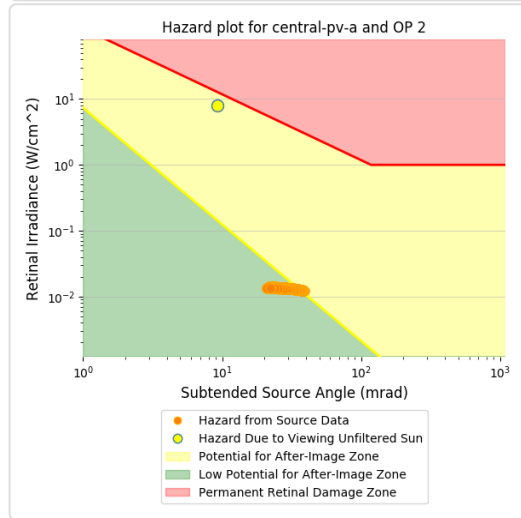
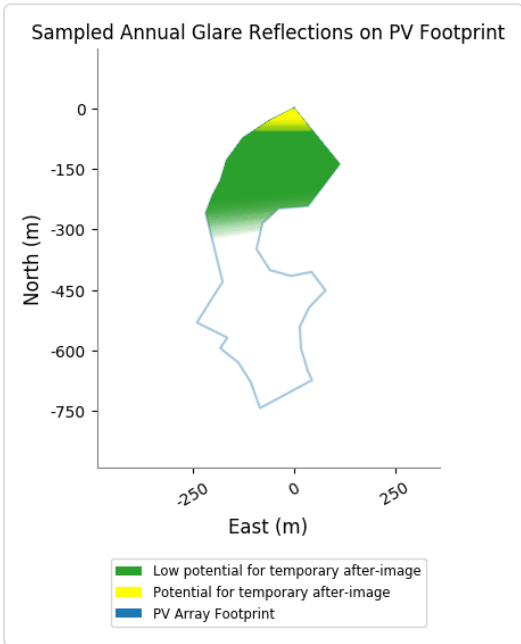
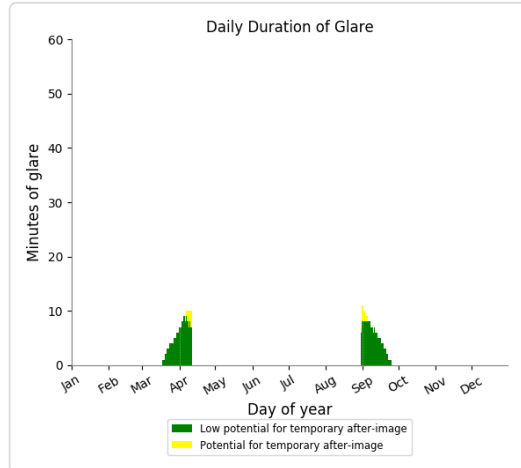
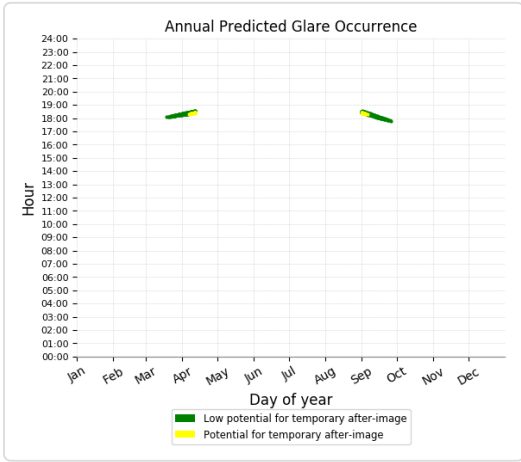
- 35 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

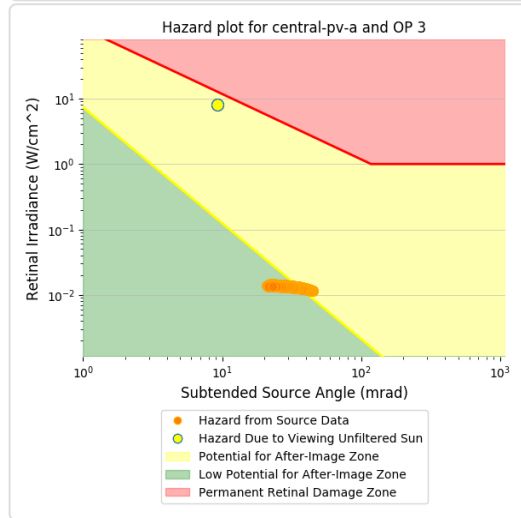
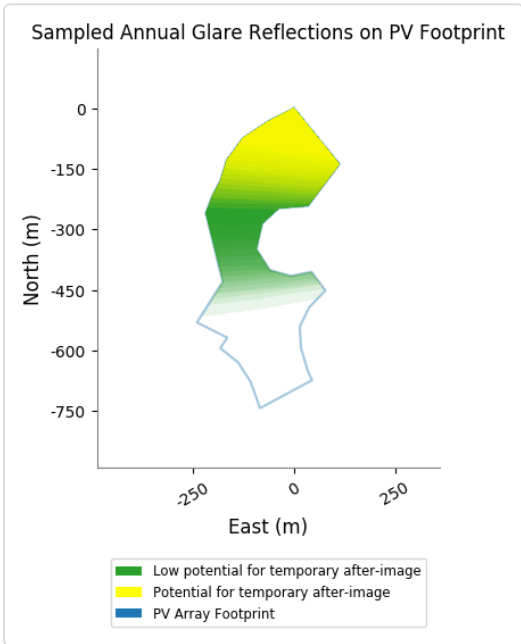
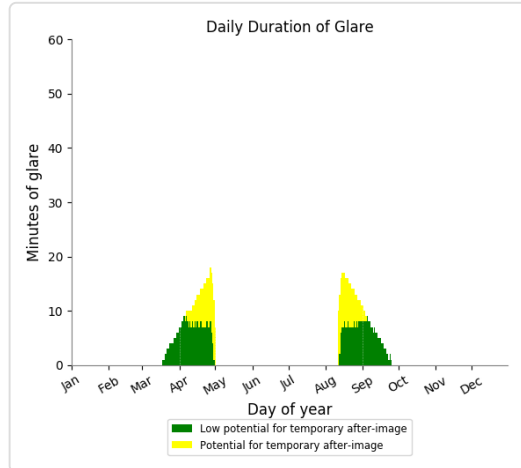
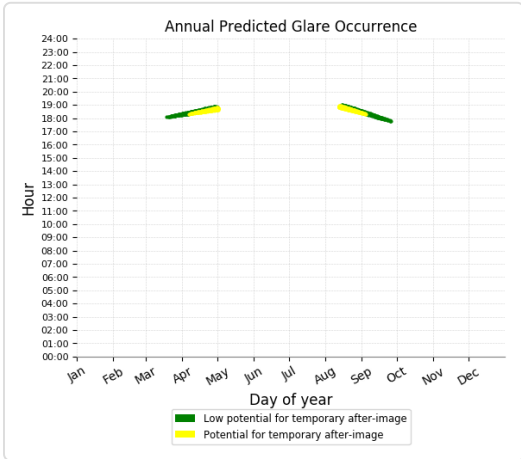
- 273 minutes of "green" glare with low potential to cause temporary after-image.
- 22 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

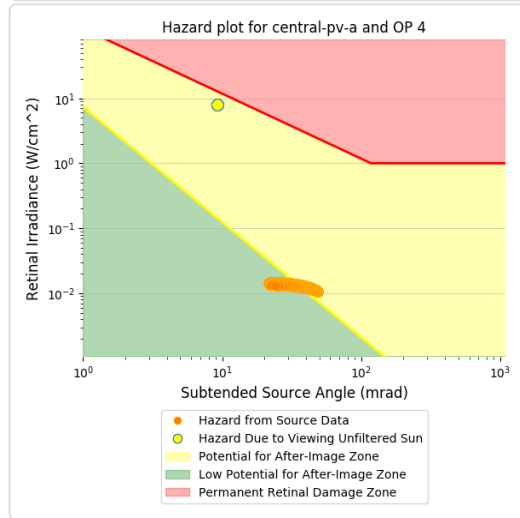
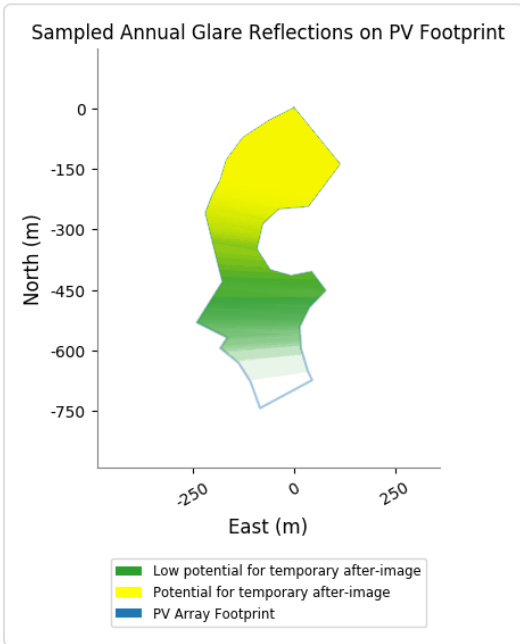
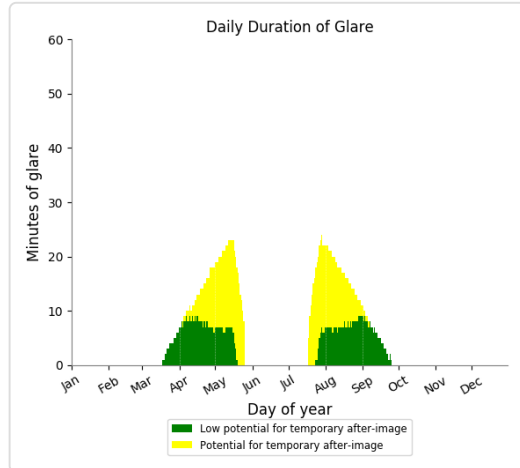
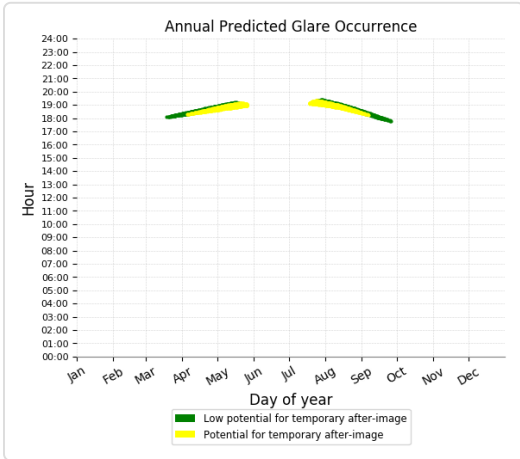
- 532 minutes of "green" glare with low potential to cause temporary after-image.
- 314 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

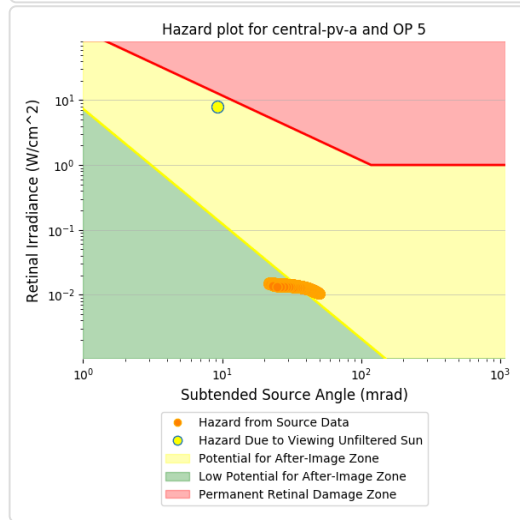
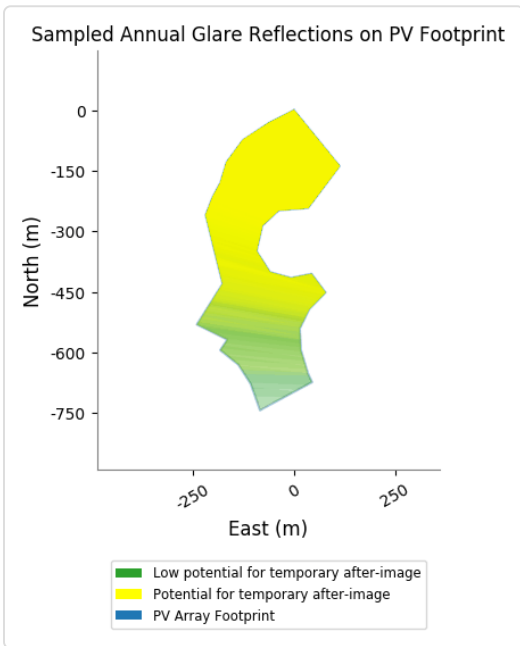
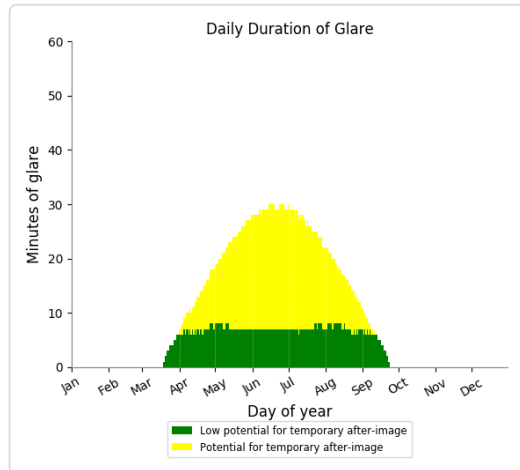
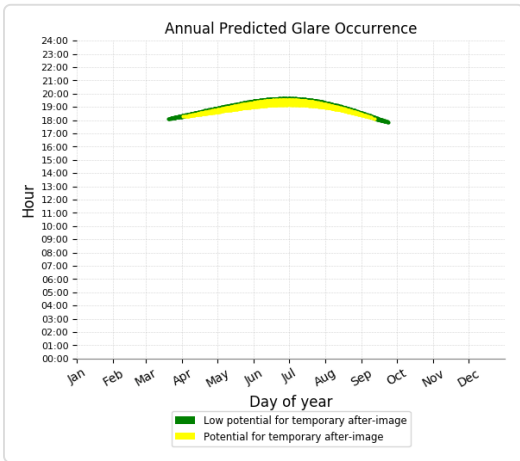
- 797 minutes of "green" glare with low potential to cause temporary after-image.
- 1,006 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

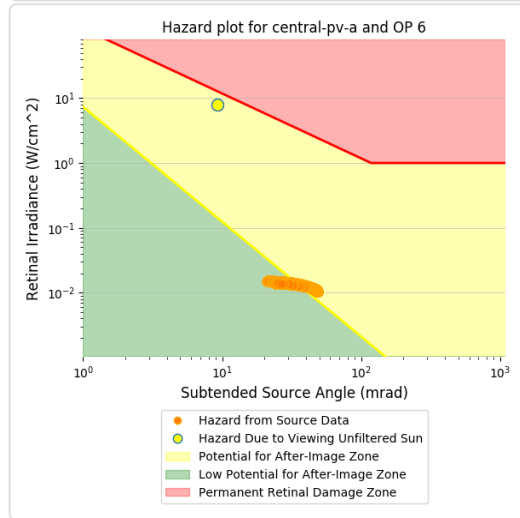
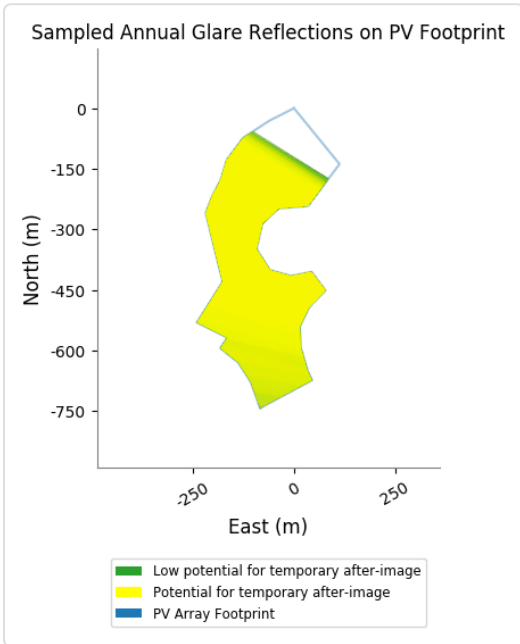
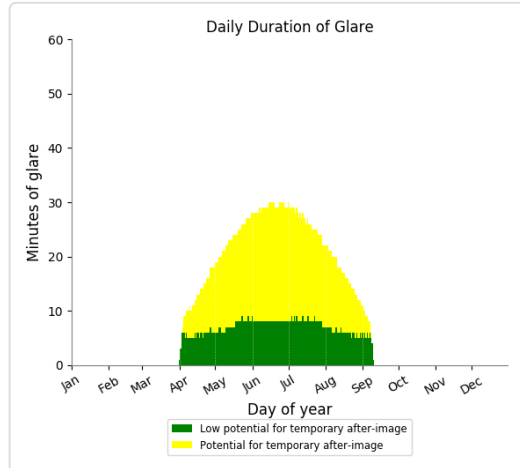
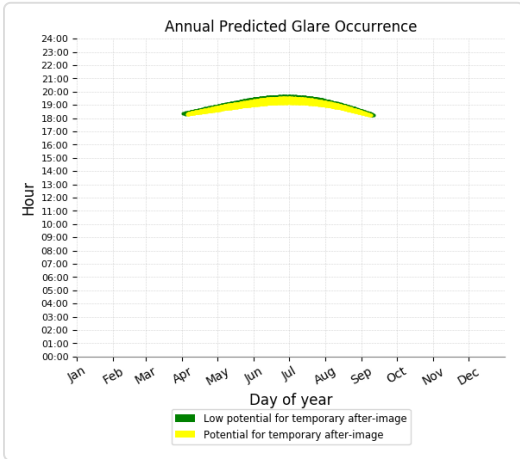
- 1,250 minutes of "green" glare with low potential to cause temporary after-image.
- 2,256 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

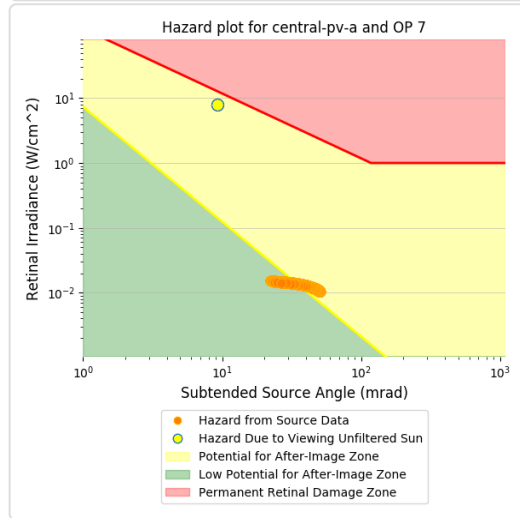
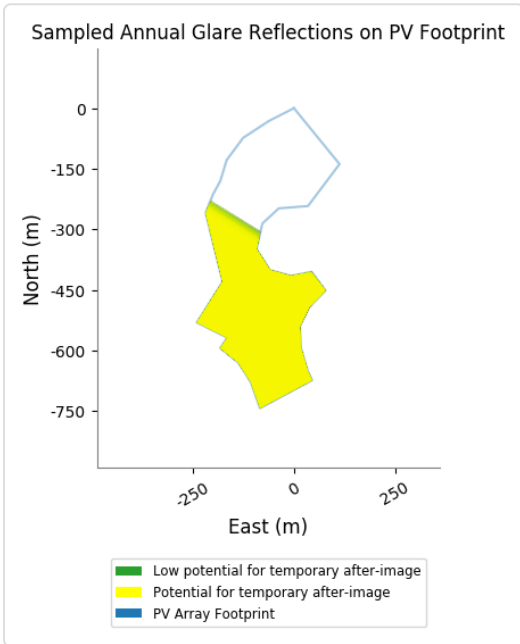
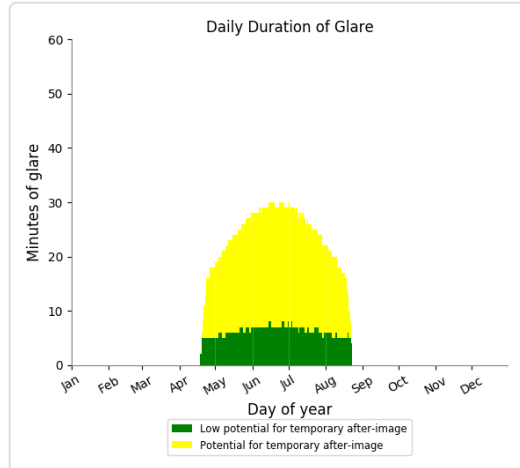
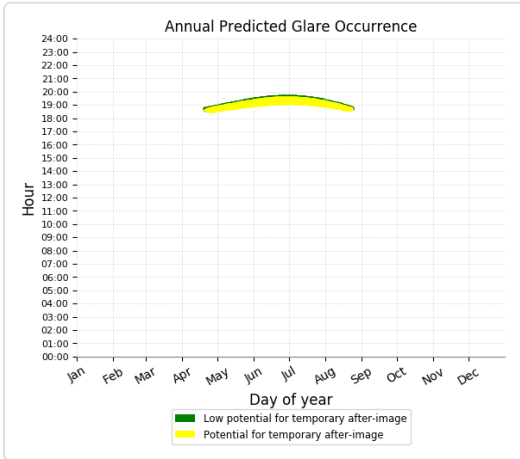
- 1,123 minutes of "green" glare with low potential to cause temporary after-image.
- 2,260 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 7)

PV array is expected to produce the following glare for receptors at this location:

