

# BWI Baseline Assessment for Monthly Reporting: Draft Data Elements for review by DC Metroplex – BWI Community Roundtable’s Meeting on June 21, 2022

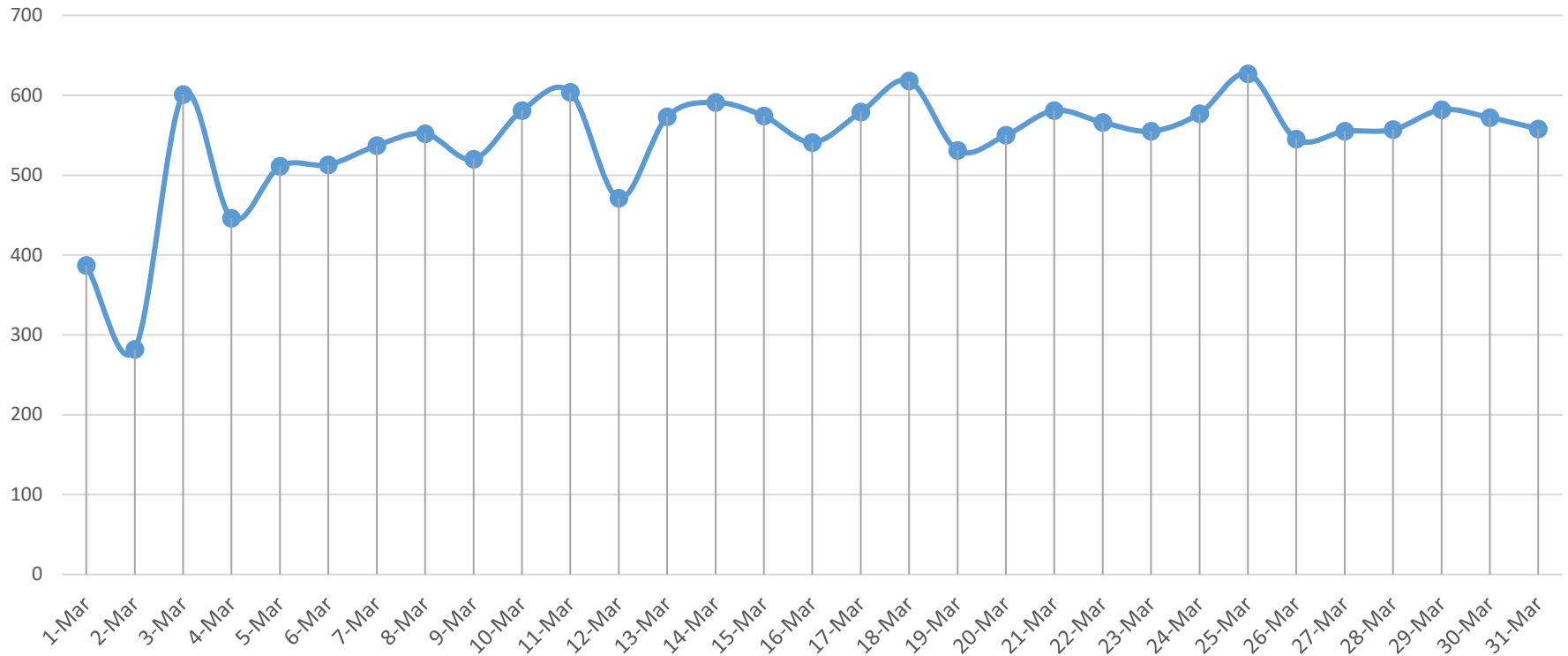
**DRAFT**

***Note:** The following slides are being presented prior to incorporation into the first monthly report focused on monitoring noise levels at BWI Thurgood Marshall Airport for the Month of March 2022. Based on input from the roundtable, these slides will be edited and incorporated into a more complete report with background information regarding the graphics in the report.*