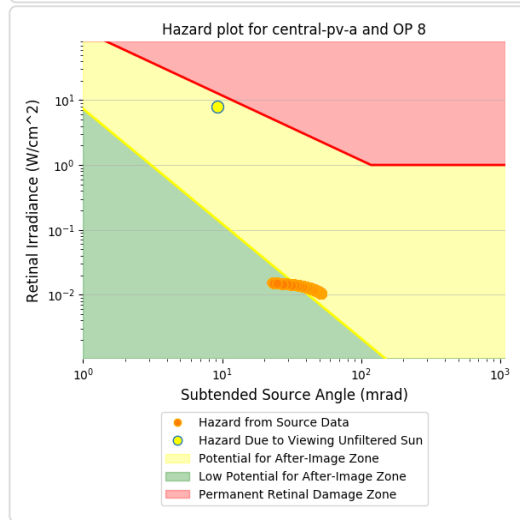
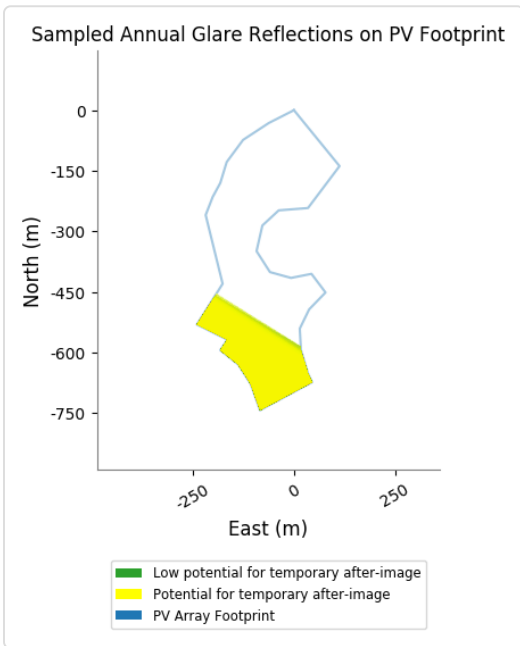
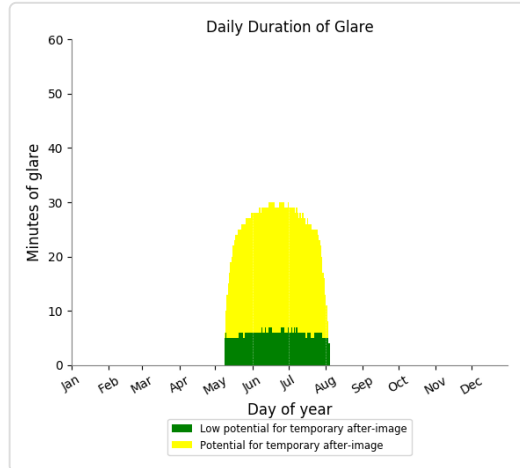
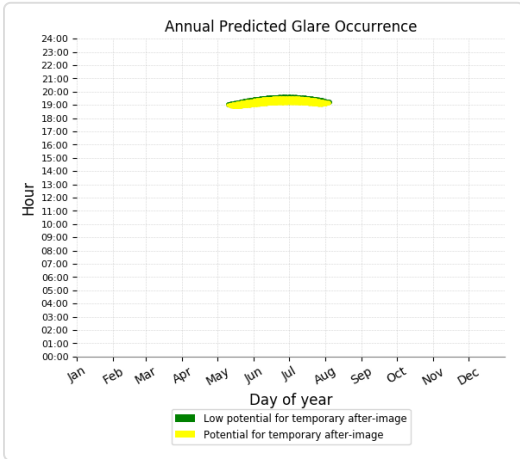
- 786 minutes of "green" glare with low potential to cause temporary after-image.
- 2,190 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 8)

PV array is expected to produce the following glare for receptors at this location:

- 517 minutes of "green" glare with low potential to cause temporary after-image.
- 1,701 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 9)

No glare found

Eastern PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	74	0
OP: OP 3	311	280
OP: OP 4	546	1681
OP: OP 5	432	1976
OP: OP 6	137	1891
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0

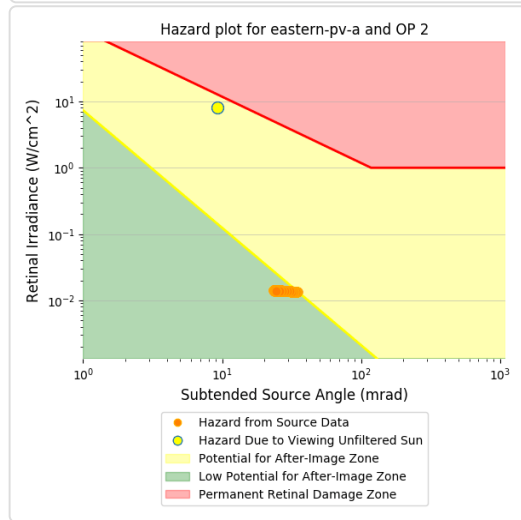
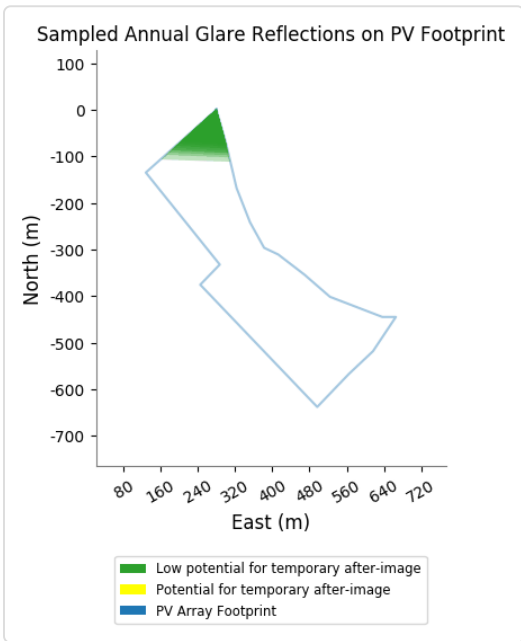
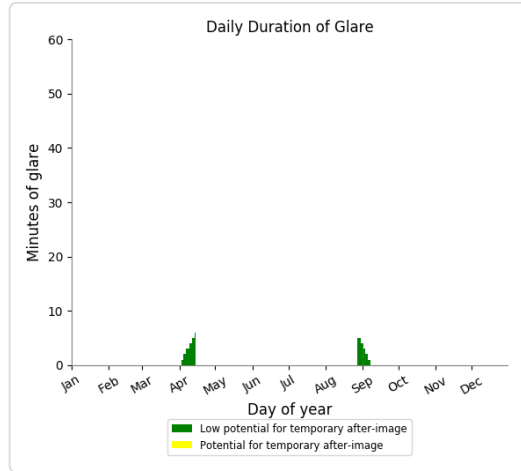
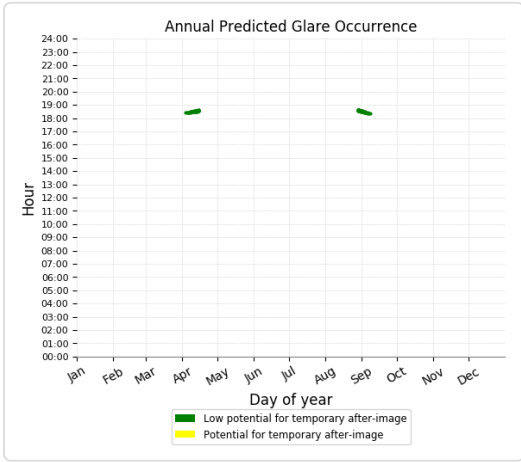
Eastern PV Array - OP Receptor (OP 1)

No glare found

Eastern PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

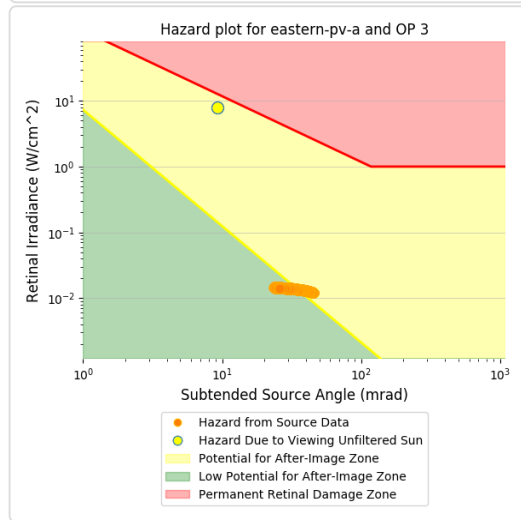
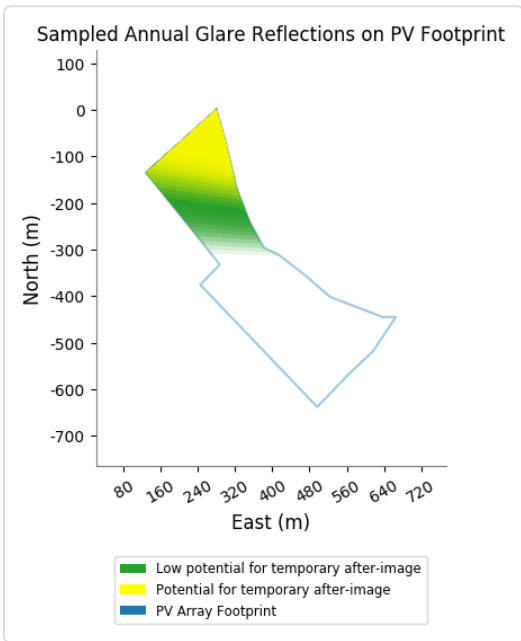
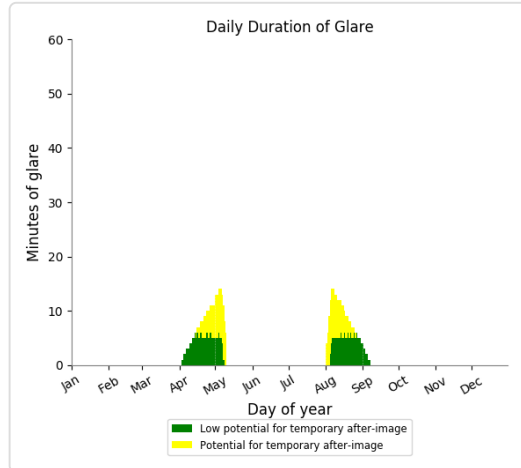
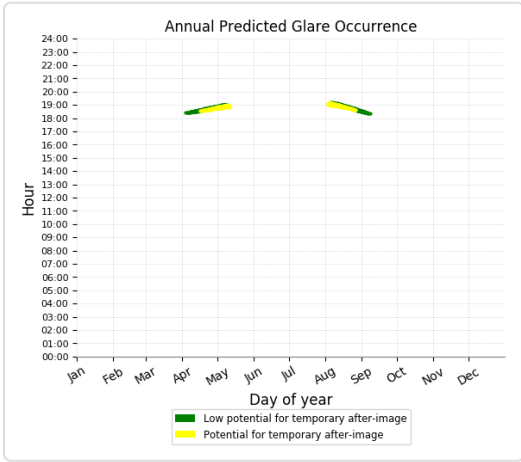
- 74 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

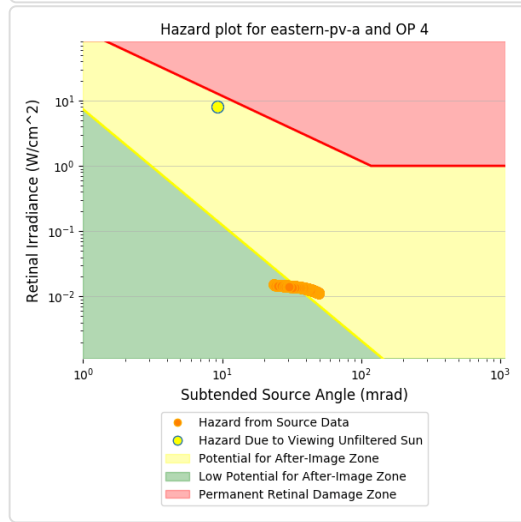
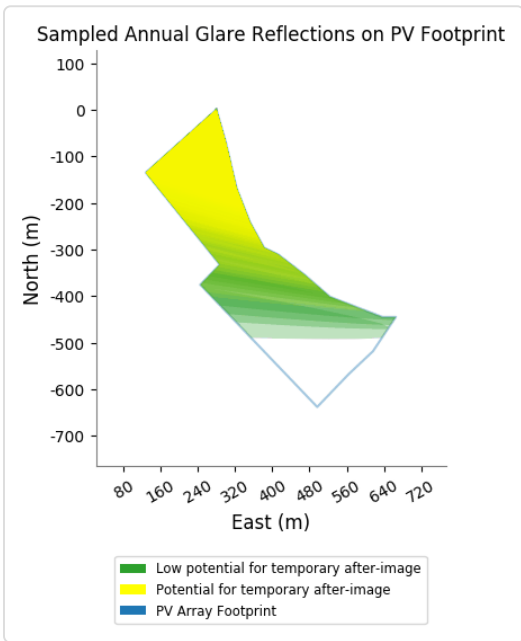
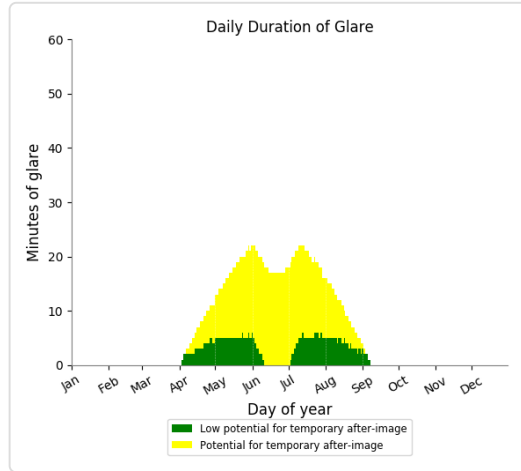
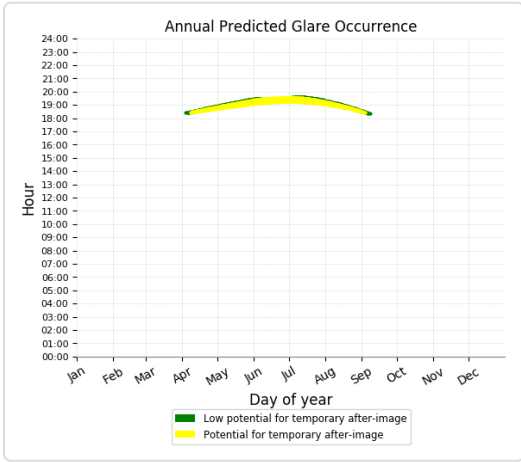
- 311 minutes of "green" glare with low potential to cause temporary after-image.
- 280 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

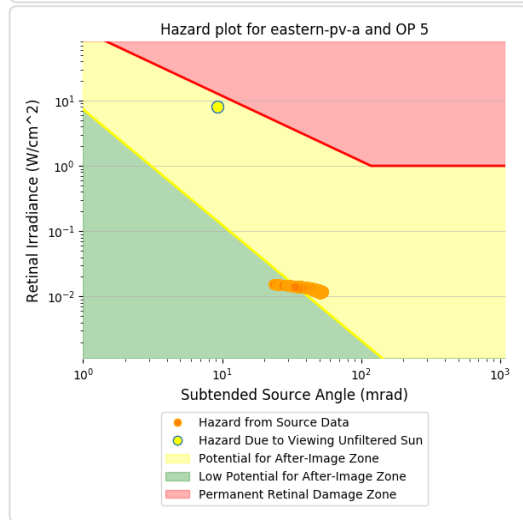
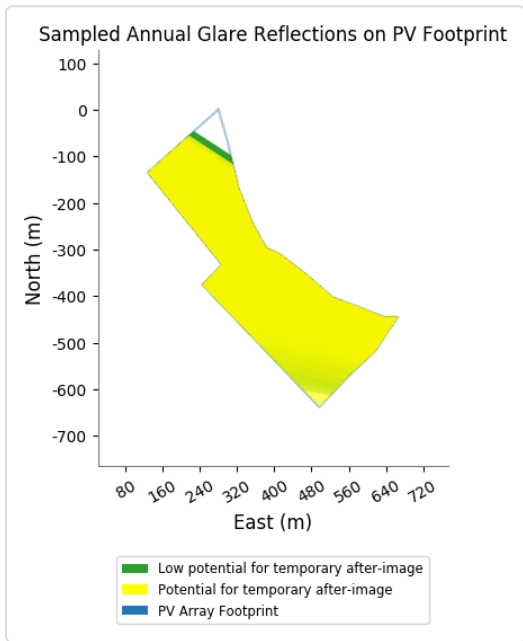
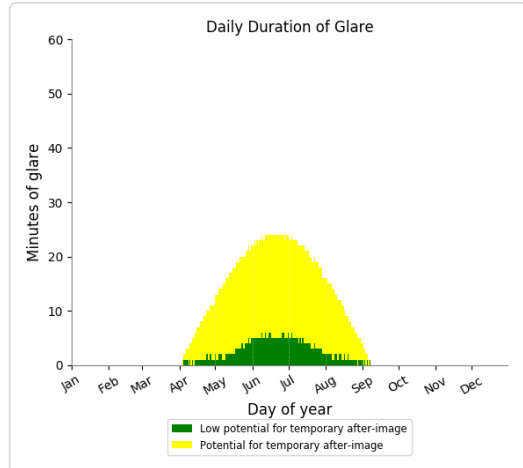
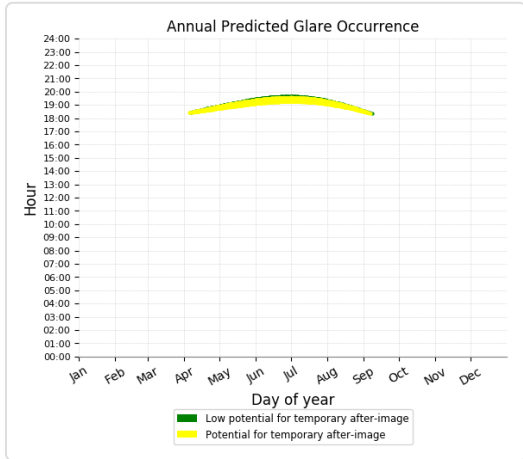
- 546 minutes of "green" glare with low potential to cause temporary after-image.
- 1,681 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

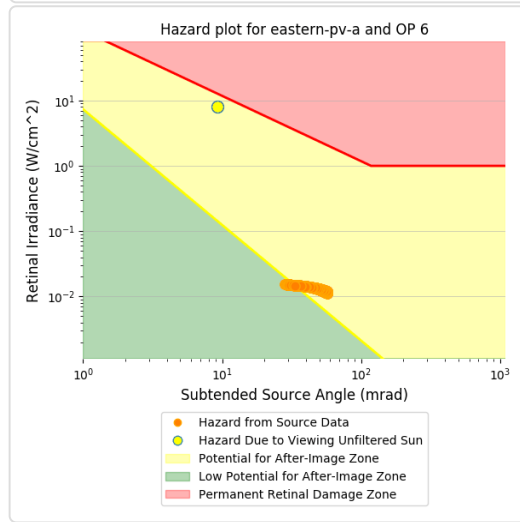
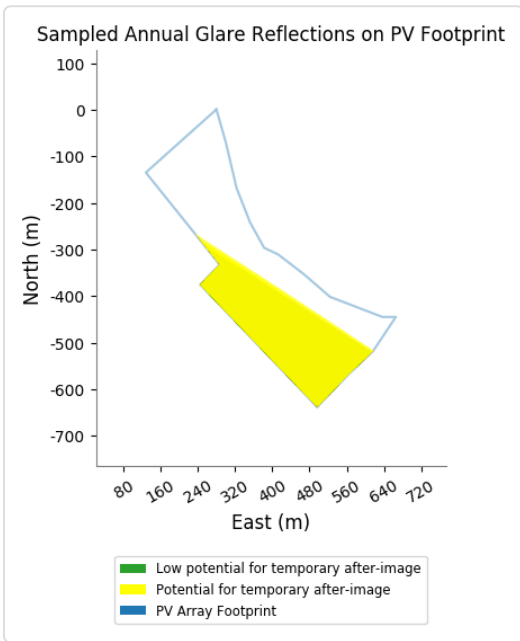
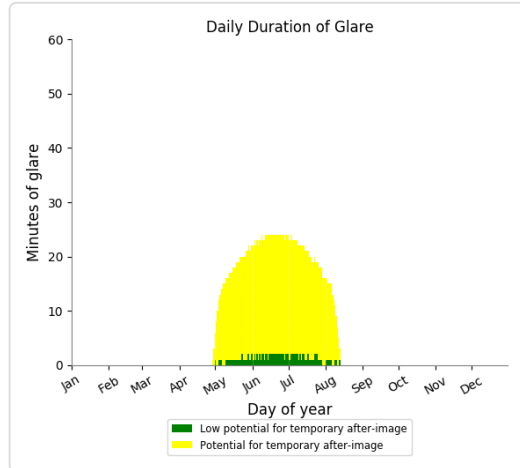
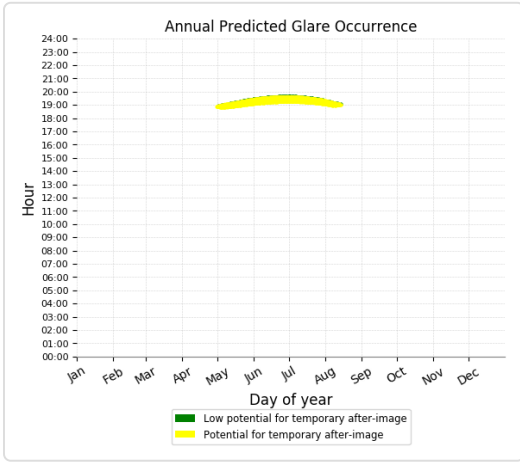
- 432 minutes of "green" glare with low potential to cause temporary after-image.
- 1,976 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

- 137 minutes of "green" glare with low potential to cause temporary after-image.
- 1,891 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 7)

No glare found

Eastern PV Array - OP Receptor (OP 8)

No glare found

Eastern PV Array - OP Receptor (OP 9)

No glare found

Southern PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	373	213
OP: OP 6	765	1634
OP: OP 7	1118	2999
OP: OP 8	1031	2693

Southern PV Array - OP Receptor (OP 1)

No glare found

Southern PV Array - OP Receptor (OP 2)

No glare found

Southern PV Array - OP Receptor (OP 3)

No glare found

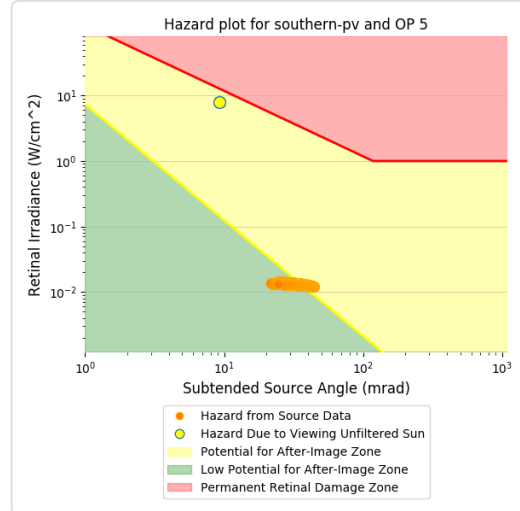
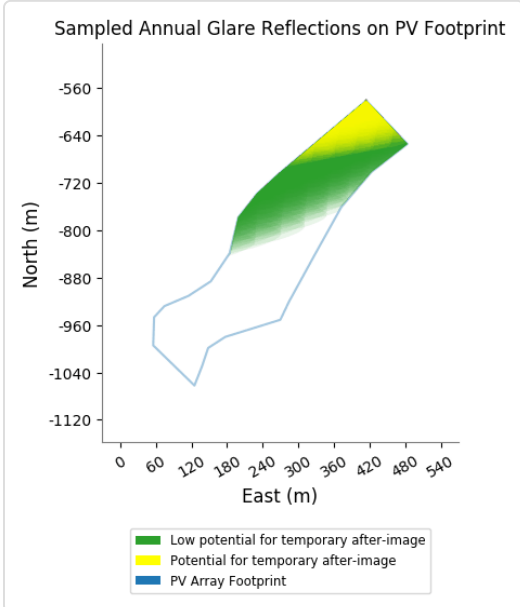
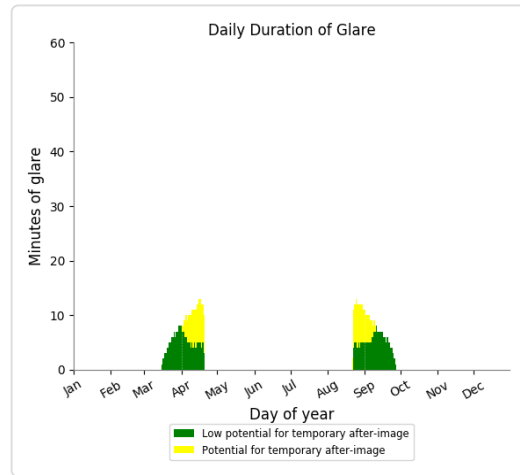
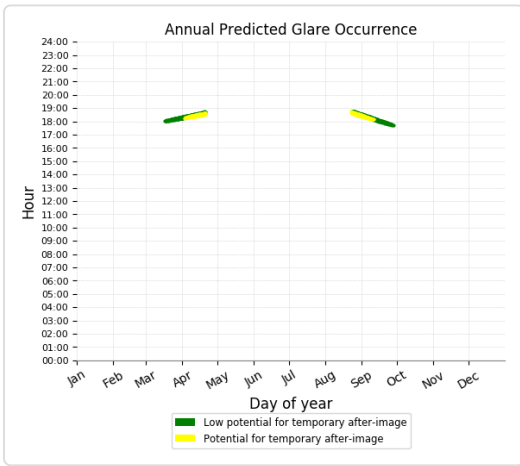
Southern PV Array - OP Receptor (OP 4)

No glare found

Southern PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

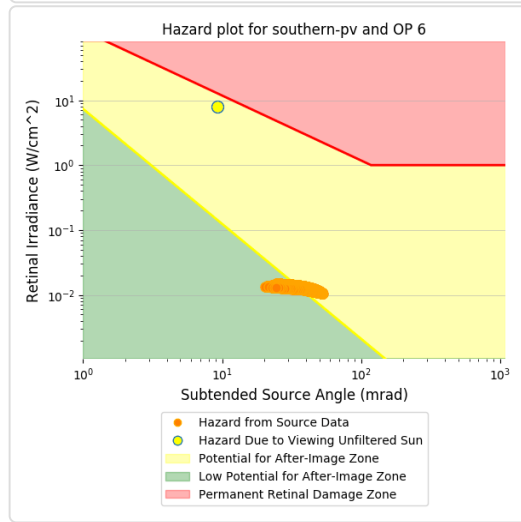
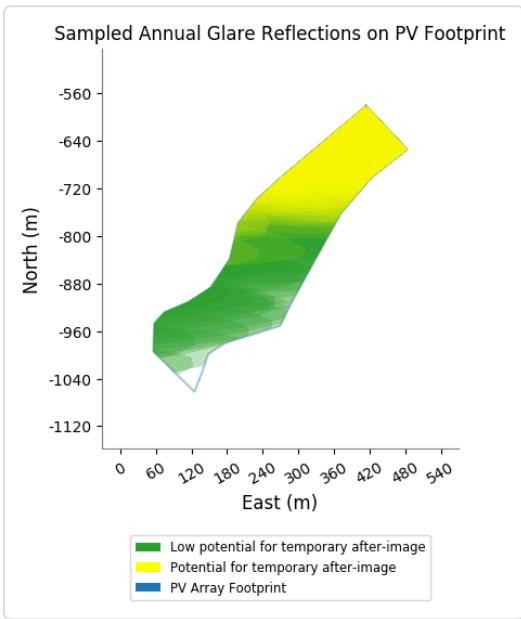
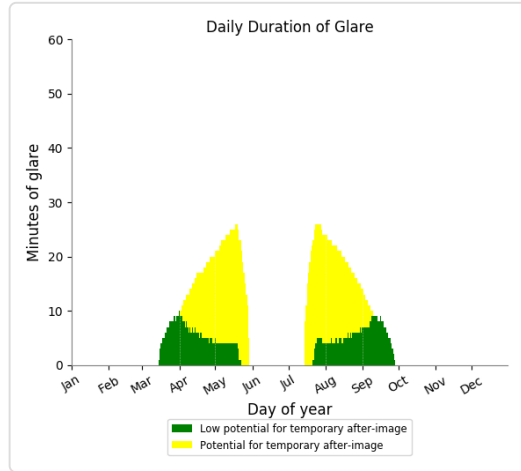
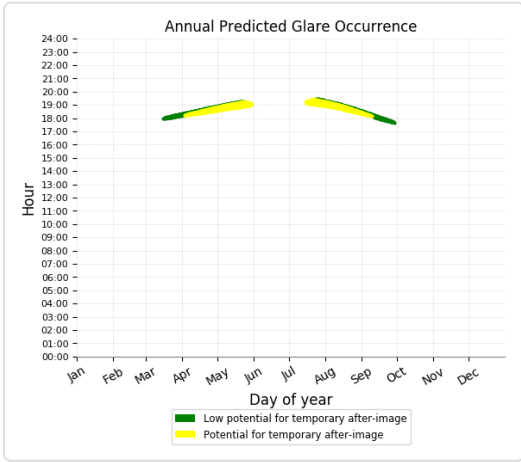
- 373 minutes of "green" glare with low potential to cause temporary after-image.
- 213 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

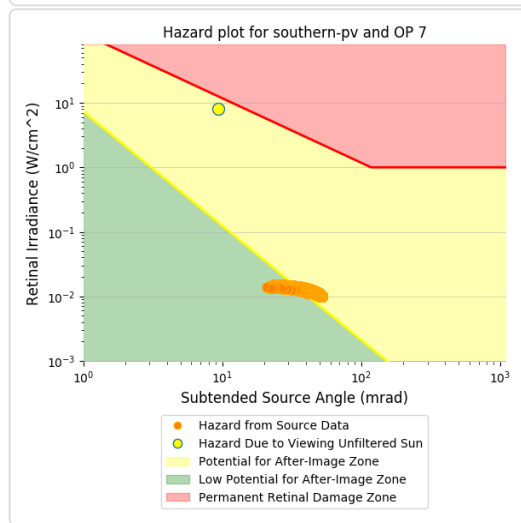
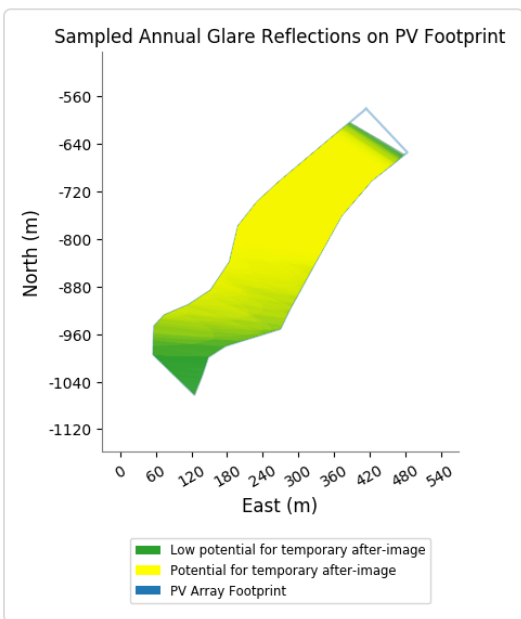
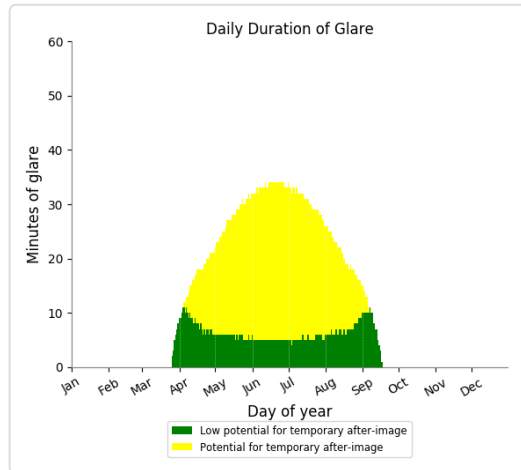
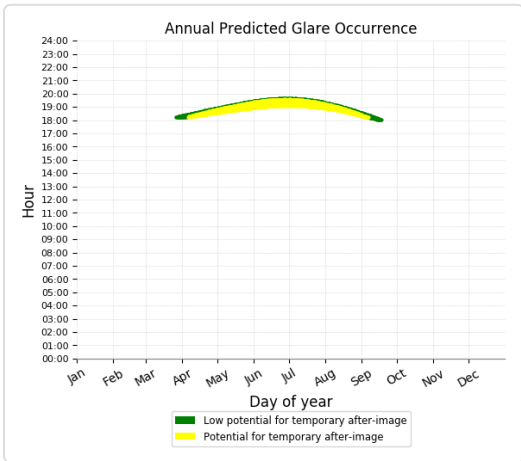
- 765 minutes of "green" glare with low potential to cause temporary after-image.
- 1,634 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 7)

PV array is expected to produce the following glare for receptors at this location:

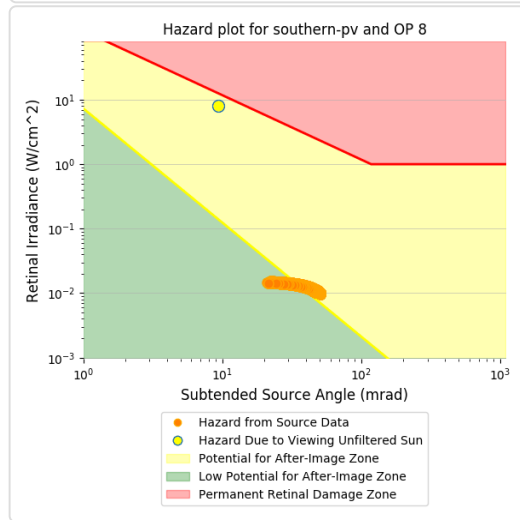
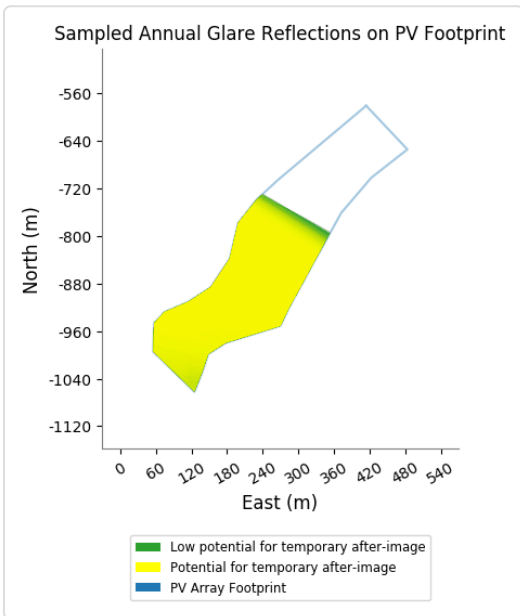
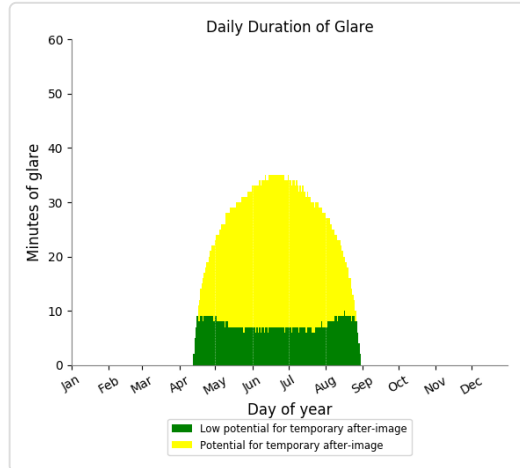
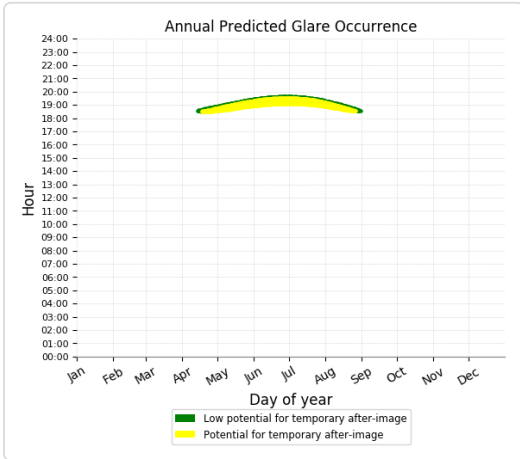
- 1,118 minutes of "green" glare with low potential to cause temporary after-image.
- 2,999 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 8)

PV array is expected to produce the following glare for receptors at this location:

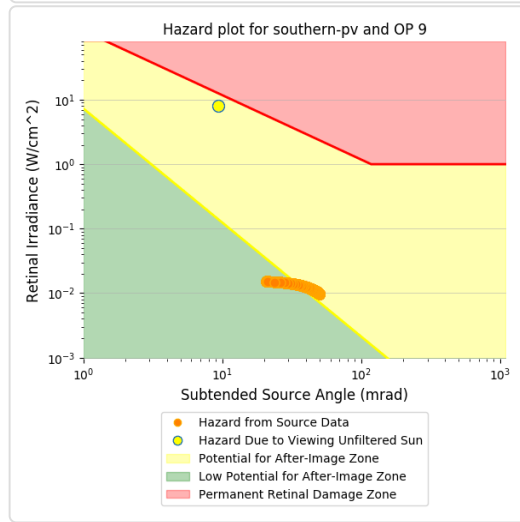
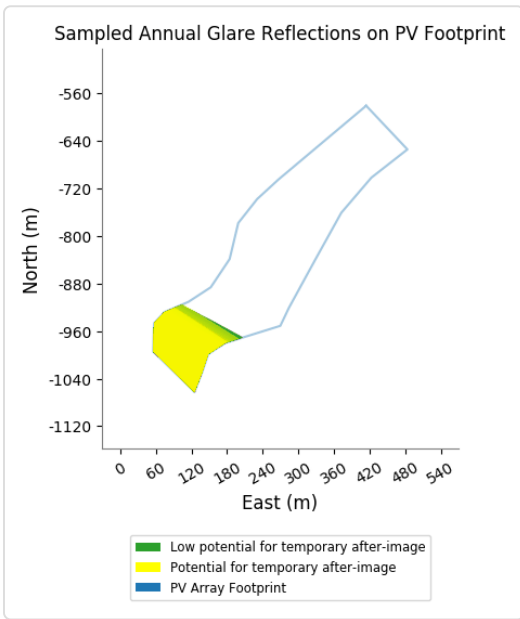
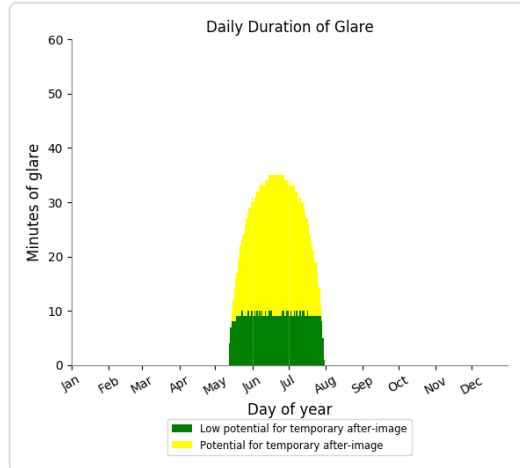
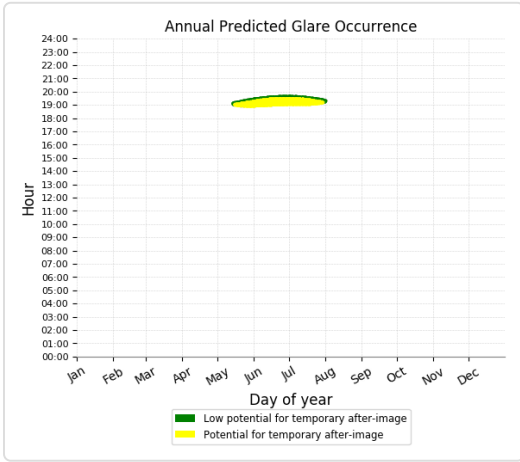
- 1,031 minutes of "green" glare with low potential to cause temporary after-image.
- 2,693 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 9)

PV array is expected to produce the following glare for receptors at this location:

- 721 minutes of "green" glare with low potential to cause temporary after-image.
- 1,425 minutes of "yellow" glare with potential to cause temporary after-image.



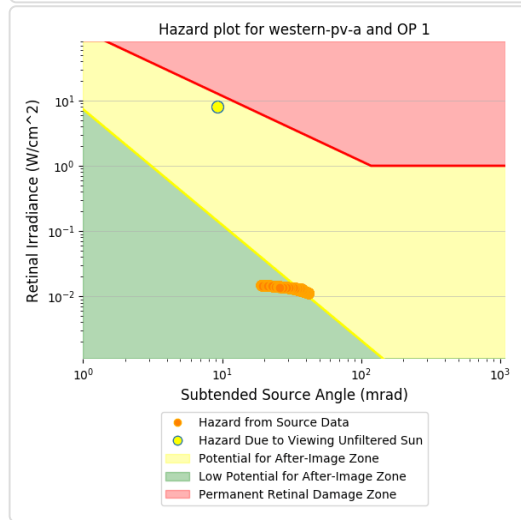
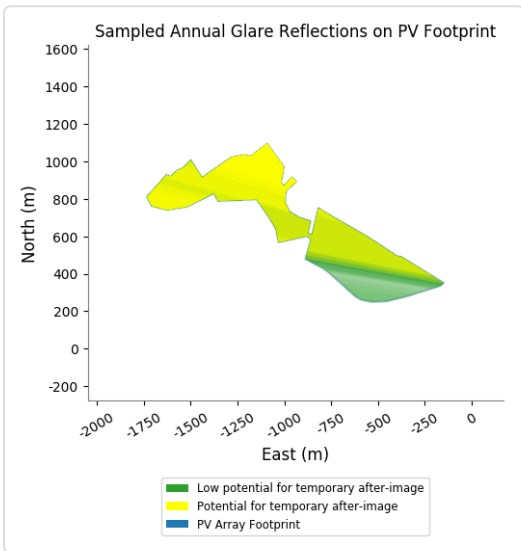
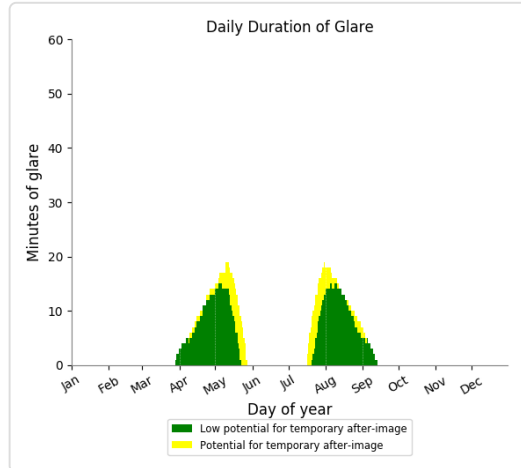
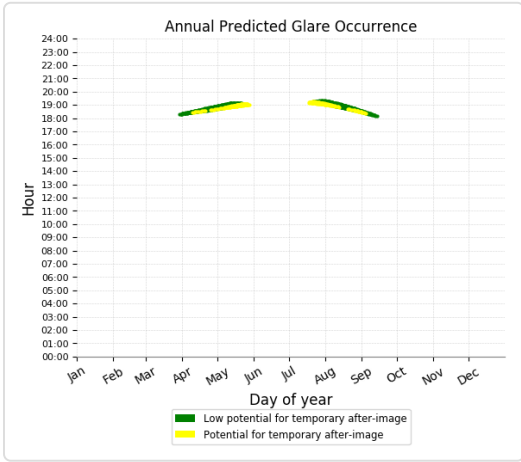
Western PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	961	297
OP: OP 2	1074	1127
OP: OP 3	1091	1327
OP: OP 4	926	1284
OP: OP 5	1095	622
OP: OP 6	1015	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0

Western PV Array - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

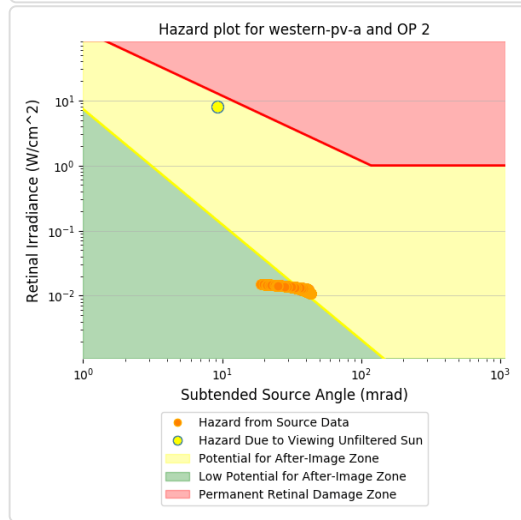
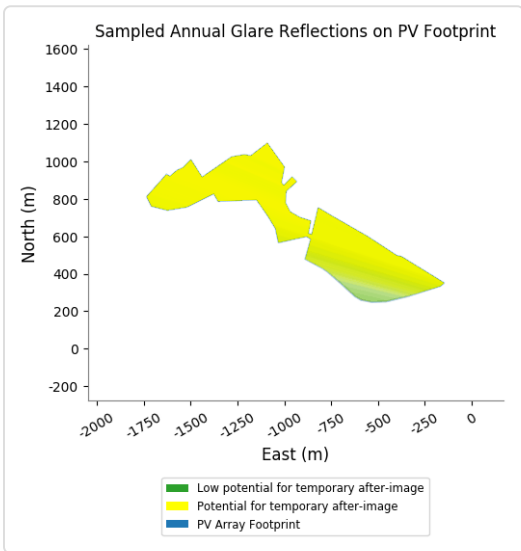
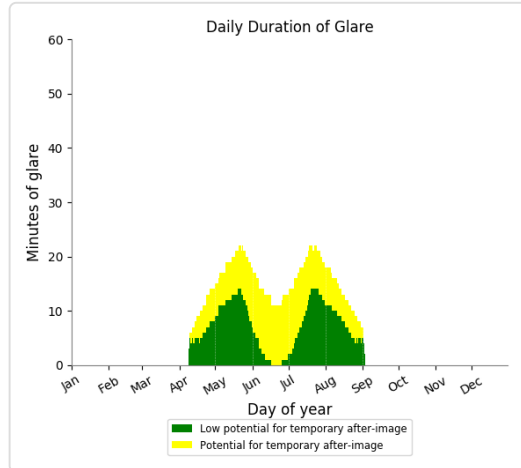
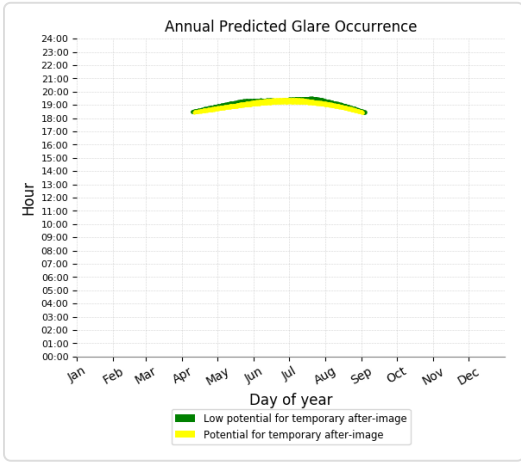
- 961 minutes of "green" glare with low potential to cause temporary after-image.
- 297 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