# Total Operations

## Total Daily Operations

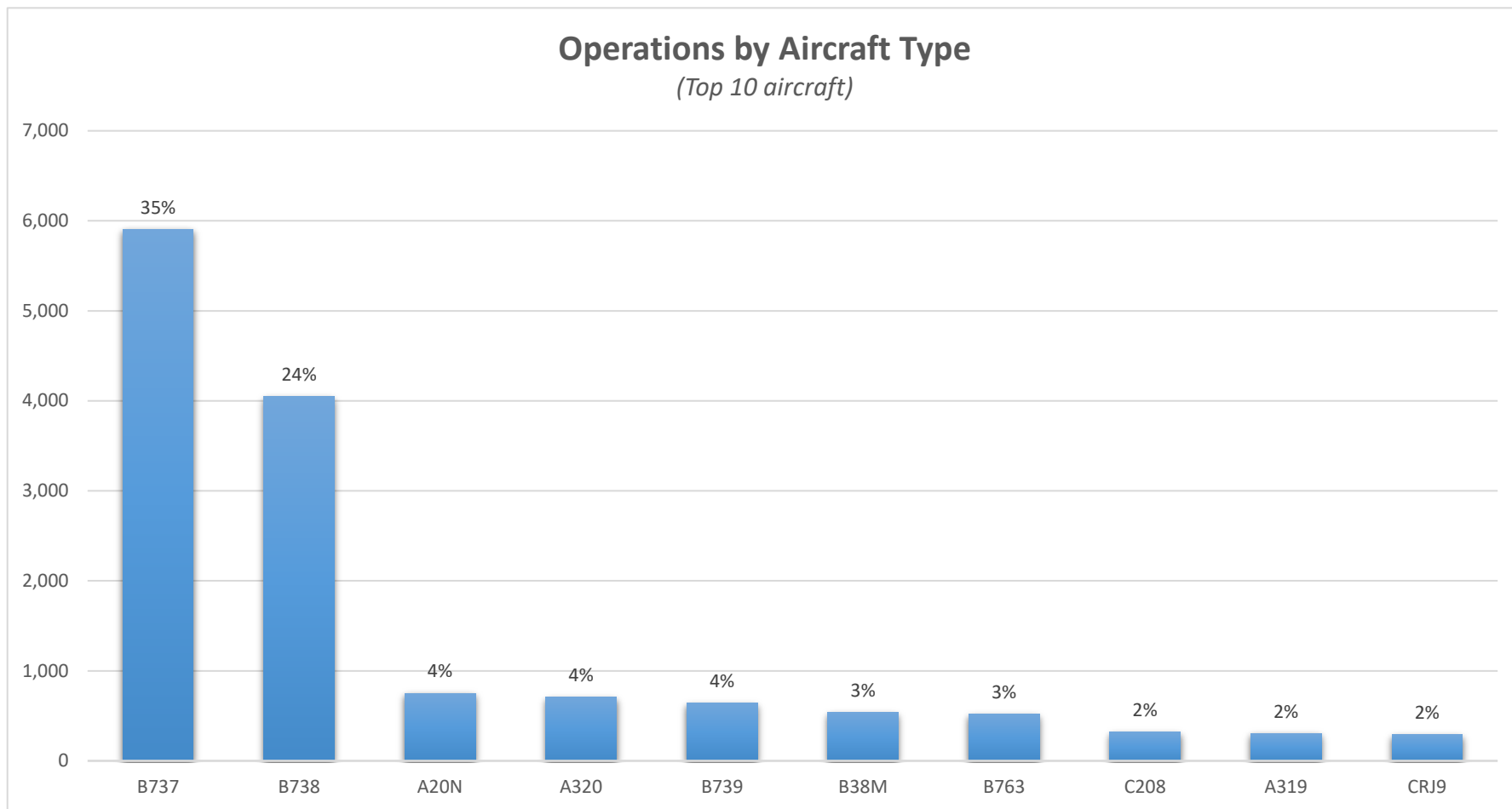


**Total Monthly Operations** 16,837