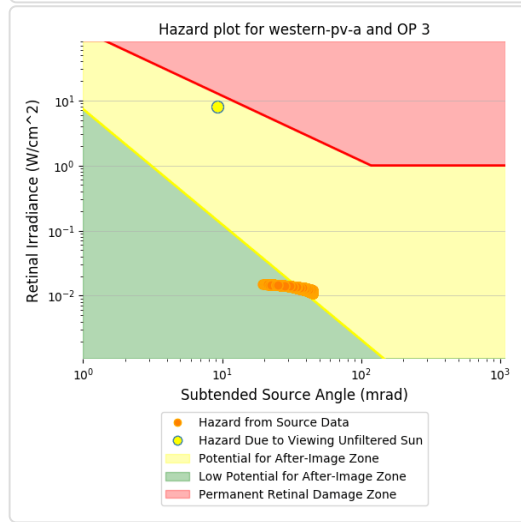
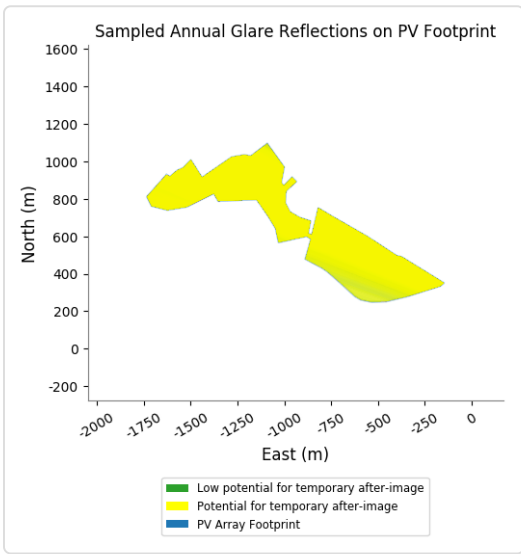
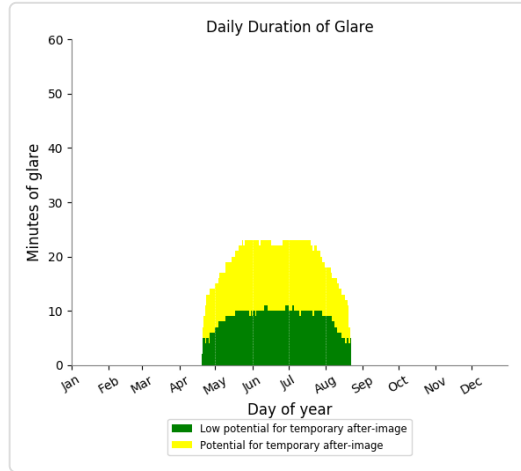
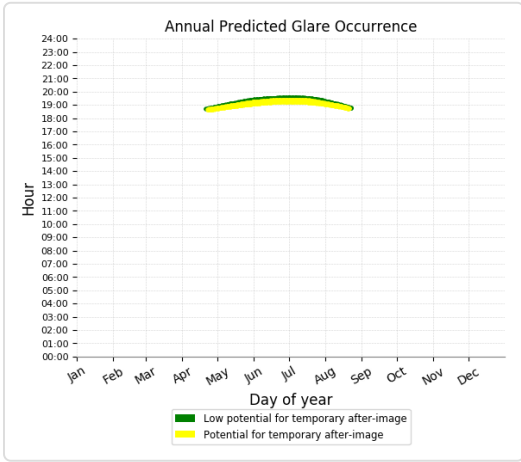
- 1,074 minutes of "green" glare with low potential to cause temporary after-image.
- 1,127 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

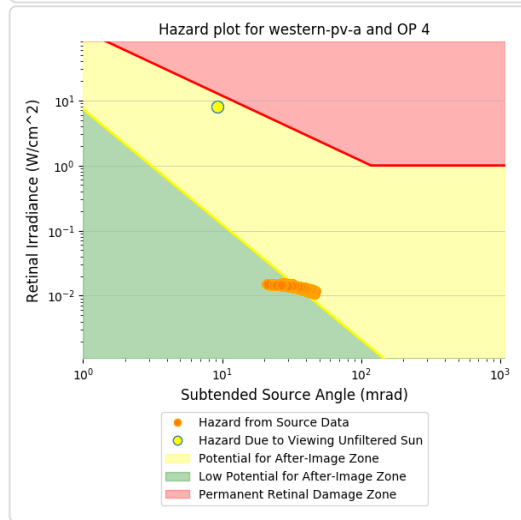
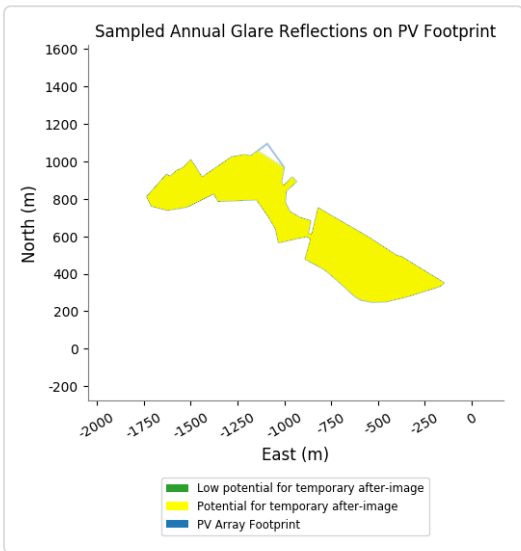
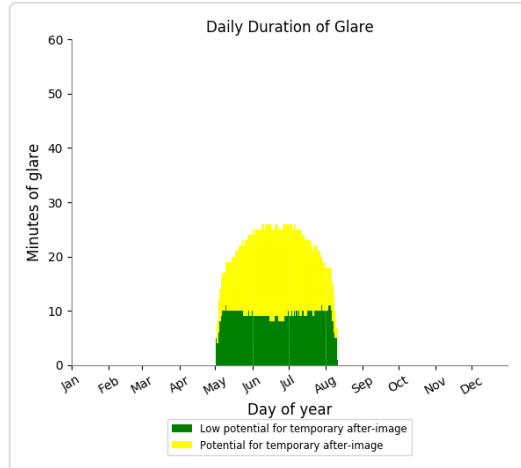
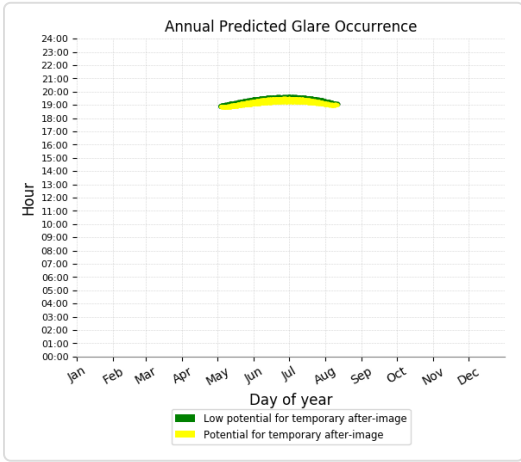
- 1,091 minutes of "green" glare with low potential to cause temporary after-image.
- 1,327 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

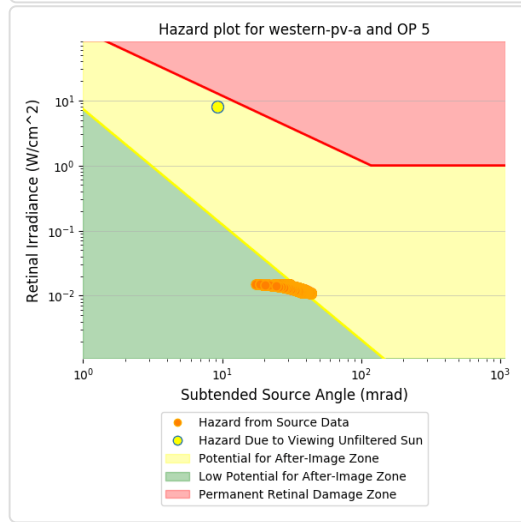
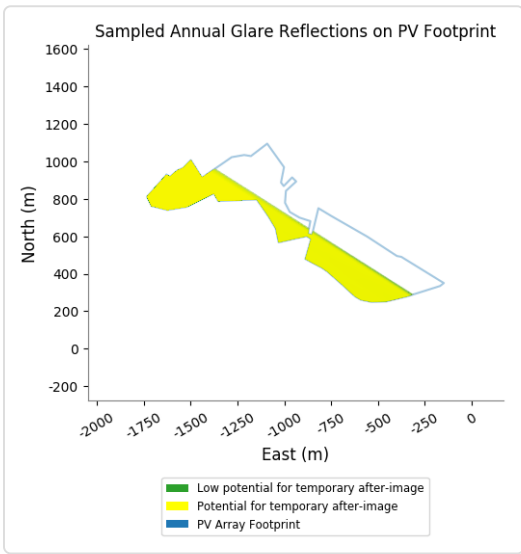
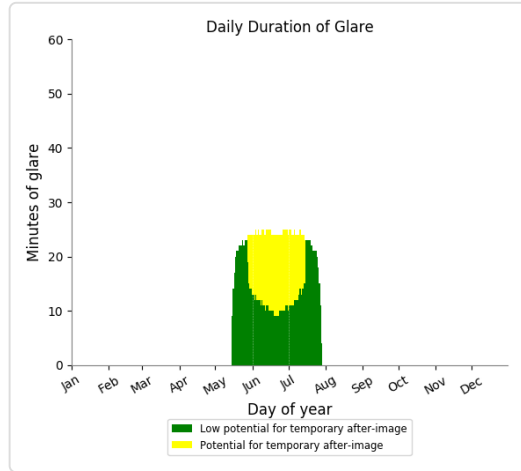
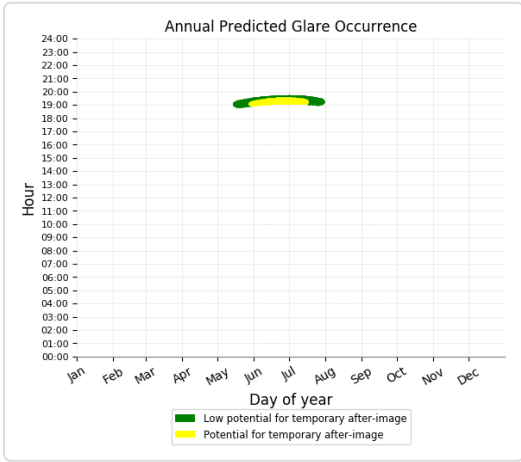
- 926 minutes of "green" glare with low potential to cause temporary after-image.
- 1,284 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

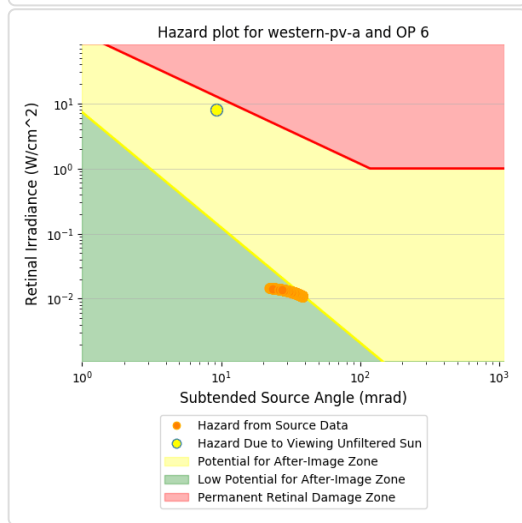
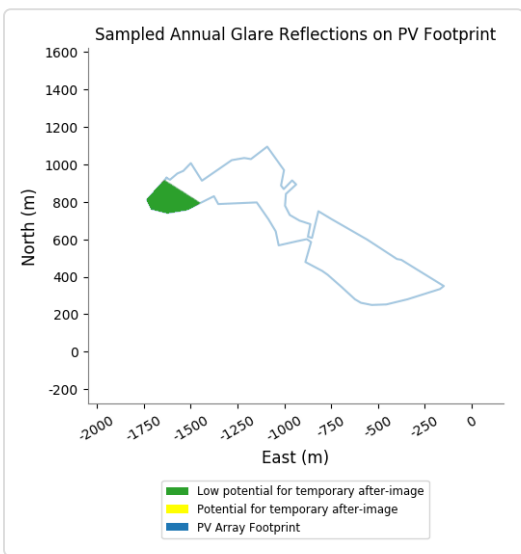
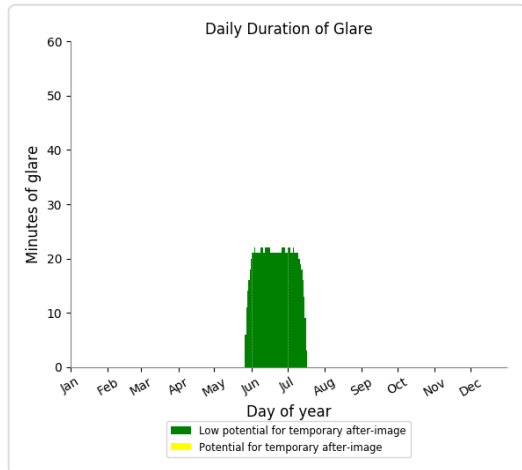
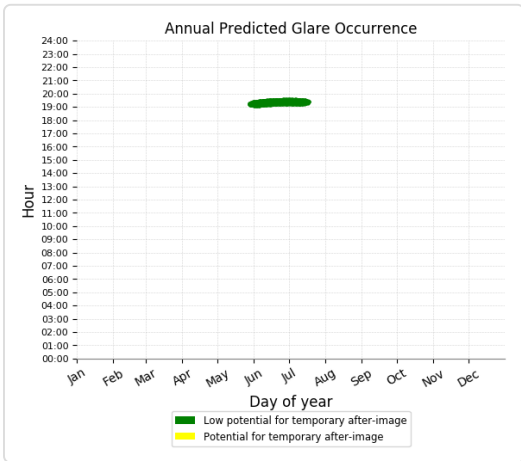
- 1,095 minutes of "green" glare with low potential to cause temporary after-image.
- 622 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

- 1,015 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 7)

No glare found

Western PV Array - OP Receptor (OP 8)

No glare found

Western PV Array - OP Receptor (OP 9)

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- 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.
- 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.
- 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.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
- Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
- Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.

- Refer to the **Help page** for detailed assumptions and limitations not listed here.



Appendix 7I: Rail Receptor Glare (40 Deg)





Kingston Solar Farm

Kingston Solar Farm Rail 40Deg

Created Aug. 11, 2021
 Updated Aug. 11, 2021
 Time-step 1 minute
 Timezone offset UTC0
 Site ID 57208.10138

Project type Advanced
 Project status: active
 Category 10 MW to 100 MW



Misc. Analysis Settings

DNI: varies (1,000.0 W/m² peak)
 Ocular transmission coefficient: 0.5
 Pupil diameter: 0.002 m
 Eye focal length: 0.017 m
 Sun subtended angle: 9.3 mrad

Analysis Methodologies:

- Observation point: **Version 2**
- 2-Mile Flight Path: **Version 2**
- Route: **Version 2**

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

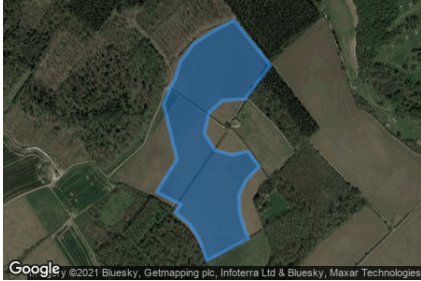
PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced
	deg	deg	min	min	kWh
Central PV Array	40.0	180.0	1,753	18,815	-
Eastern PV Array	40.0	180.0	307	13,643	-
Southern PV Array	40.0	180.0	2,156	16,123	-
Western PV Array	40.0	180.0	2,488	8,435	-

Component Data

PV Array(s)

Total PV footprint area: 652,007 m²

Name: Central PV Array
Axis tracking: Fixed (no rotation)
Tilt: 40.0 deg
Orientation: 180.0 deg
Footprint area: 132,824 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.848987	-1.201839	96.58	2.80	99.38
2	52.847743	-1.200166	96.44	2.80	99.24
3	52.846810	-1.201324	93.14	2.80	95.94
4	52.846758	-1.202397	91.84	2.80	94.64
5	52.846421	-1.202998	90.05	2.80	92.85
6	52.845851	-1.203213	89.14	2.80	91.94
7	52.845385	-1.202719	89.74	2.80	92.54
8	52.845255	-1.201947	90.82	2.80	93.62
9	52.845346	-1.201196	92.07	2.80	94.87
10	52.844931	-1.200681	91.18	2.80	93.98
11	52.844555	-1.201282	89.97	2.80	92.77
12	52.844127	-1.201625	88.30	2.80	91.10
13	52.843648	-1.201582	86.48	2.80	89.28
14	52.843129	-1.201324	84.47	2.80	87.27
15	52.842935	-1.201174	82.65	2.80	85.45
16	52.842313	-1.203084	80.74	2.80	83.54
17	52.842896	-1.203427	84.27	2.80	87.07
18	52.843324	-1.203878	87.66	2.80	90.46
19	52.843648	-1.204543	86.76	2.80	89.56
20	52.843881	-1.204286	86.82	2.80	89.62
21	52.844218	-1.205401	81.43	2.80	84.23
22	52.845125	-1.204457	85.10	2.80	87.90
23	52.846655	-1.205080	82.01	2.80	84.81
24	52.847056	-1.204822	85.02	2.80	87.82
25	52.847367	-1.204543	86.44	2.80	89.24
26	52.847834	-1.204307	87.45	2.80	90.25
27	52.848326	-1.203706	91.82	2.80	94.62
28	52.848702	-1.202762	92.71	2.80	95.51

Name: Eastern PV Array
Axis tracking: Fixed (no rotation)
Tilt: 40.0 deg
Orientation: 180.0 deg
Footprint area: 105,300 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



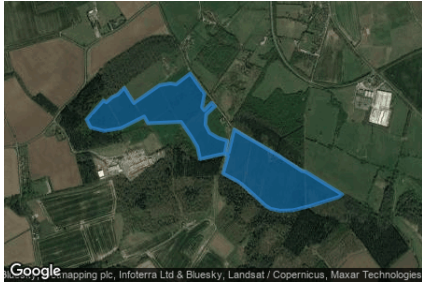
Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.848995	-1.197688	96.44	2.80	99.24
2	52.848360	-1.197387	95.39	2.80	98.19
3	52.847479	-1.197044	94.28	2.80	97.08
4	52.846818	-1.196615	93.25	2.80	96.05
5	52.846325	-1.196164	92.60	2.80	95.40
6	52.846196	-1.195714	92.11	2.80	94.91
7	52.845807	-1.194877	92.17	2.80	94.97
8	52.845379	-1.194061	92.96	2.80	95.76
9	52.844991	-1.192388	93.06	2.80	95.86
10	52.844991	-1.191959	93.08	2.80	95.88
11	52.844330	-1.192688	93.00	2.80	95.80
12	52.843889	-1.193461	93.10	2.80	95.90
13	52.843254	-1.194469	92.64	2.80	95.44
14	52.845613	-1.198203	94.92	2.80	97.72
15	52.846001	-1.197580	95.01	2.80	97.81
16	52.847777	-1.199941	96.64	2.80	99.44

Name: Southern PV Array
Axis tracking: Fixed (no rotation)
Tilt: 40.0 deg
Orientation: 180.0 deg
Footprint area: 63,120 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.843772	-1.195693	91.46	2.80	94.26
2	52.843111	-1.194663	93.99	2.80	96.79
3	52.842683	-1.195564	92.28	2.80	95.08
4	52.842152	-1.196315	91.71	2.80	94.51
5	52.841426	-1.196980	91.38	2.80	94.18
6	52.840713	-1.197624	90.47	2.80	93.27
7	52.840441	-1.197838	90.31	2.80	93.11
8	52.840182	-1.199212	88.30	2.80	91.10
9	52.840013	-1.199641	87.99	2.80	90.79
10	52.839741	-1.199791	87.54	2.80	90.34
11	52.839443	-1.199984	88.09	2.80	90.89
12	52.840052	-1.201014	83.30	2.80	86.10
13	52.840480	-1.200993	78.20	2.80	81.00
14	52.840648	-1.200735	79.17	2.80	81.97
15	52.840804	-1.200134	82.43	2.80	85.23
16	52.841024	-1.199576	84.40	2.80	87.20
17	52.841452	-1.199104	85.12	2.80	87.92
18	52.841996	-1.198890	83.52	2.80	86.32
19	52.842359	-1.198418	85.08	2.80	87.88
20	52.842657	-1.197881	87.03	2.80	89.83

Name: Western PV Array
Axis tracking: Fixed (no rotation)
Tilt: 40.0 deg
Orientation: 180.0 deg
Footprint area: 350,763 m²
Rated power: -
Panel material: Light textured glass with AR coating
Vary reflectivity with sun position? Yes
Correlate slope error with surface type? Yes
Slope error: 9.16 mrad



Vertex	Latitude deg	Longitude deg	Ground elevation m	Height above ground m	Total elevation m
1	52.857326	-1.226006	85.78	2.80	88.58
2	52.856276	-1.227551	83.98	2.80	86.78
3	52.855836	-1.227186	83.12	2.80	85.92
4	52.855641	-1.225941	78.84	2.80	81.64
5	52.855797	-1.224396	78.16	2.80	80.96
6	52.856445	-1.222251	83.48	2.80	86.28
7	52.856069	-1.221907	79.29	2.80	82.09
8	52.856147	-1.218860	82.71	2.80	85.51
9	52.855343	-1.217938	79.35	2.80	82.15
10	52.854760	-1.217358	81.43	2.80	84.23
11	52.854086	-1.217122	83.25	2.80	86.05
12	52.854281	-1.215706	85.51	2.80	88.31
13	52.854384	-1.214891	86.05	2.80	88.85
14	52.854247	-1.214556	86.06	2.80	88.86
15	52.853288	-1.215007	86.17	2.80	88.97
16	52.852861	-1.213676	85.74	2.80	88.54
17	52.852679	-1.213247	86.03	2.80	88.83
18	52.852096	-1.212153	85.92	2.80	88.72
19	52.851500	-1.211080	86.35	2.80	89.15
20	52.851332	-1.210608	86.08	2.80	88.88
21	52.851228	-1.209750	86.36	2.80	89.16
22	52.851254	-1.208591	87.09	2.80	89.89
23	52.851500	-1.206917	88.98	2.80	91.78
24	52.851993	-1.204342	93.00	2.80	95.80
25	52.852135	-1.204042	94.13	2.80	96.93
26	52.853392	-1.207411	90.98	2.80	93.78
27	52.853431	-1.207754	90.78	2.80	93.58
28	52.854364	-1.210114	89.71	2.80	92.51
29	52.855349	-1.212947	88.27	2.80	91.07
30	52.855723	-1.213975	88.26	2.80	91.06
31	52.854443	-1.214484	85.99	2.80	88.79
32	52.854502	-1.214806	85.93	2.80	88.73
33	52.855104	-1.214613	86.27	2.80	89.07
34	52.855273	-1.215471	85.97	2.80	88.77
35	52.855545	-1.216244	86.11	2.80	88.91
36	52.855985	-1.216619	86.33	2.80	89.13
37	52.856554	-1.216551	86.52	2.80	89.32
38	52.857007	-1.215735	84.90	2.80	87.70
39	52.857201	-1.216057	84.81	2.80	87.61
40	52.856787	-1.216723	86.58	2.80	89.38
41	52.856955	-1.216937	86.63	2.80	89.43
42	52.857694	-1.216701	81.71	2.80	84.51
43	52.858821	-1.218031	78.47	2.80	81.27
44	52.858225	-1.219319	86.14	2.80	88.94
45	52.858277	-1.219855	85.88	2.80	88.68
46	52.858173	-1.220842	86.53	2.80	89.33
47	52.857188	-1.223202	86.58	2.80	89.38
48	52.858031	-1.224082	87.46	2.80	90.26
49	52.857661	-1.224672	87.59	2.80	90.39
50	52.857532	-1.225155	86.72	2.80	89.52
51	52.857234	-1.225734	86.78	2.80	89.58

Discrete Observation Receptors

Number	Latitude	Longitude	Ground elevation	Height above ground	Total Elevation
	deg	deg	m	m	m
OP 1	52.849245	-1.179697	45.47	2.75	48.22
OP 2	52.847405	-1.180577	46.34	2.75	49.09
OP 3	52.845643	-1.181392	48.23	2.75	50.98
OP 4	52.844062	-1.182164	48.89	2.75	51.64
OP 5	52.842247	-1.183044	51.55	2.75	54.30
OP 6	52.840627	-1.183817	53.49	2.75	56.24
OP 7	52.838838	-1.184675	51.93	2.75	54.68
OP 8	52.837218	-1.185451	52.06	2.75	54.81
OP 9	52.835247	-1.186567	53.97	2.75	56.72

Summary of PV Glare Analysis

PV configuration and total predicted glare

PV Name	Tilt	Orientation	"Green" Glare	"Yellow" Glare	Energy Produced	Data File
	deg	deg	min	min	kWh	
Central PV Array	40.0	180.0	1,753	18,815	-	-
Eastern PV Array	40.0	180.0	307	13,643	-	-
Southern PV Array	40.0	180.0	2,156	16,123	-	-
Western PV Array	40.0	180.0	2,488	8,435	-	-

Distinct glare per month

Excludes overlapping glare from PV array for multiple receptors at matching time(s)

PV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
central-pv-a (green)	0	0	43	54	0	60	10	15	82	0	0	0
central-pv-a (yellow)	0	0	40	720	915	811	899	887	209	0	0	0
eastern-pv-a (green)	0	0	5	5	0	0	0	1	10	0	0	0
eastern-pv-a (yellow)	0	0	17	659	941	956	969	868	150	0	0	0
southern-pv (green)	0	0	73	76	51	298	145	32	121	0	0	0
southern-pv (yellow)	0	0	37	824	1124	764	1008	1081	217	0	0	0
western-pv-a (green)	0	0	7	33	20	208	86	2	37	0	0	0
western-pv-a (yellow)	0	0	13	573	678	278	537	703	148	0	0	0

PV & Receptor Analysis Results

Results for each PV array and receptor

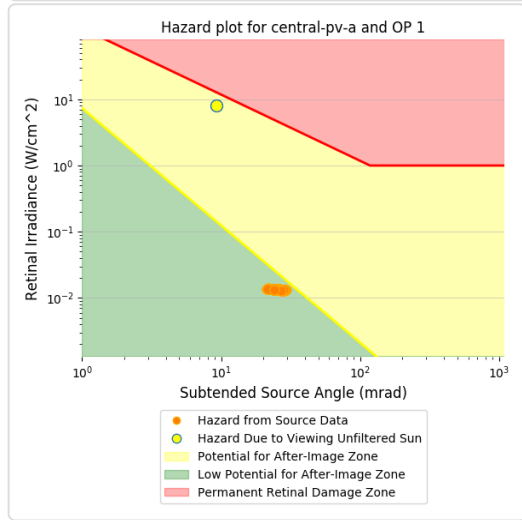
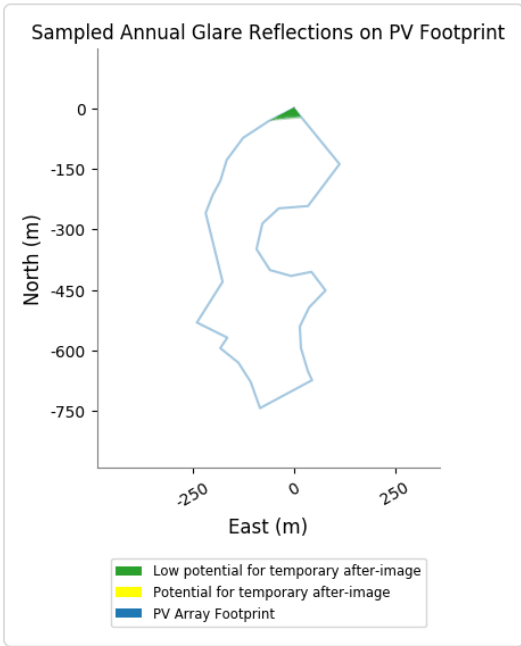
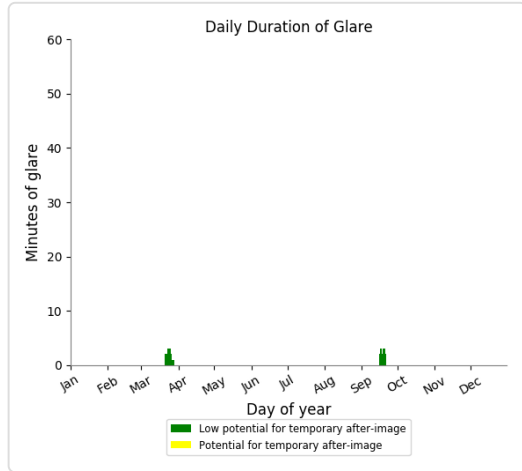
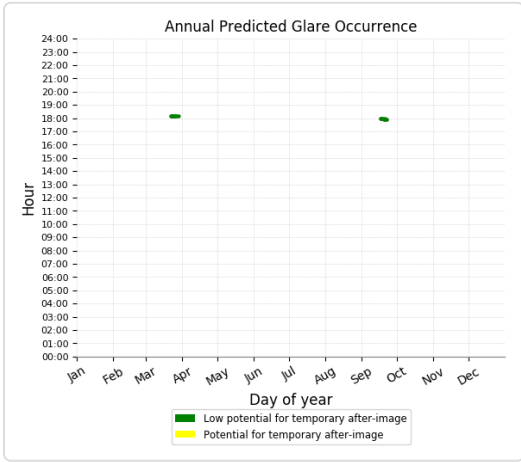
Central PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	32	0
OP: OP 2	266	591
OP: OP 3	284	1869
OP: OP 4	252	4140
OP: OP 5	399	4176
OP: OP 6	309	3921
OP: OP 7	141	2847
OP: OP 8	70	1271
OP: OP 9	0	0

Central PV Array - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

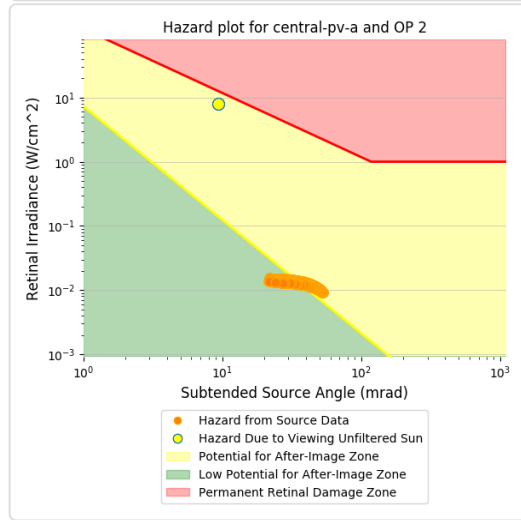
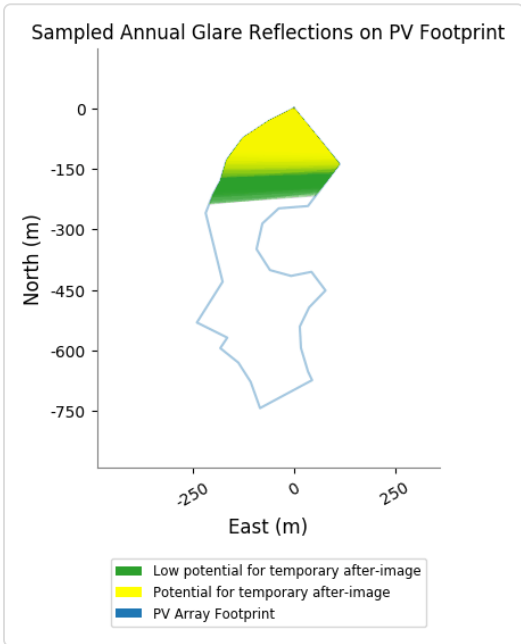
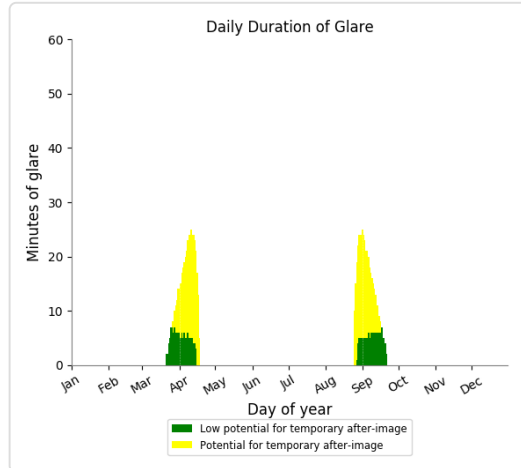
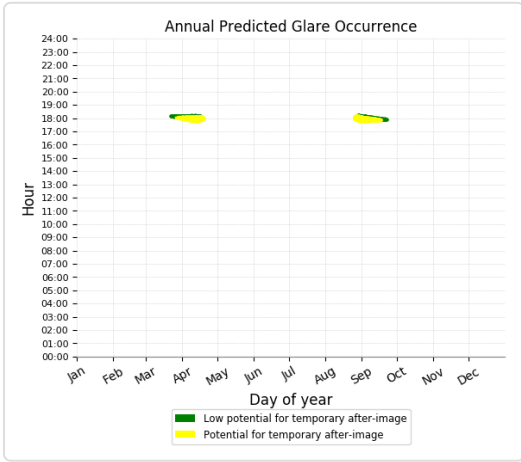
- 32 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

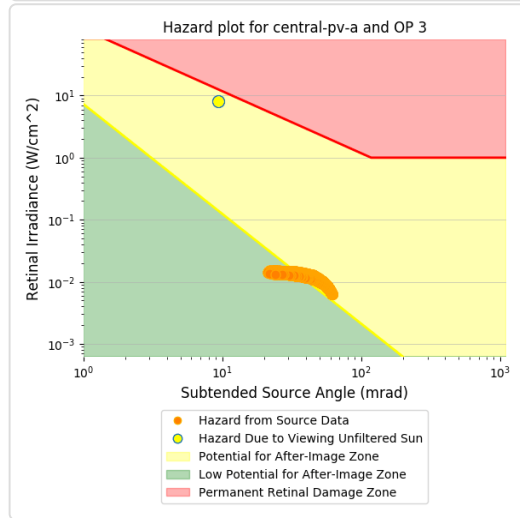
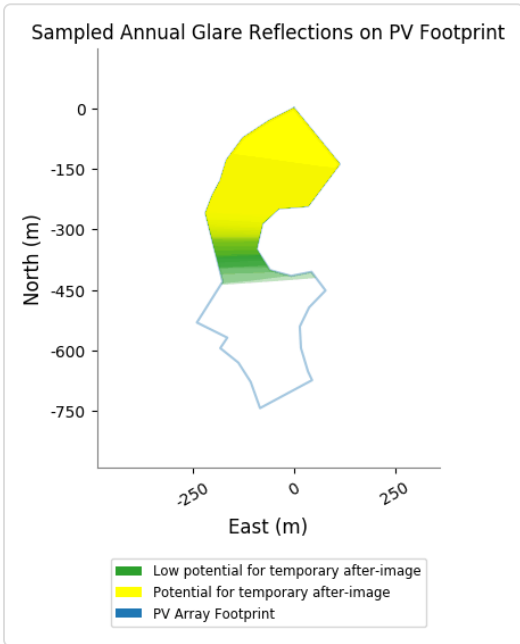
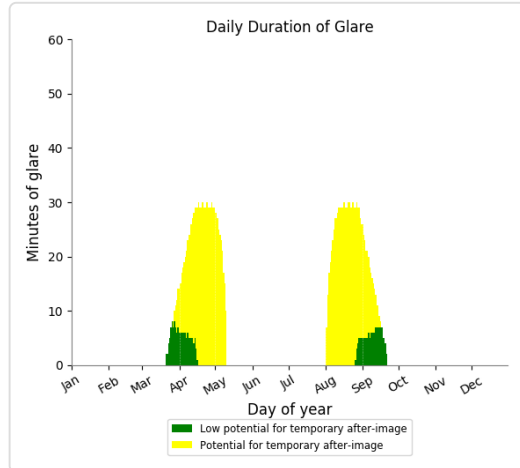
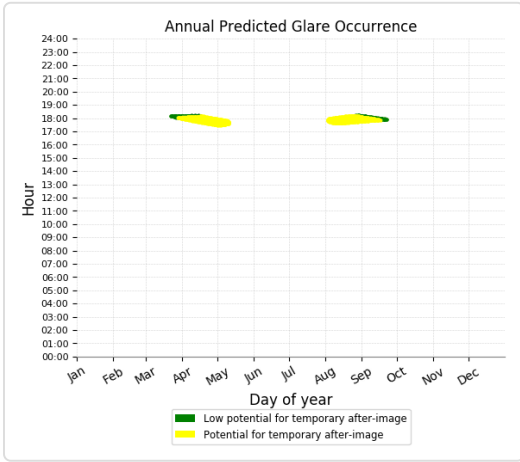
- 266 minutes of "green" glare with low potential to cause temporary after-image.
- 591 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

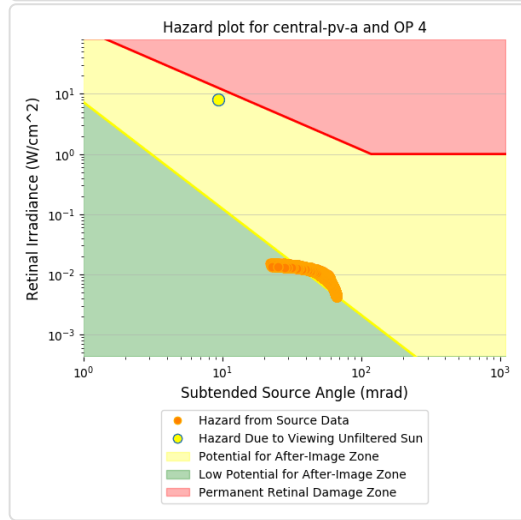
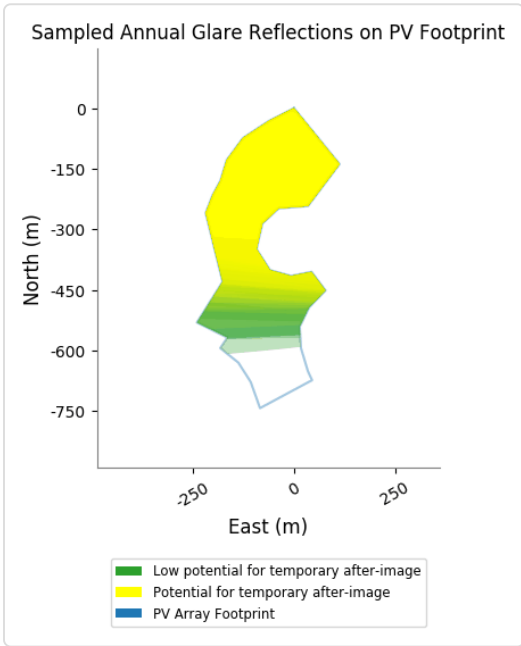
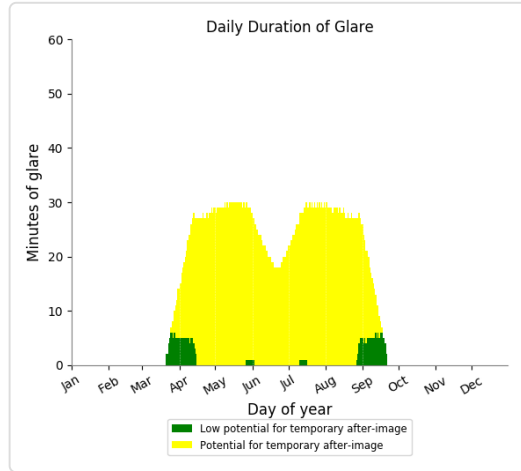
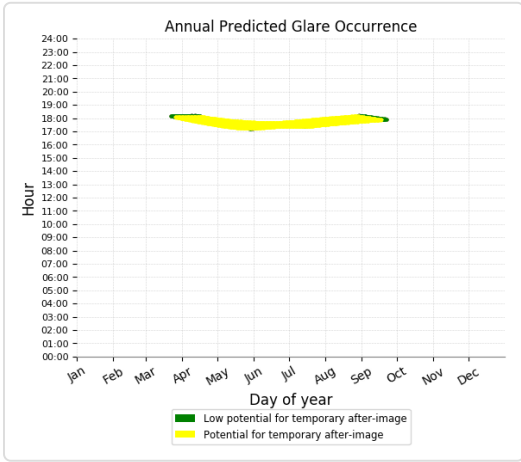
- 284 minutes of "green" glare with low potential to cause temporary after-image.
- 1,869 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

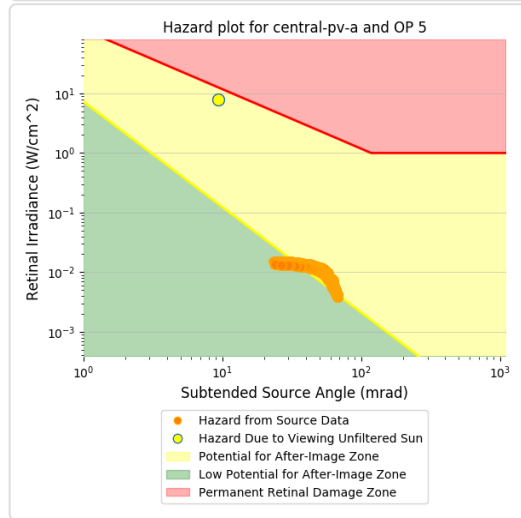
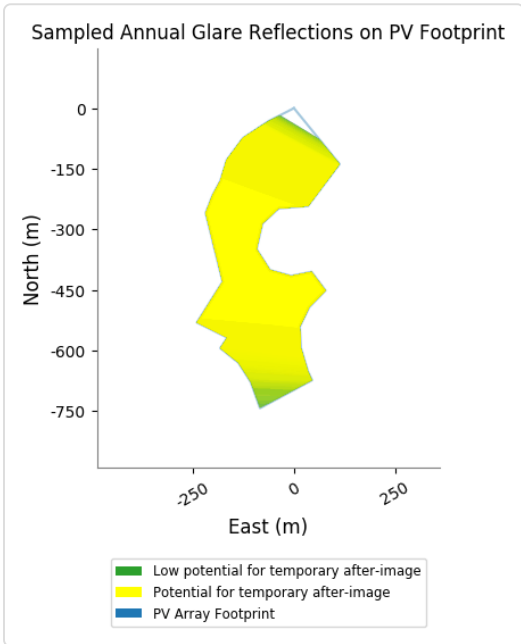
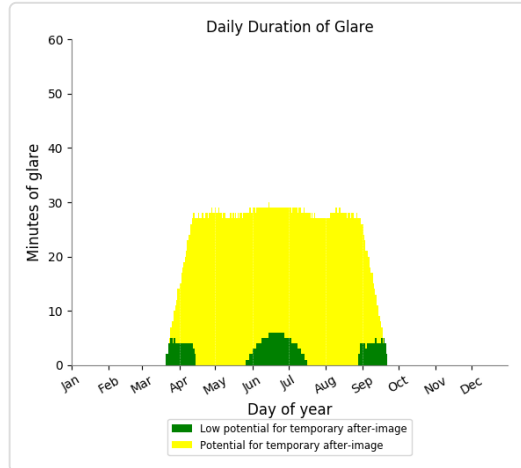
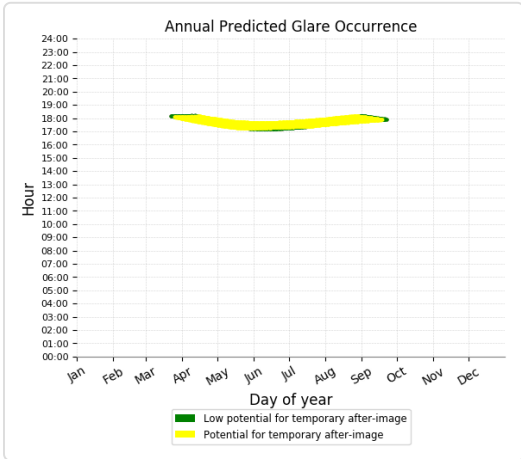
- 252 minutes of "green" glare with low potential to cause temporary after-image.
- 4,140 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