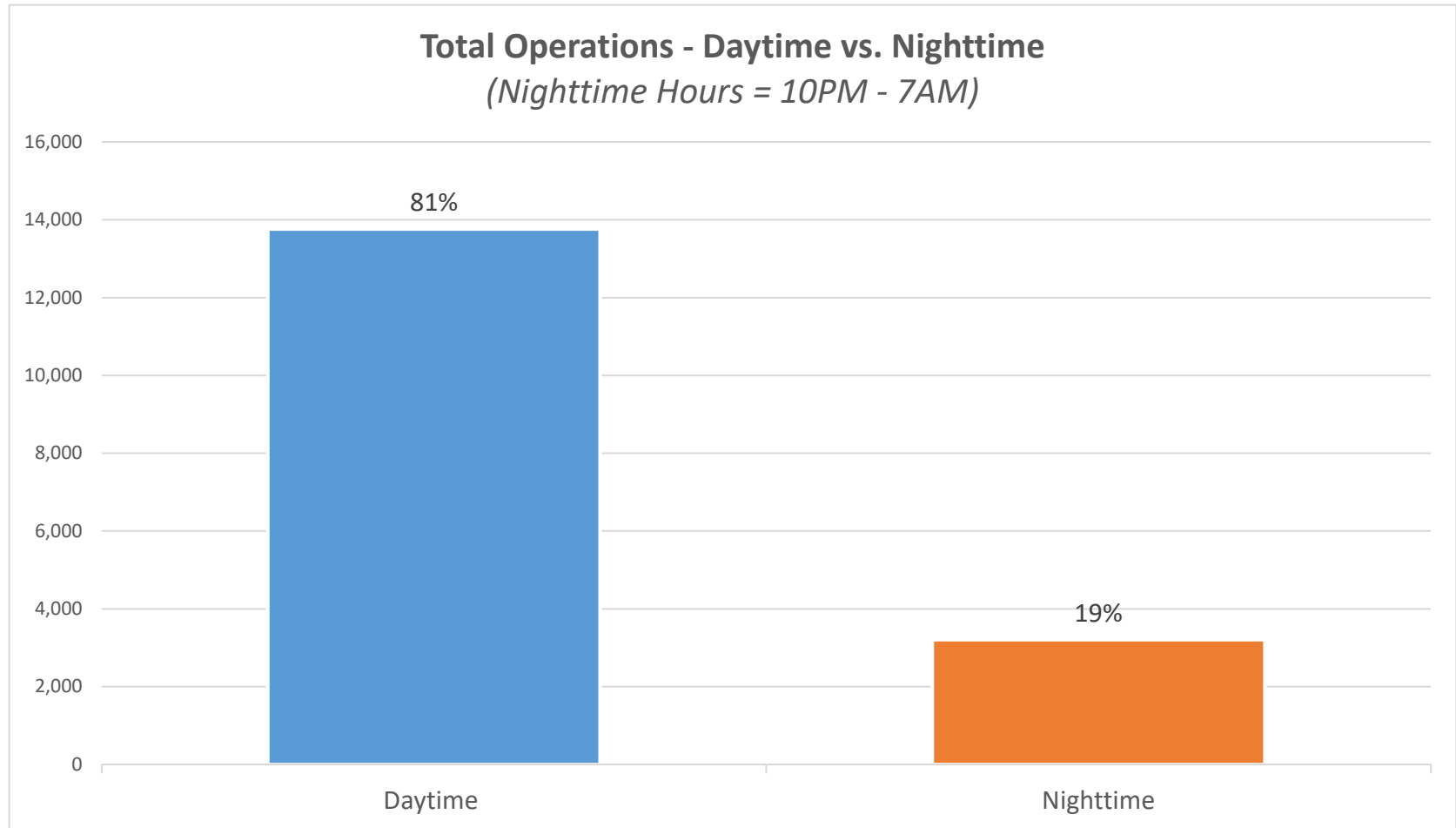
**Average Daily Operations** 543

# Fleet Mix: Aircraft Type

Operations by Aircraft Type  
(Top 10 aircraft)