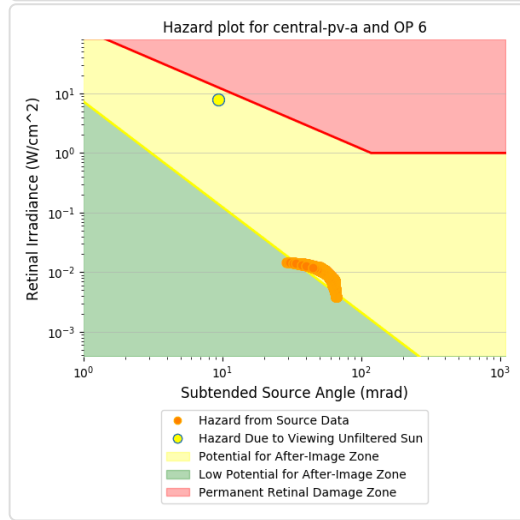
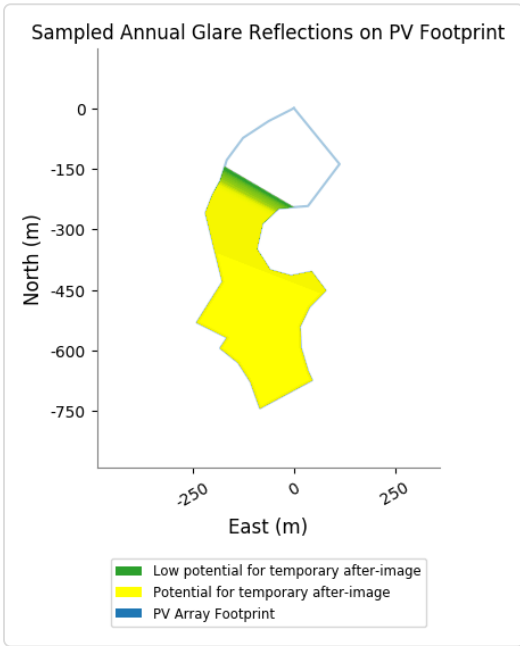
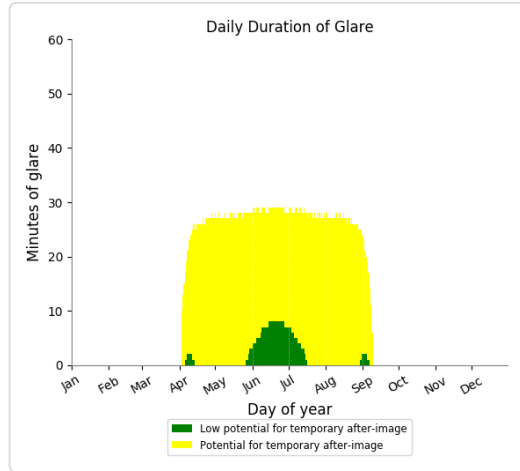
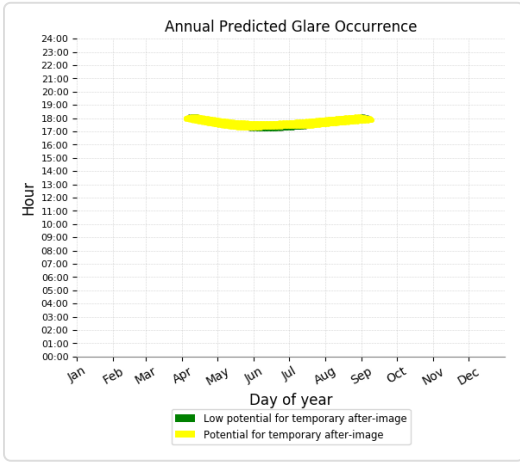
- 399 minutes of "green" glare with low potential to cause temporary after-image.
- 4,176 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

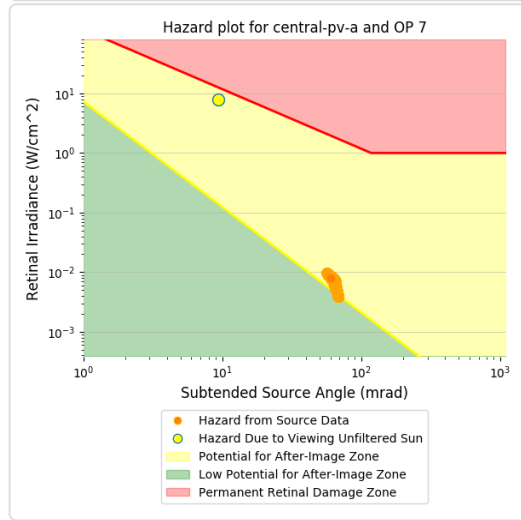
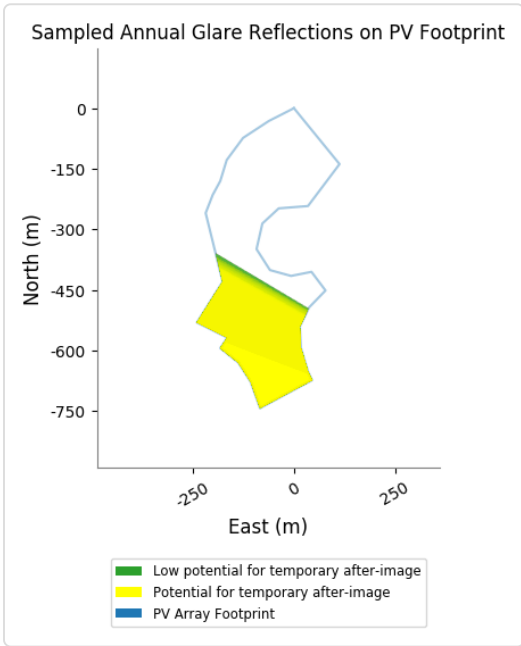
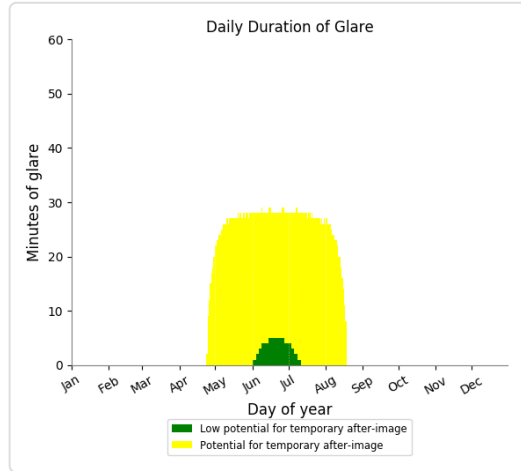
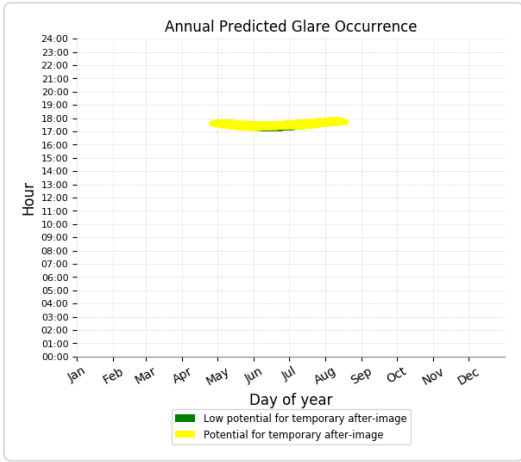
- 309 minutes of "green" glare with low potential to cause temporary after-image.
- 3,921 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 7)

PV array is expected to produce the following glare for receptors at this location:

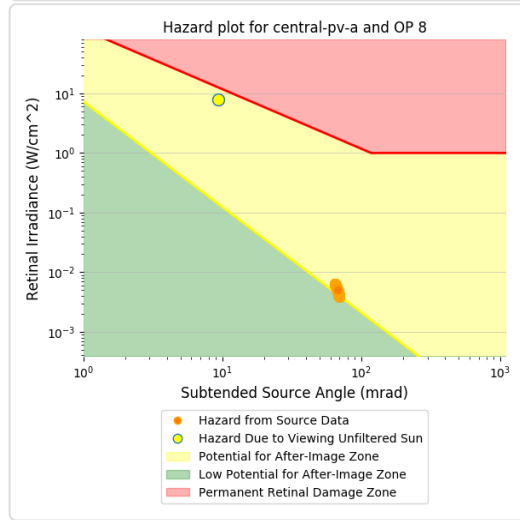
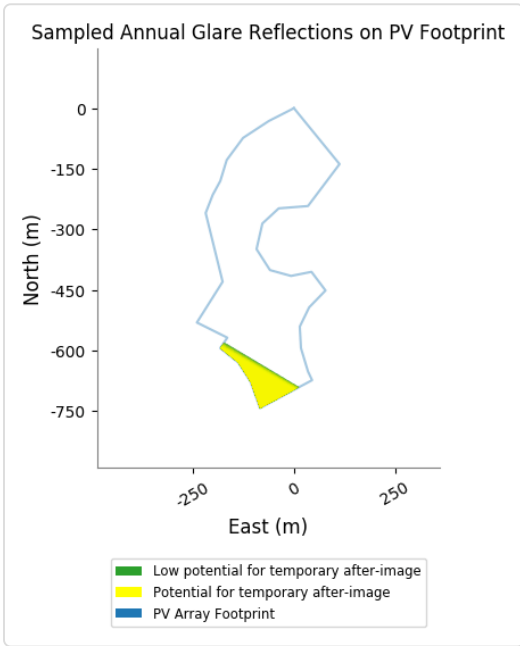
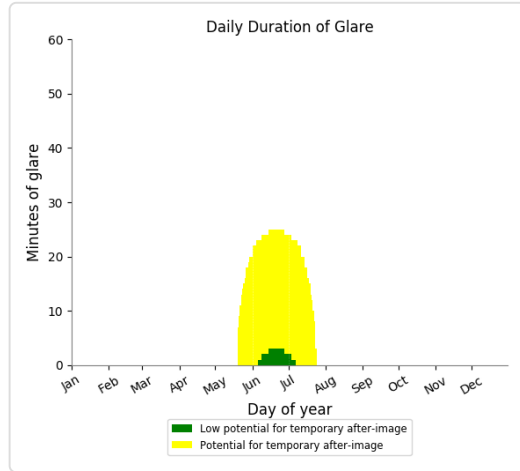
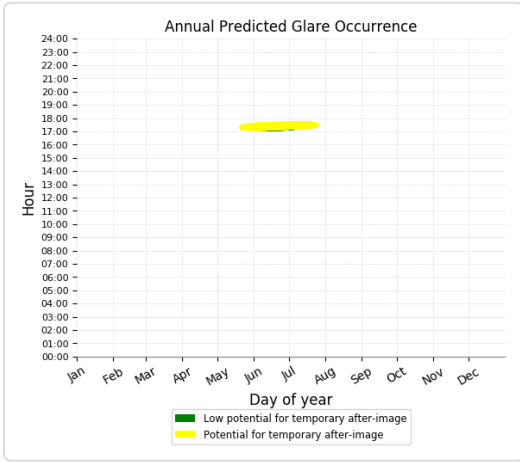
- 141 minutes of "green" glare with low potential to cause temporary after-image.
- 2,847 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 8)

PV array is expected to produce the following glare for receptors at this location:

- 70 minutes of "green" glare with low potential to cause temporary after-image.
- 1,271 minutes of "yellow" glare with potential to cause temporary after-image.



Central PV Array - OP Receptor (OP 9)

No glare found

Eastern PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	159	659
OP: OP 3	112	2333
OP: OP 4	33	4065
OP: OP 5	3	4433
OP: OP 6	0	2153
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0

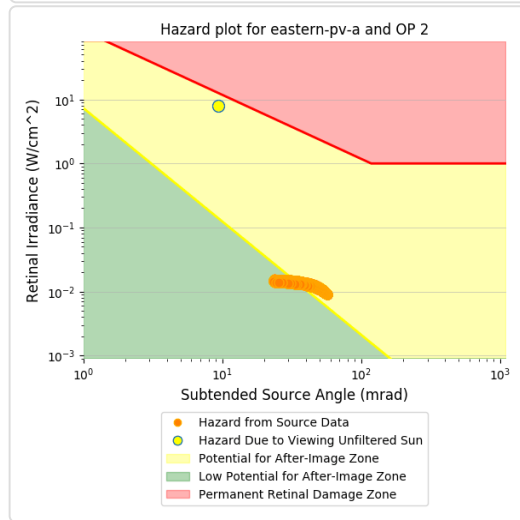
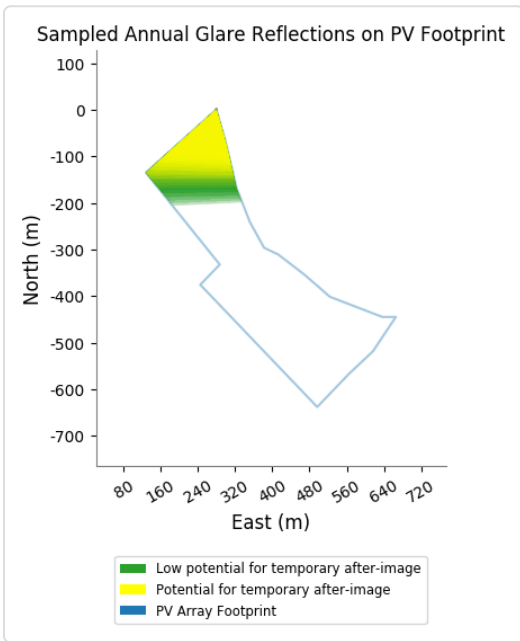
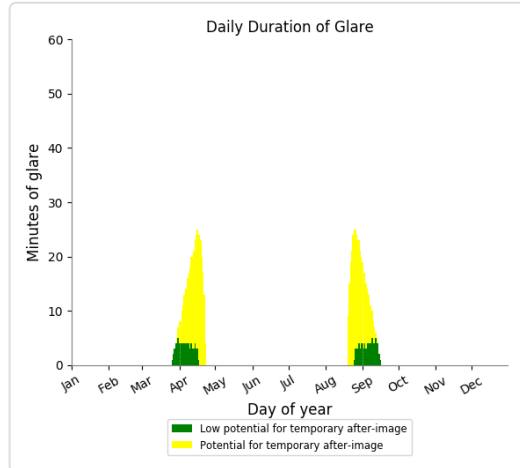
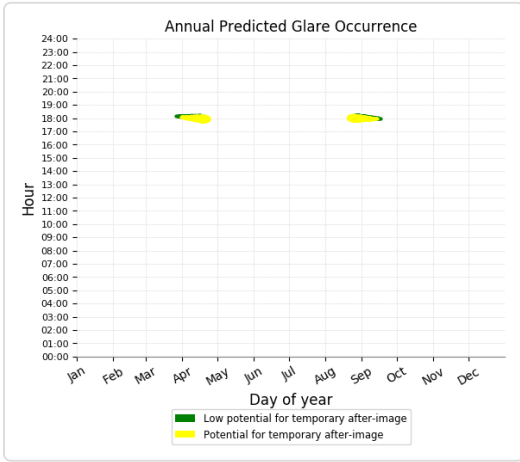
Eastern PV Array - OP Receptor (OP 1)

No glare found

Eastern PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

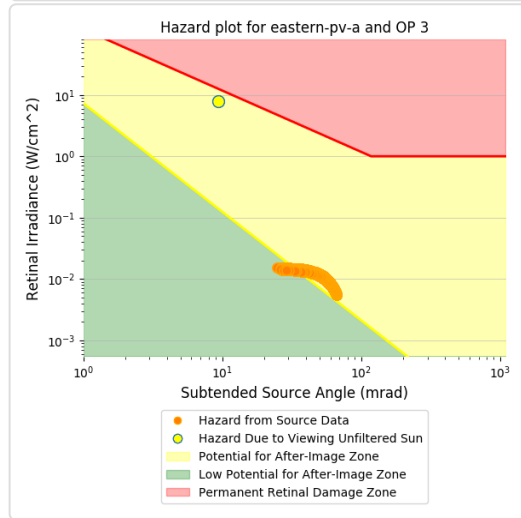
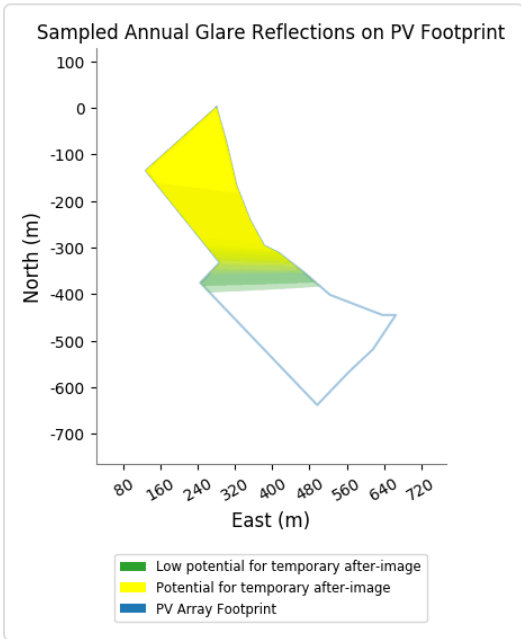
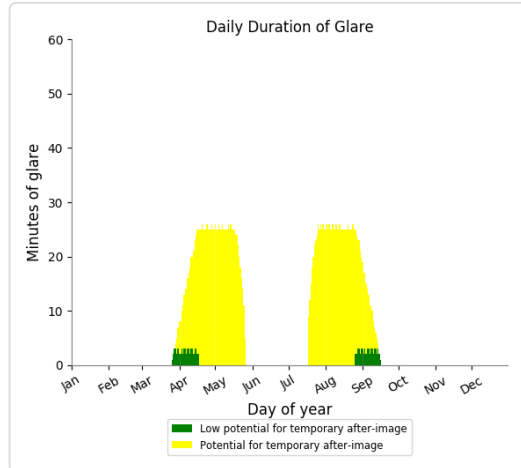
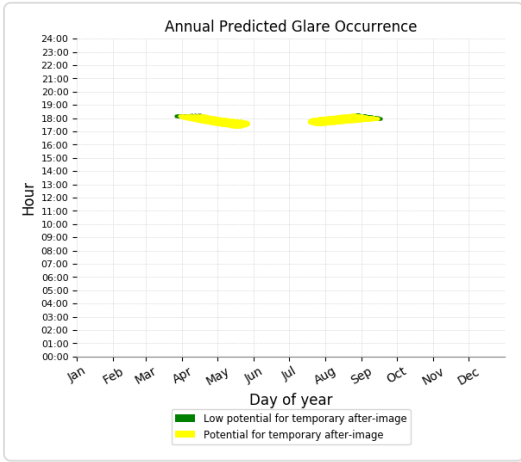
- 159 minutes of "green" glare with low potential to cause temporary after-image.
- 659 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

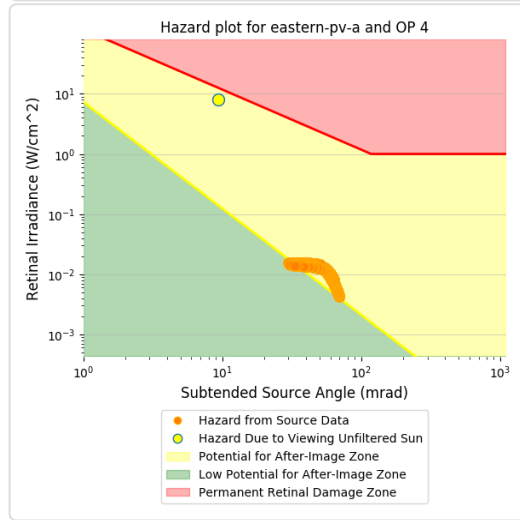
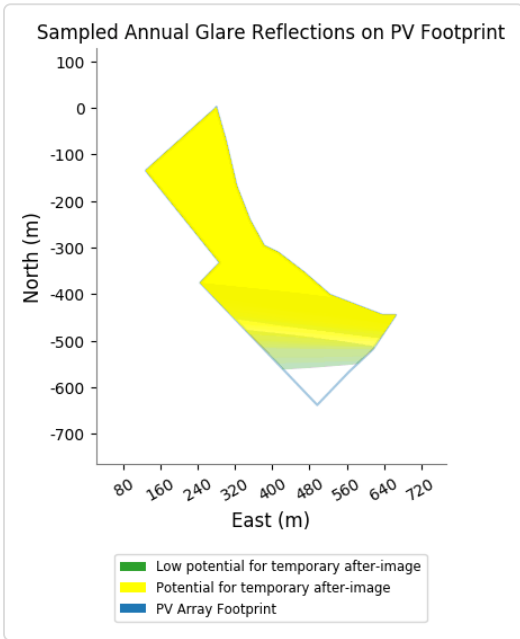
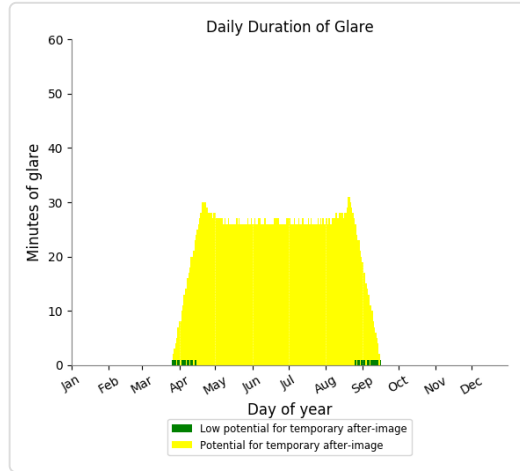
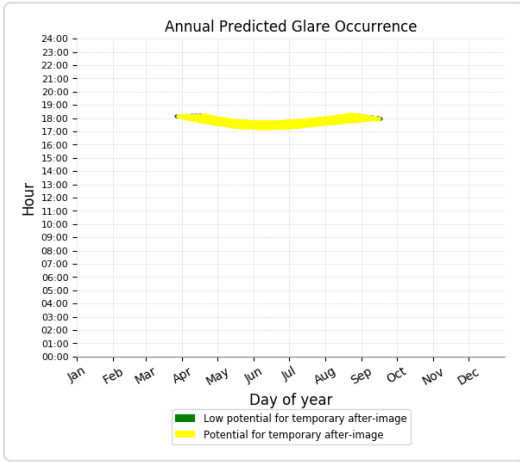
- 112 minutes of "green" glare with low potential to cause temporary after-image.
- 2,333 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

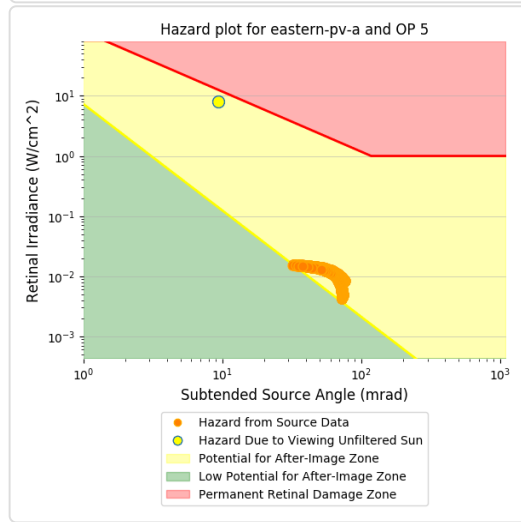
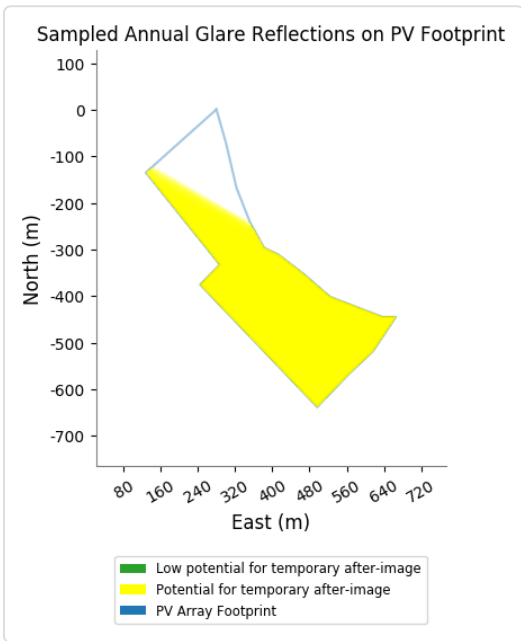
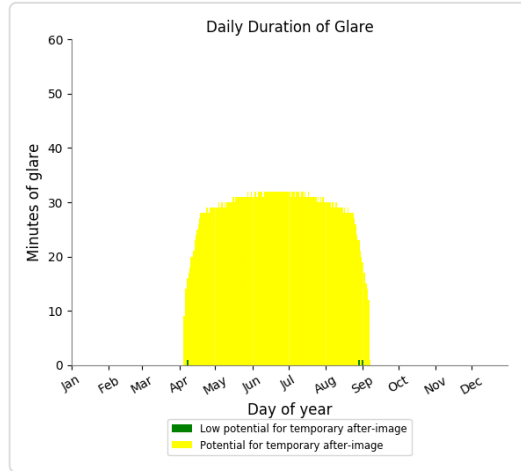
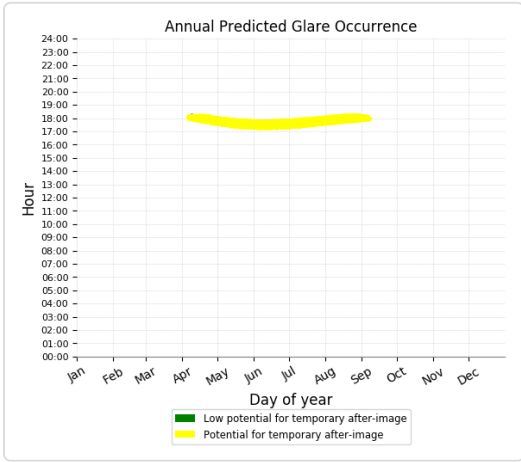
- 33 minutes of "green" glare with low potential to cause temporary after-image.
- 4,065 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

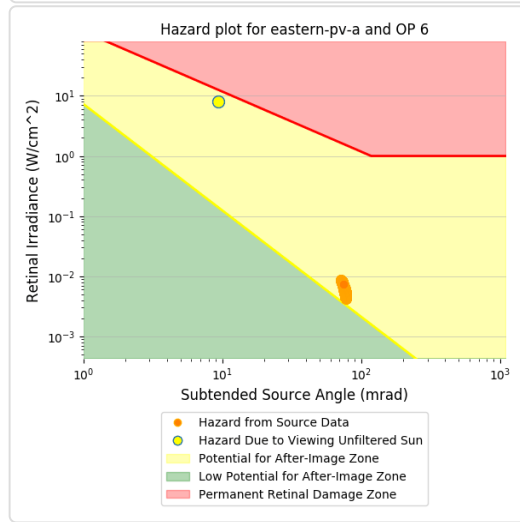
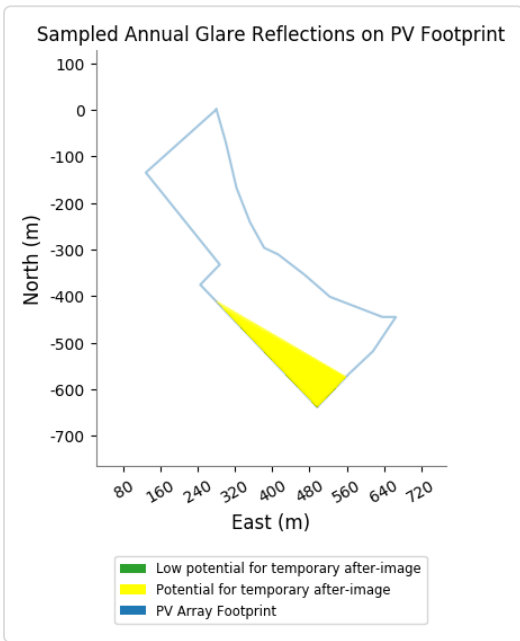
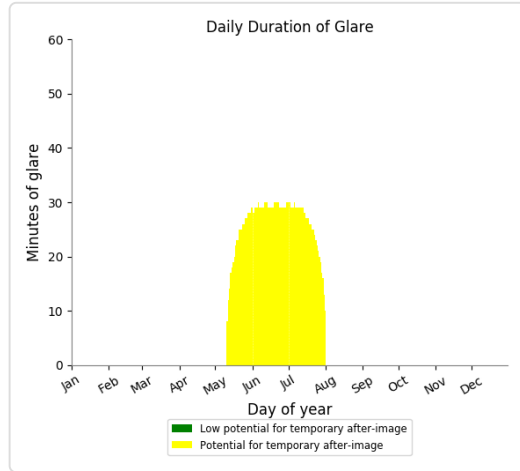
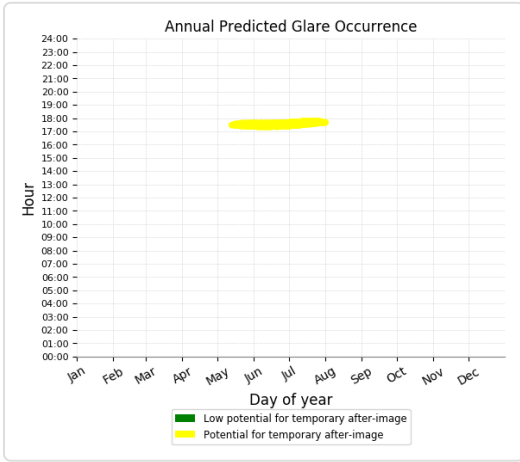
- 3 minutes of "green" glare with low potential to cause temporary after-image.
- 4,433 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

- 0 minutes of "green" glare with low potential to cause temporary after-image.
- 2,153 minutes of "yellow" glare with potential to cause temporary after-image.



Eastern PV Array - OP Receptor (OP 7)

No glare found

Eastern PV Array - OP Receptor (OP 8)

No glare found

Eastern PV Array - OP Receptor (OP 9)

No glare found

Southern PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	0	0
OP: OP 2	0	0
OP: OP 3	0	0
OP: OP 4	0	0
OP: OP 5	227	1391
OP: OP 6	295	5209
OP: OP 7	579	5191
OP: OP 8	539	3851

Southern PV Array - OP Receptor (OP 1)

No glare found

Southern PV Array - OP Receptor (OP 2)

No glare found

Southern PV Array - OP Receptor (OP 3)

No glare found

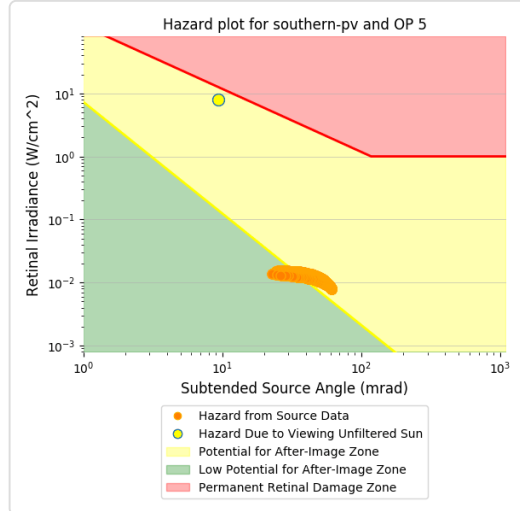
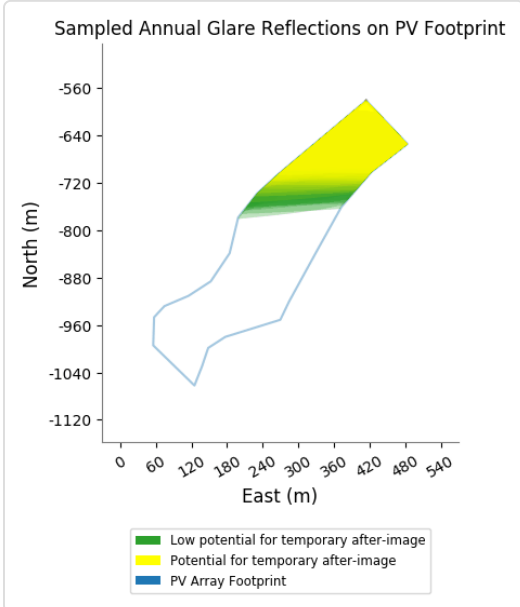
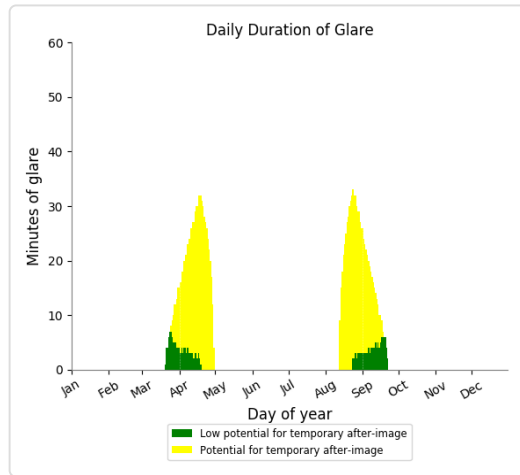
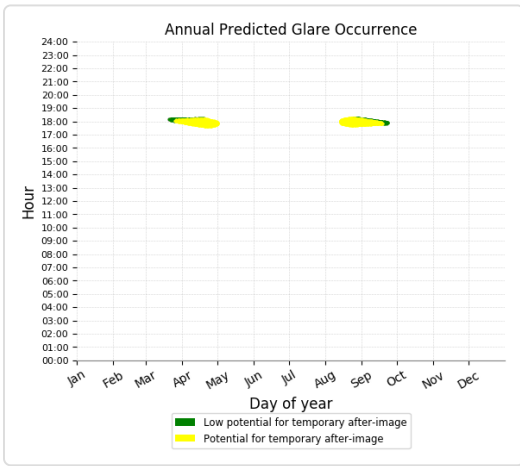
Southern PV Array - OP Receptor (OP 4)

No glare found

Southern PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

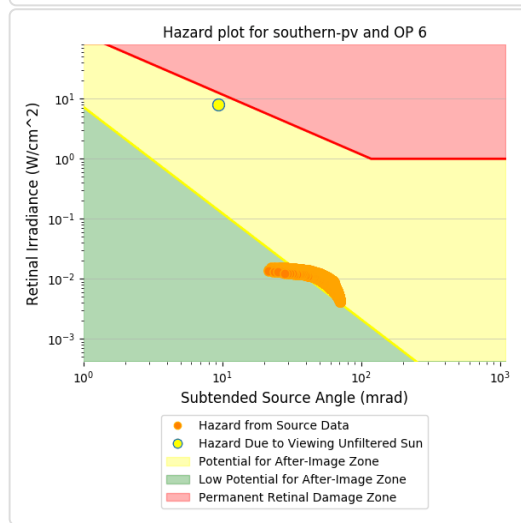
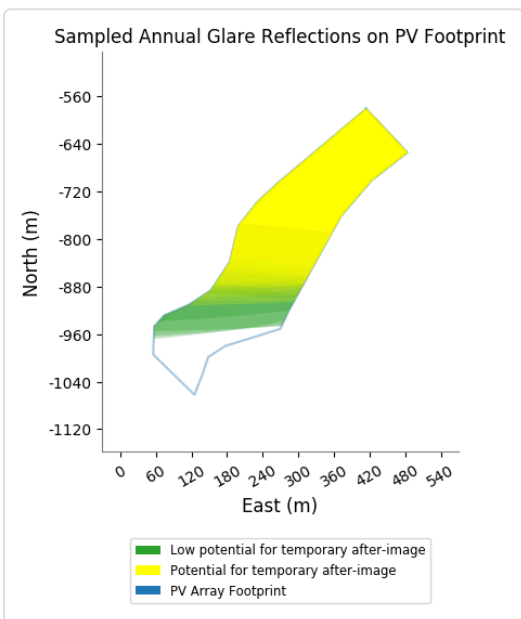
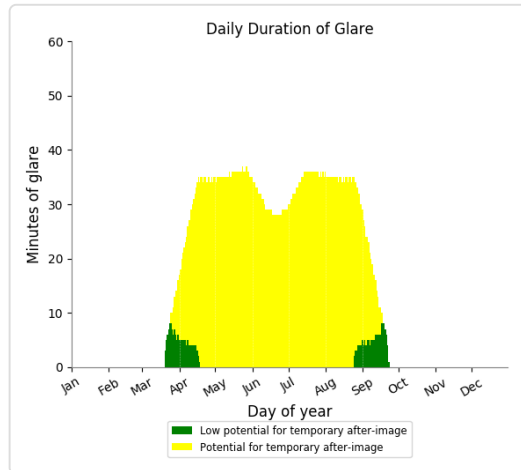
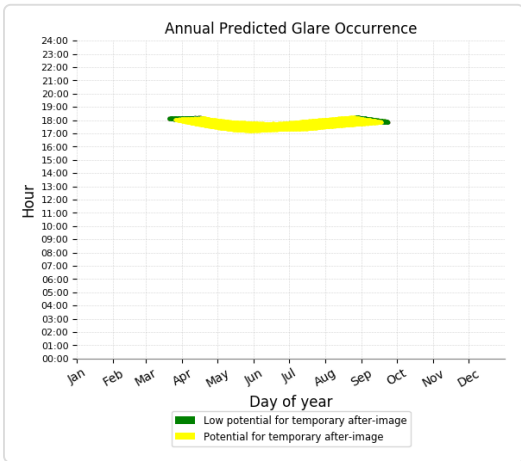
- 227 minutes of "green" glare with low potential to cause temporary after-image.
- 1,391 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 6)

PV array is expected to produce the following glare for receptors at this location:

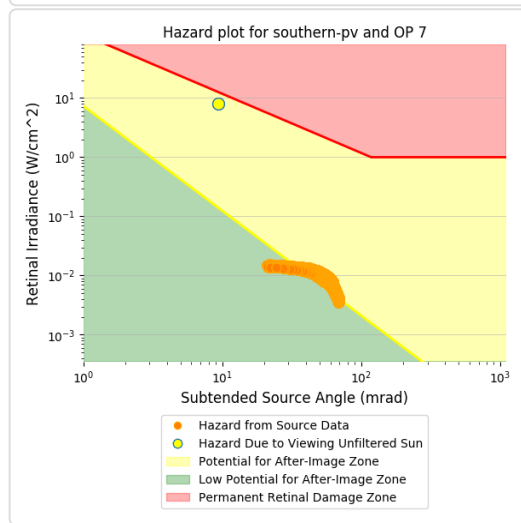
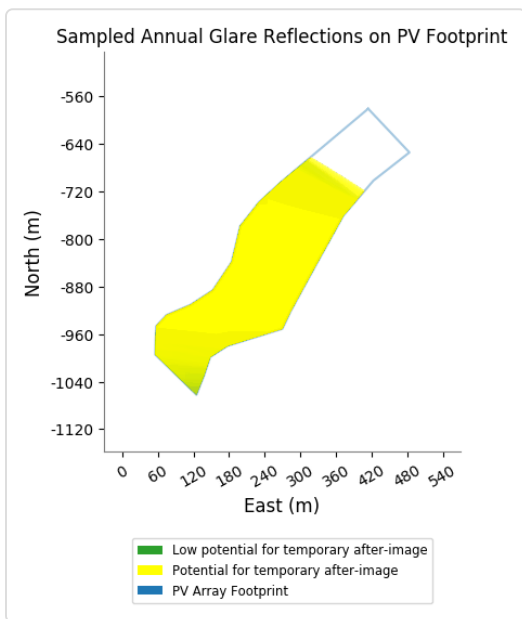
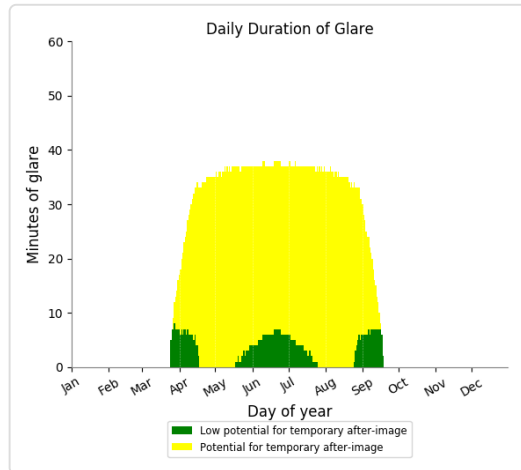
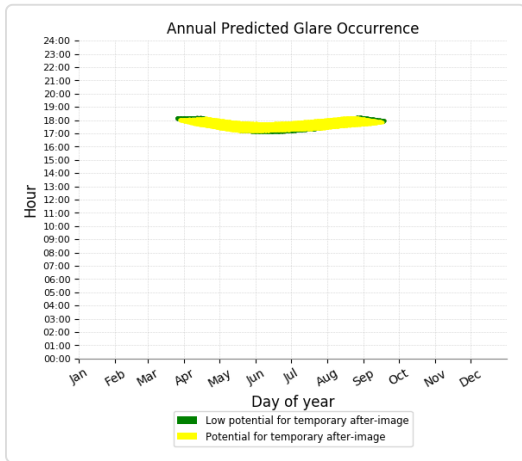
- 295 minutes of "green" glare with low potential to cause temporary after-image.
- 5,209 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 7)

PV array is expected to produce the following glare for receptors at this location:

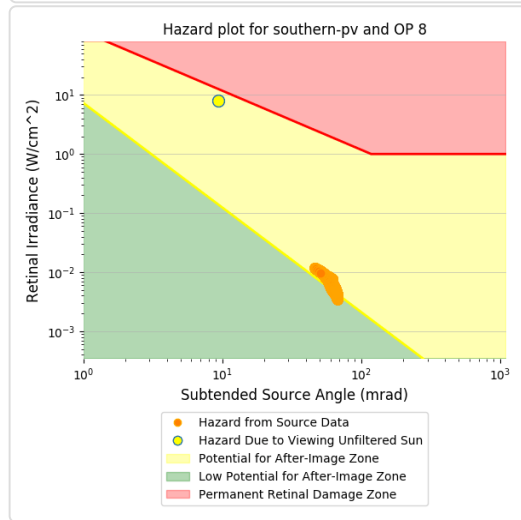
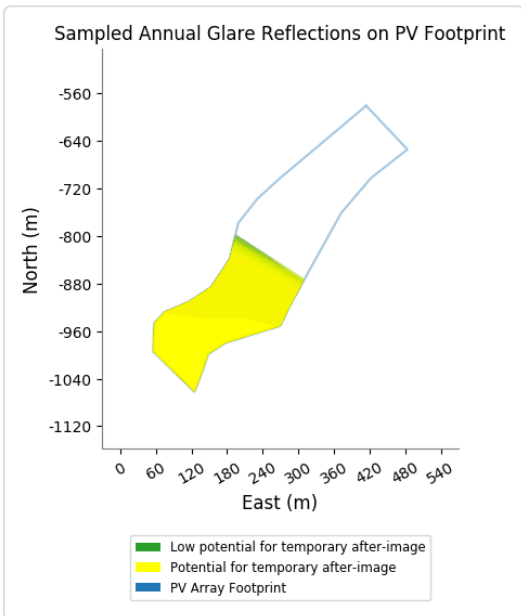
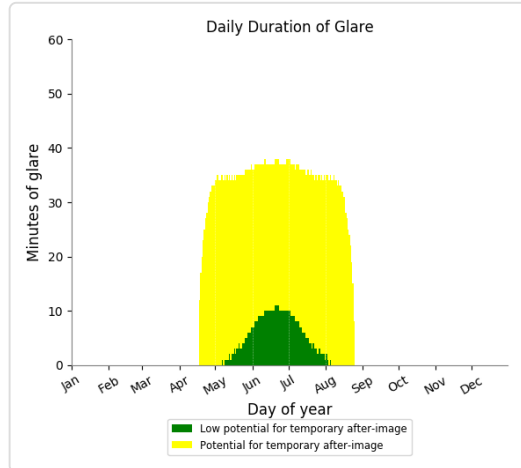
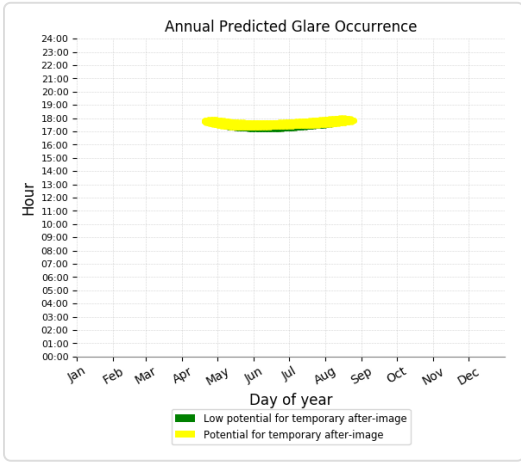
- 579 minutes of "green" glare with low potential to cause temporary after-image.
- 5,191 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 8)

PV array is expected to produce the following glare for receptors at this location:

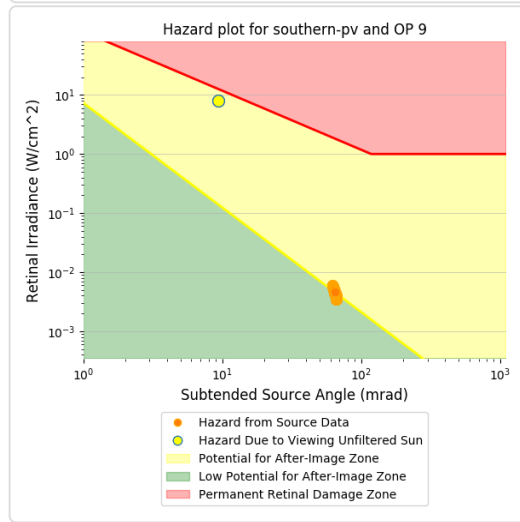
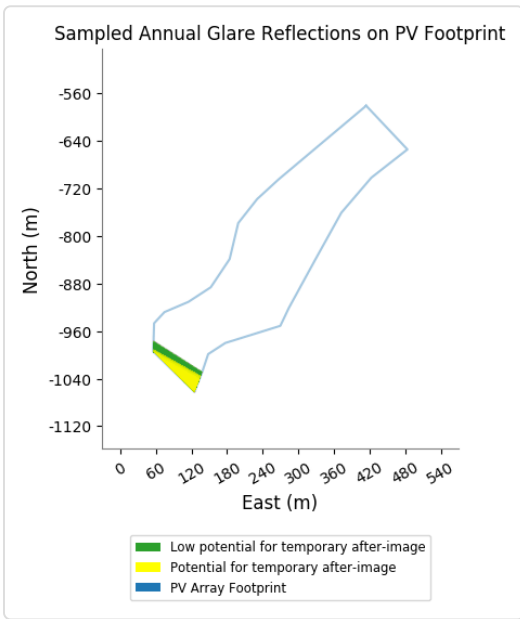
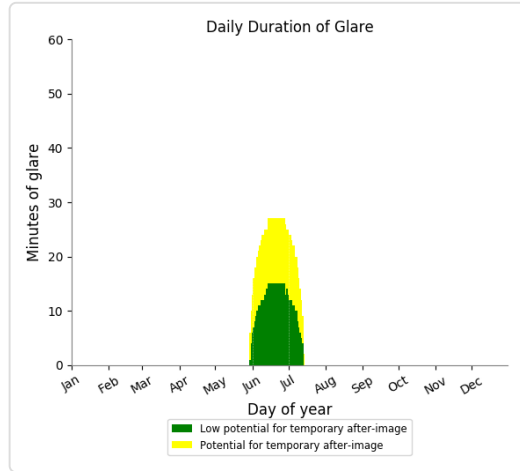
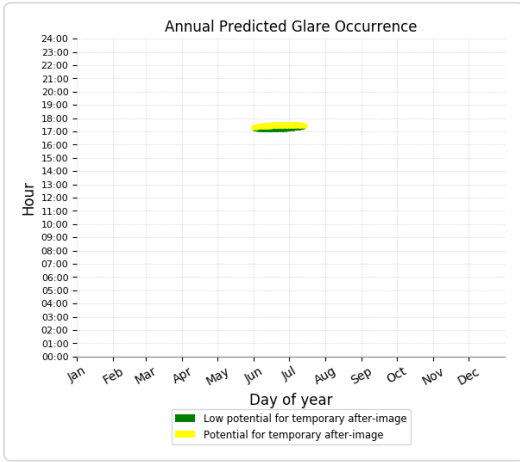
- 539 minutes of "green" glare with low potential to cause temporary after-image.
- 3,851 minutes of "yellow" glare with potential to cause temporary after-image.



Southern PV Array - OP Receptor (OP 9)

PV array is expected to produce the following glare for receptors at this location:

- 516 minutes of "green" glare with low potential to cause temporary after-image.
- 481 minutes of "yellow" glare with potential to cause temporary after-image.



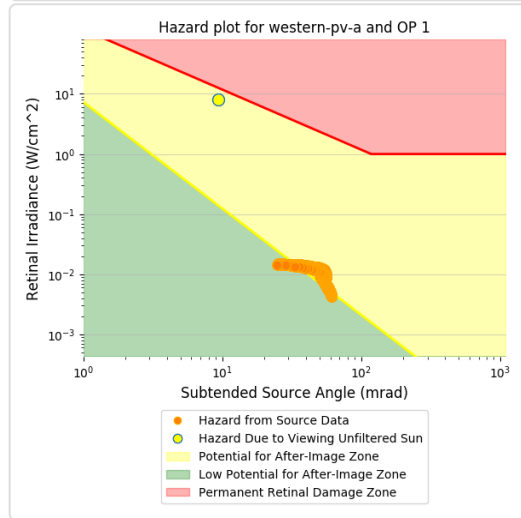
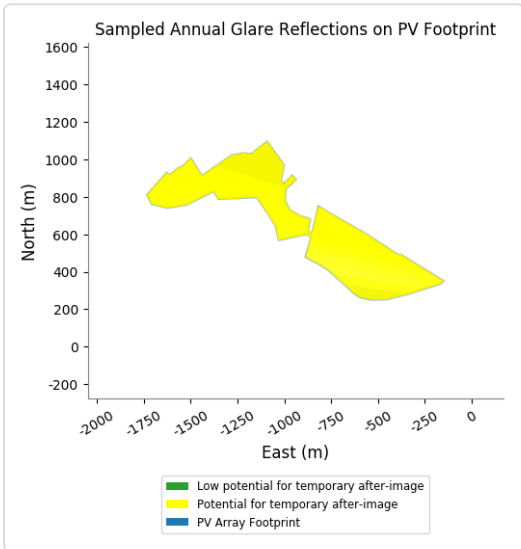
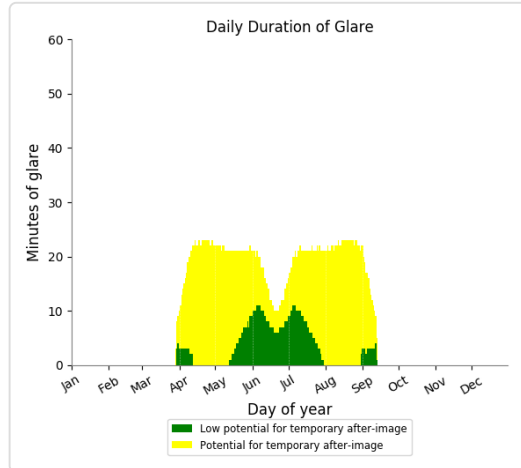
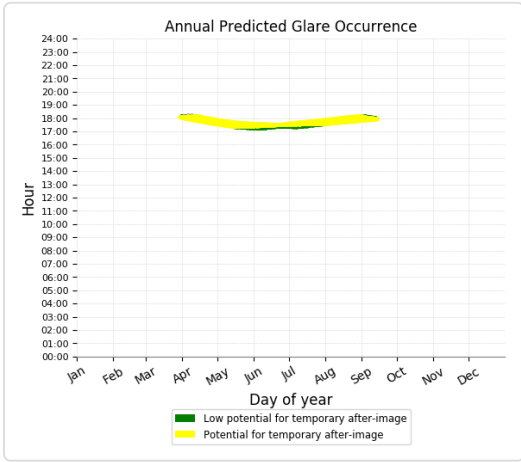
Western PV Array potential temporary after-image

Component	Green glare (min)	Yellow glare (min)
OP: OP 1	635	2609
OP: OP 2	602	2392
OP: OP 3	276	2129
OP: OP 4	319	1305
OP: OP 5	656	0
OP: OP 6	0	0
OP: OP 7	0	0
OP: OP 8	0	0
OP: OP 9	0	0

Western PV Array - OP Receptor (OP 1)

PV array is expected to produce the following glare for receptors at this location:

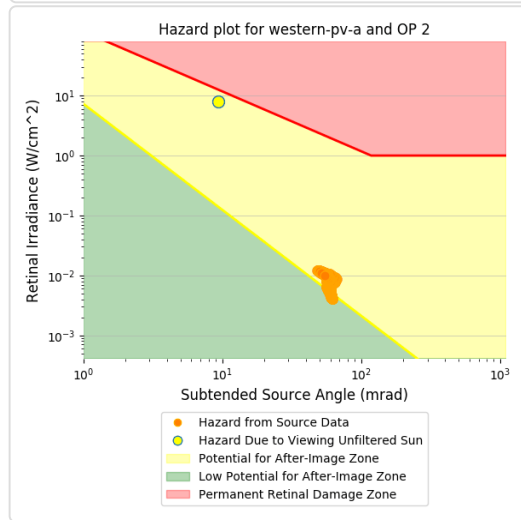
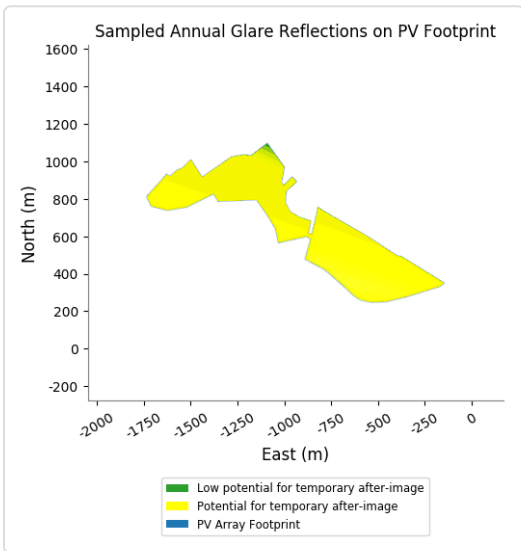
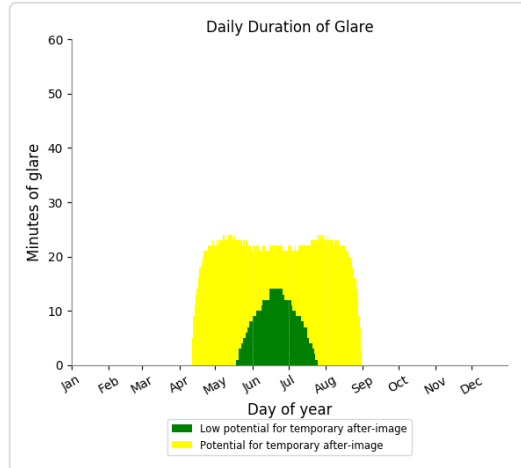
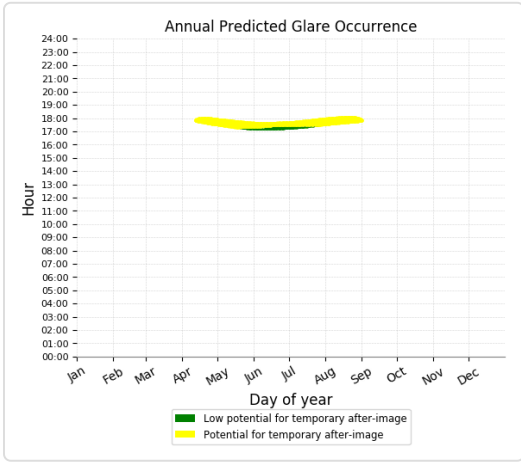
- 635 minutes of "green" glare with low potential to cause temporary after-image.
- 2,609 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 2)

PV array is expected to produce the following glare for receptors at this location:

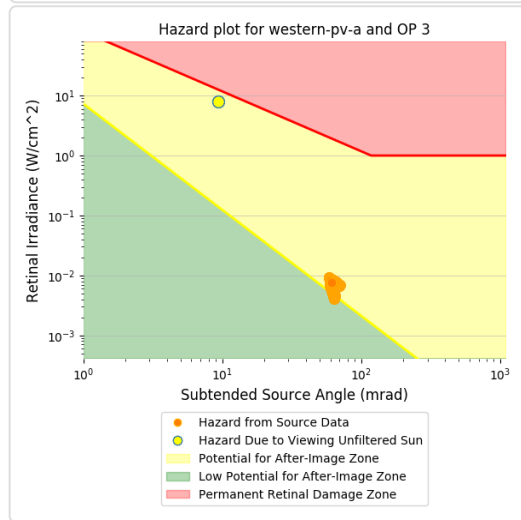
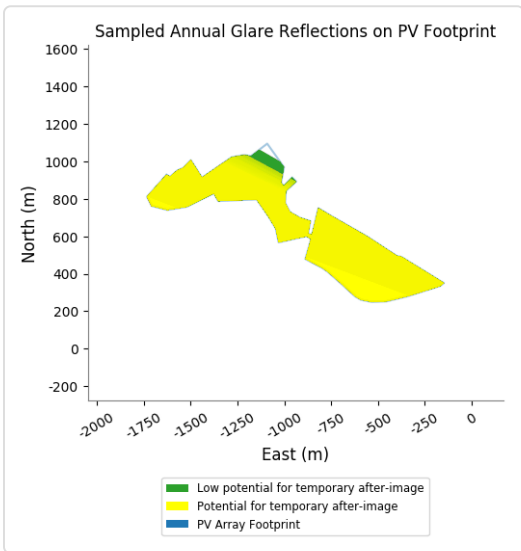
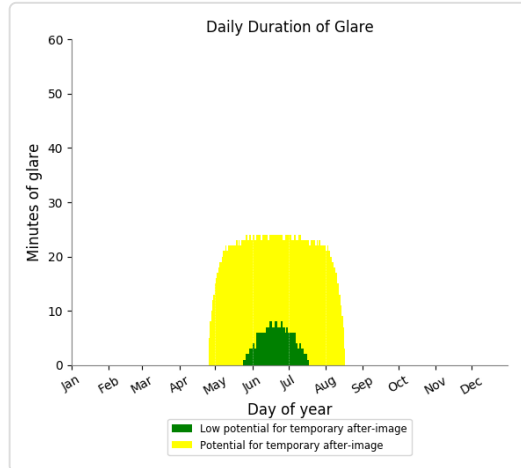
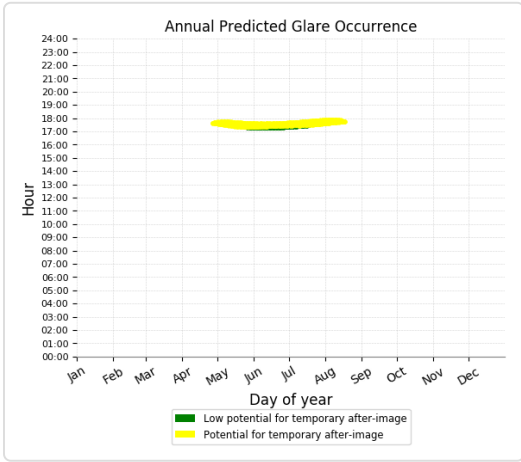
- 602 minutes of "green" glare with low potential to cause temporary after-image.
- 2,392 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 3)

PV array is expected to produce the following glare for receptors at this location:

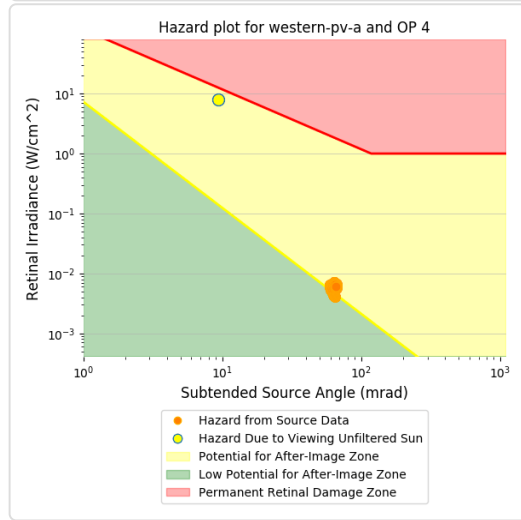
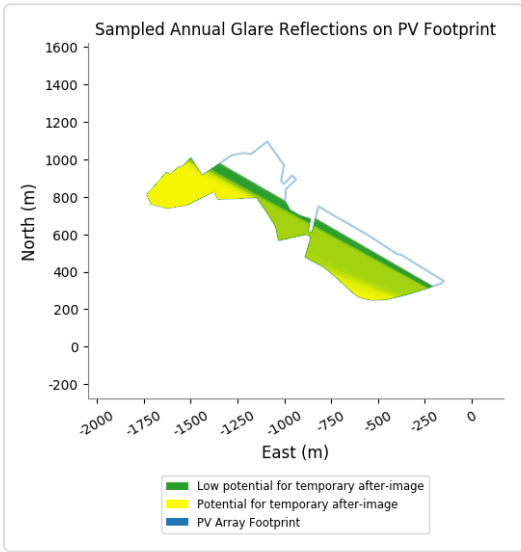
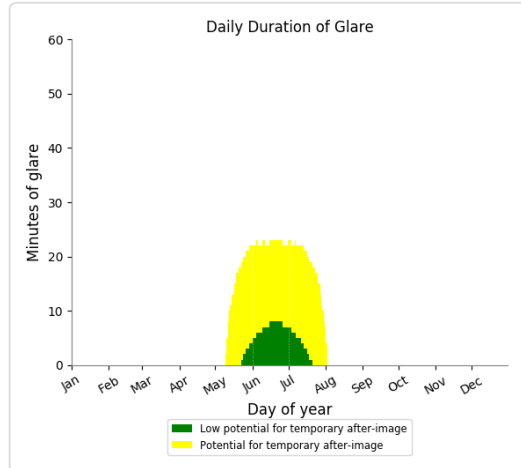
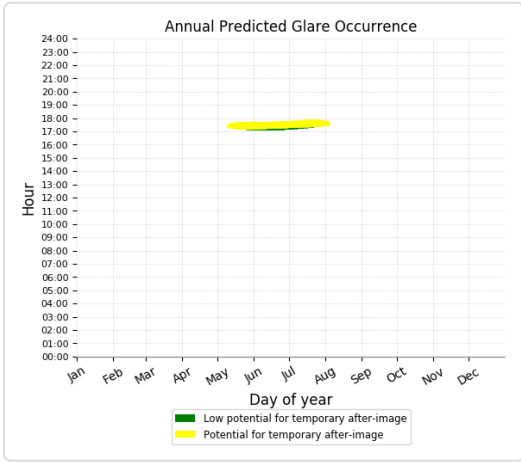
- 276 minutes of "green" glare with low potential to cause temporary after-image.
- 2,129 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 4)

PV array is expected to produce the following glare for receptors at this location:

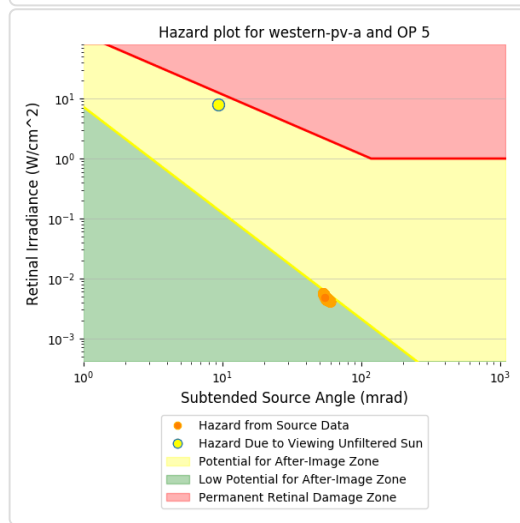
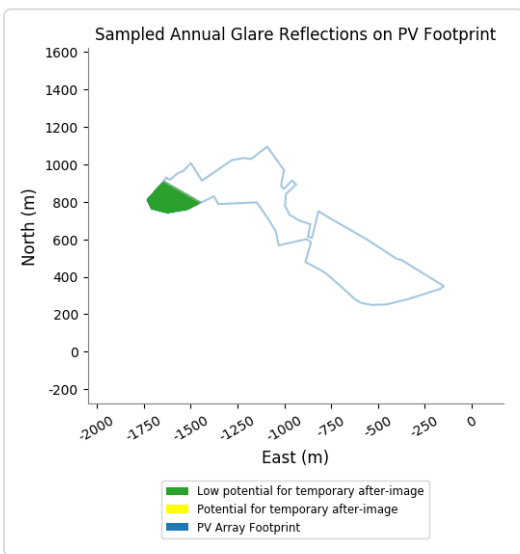
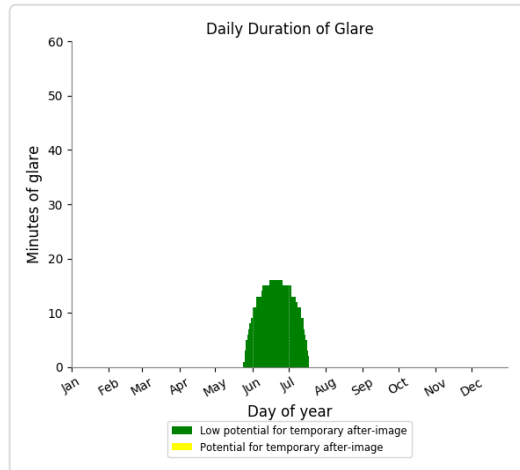
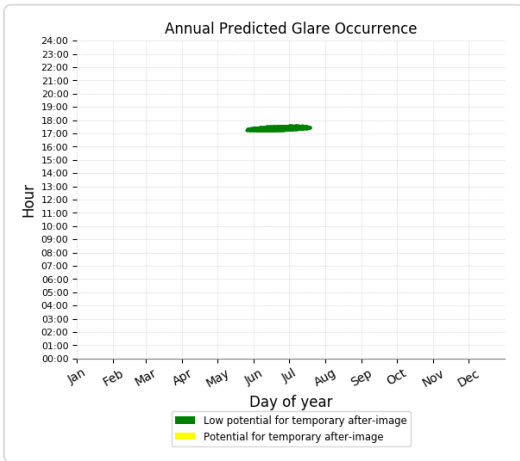
- 319 minutes of "green" glare with low potential to cause temporary after-image.
- 1,305 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 5)

PV array is expected to produce the following glare for receptors at this location:

- 656 minutes of "green" glare with low potential to cause temporary after-image.
- 0 minutes of "yellow" glare with potential to cause temporary after-image.



Western PV Array - OP Receptor (OP 6)

No glare found

Western PV Array - OP Receptor (OP 7)

No glare found

Western PV Array - OP Receptor (OP 8)

No glare found

Western PV Array - OP Receptor (OP 9)

No glare found

Assumptions

- Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
- Glare analyses do not account for physical obstructions between reflectors and receptors. This includes buildings, tree cover and geographic obstructions.
- Detailed system geometry is not rigorously simulated.
- The glare hazard determination relies on several approximations including observer eye characteristics, angle of view, and typical blink response time. Actual values and results may vary.
- 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.
- 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.
- 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.)
- Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
 - Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
 - Glare vector plots are simplified representations of analysis data. Actual glare emanations and results may differ.
 - Refer to the **Help page** for detailed assumptions and limitations not listed here.