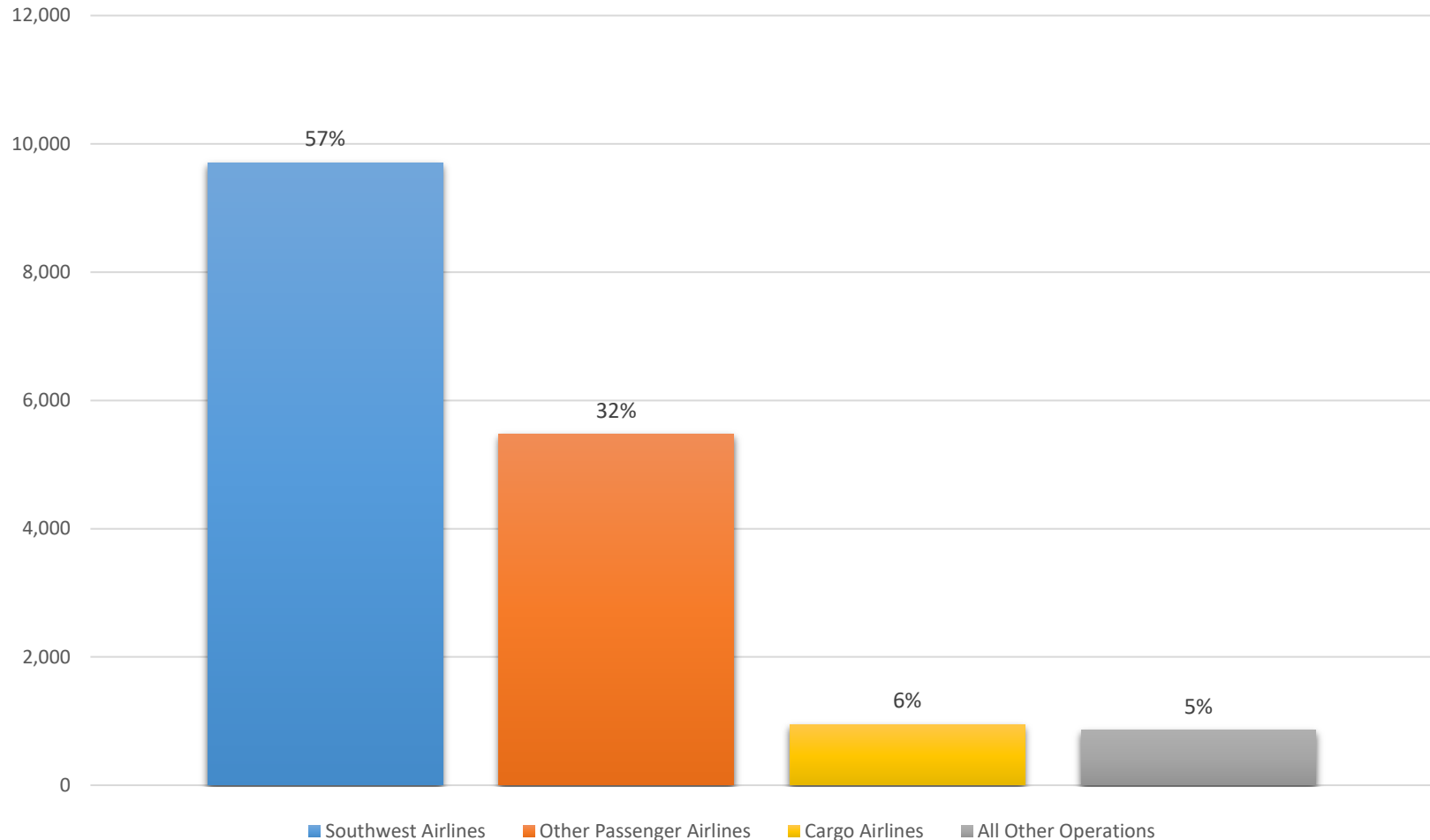


# Total Operations: Daytime vs. Nighttime



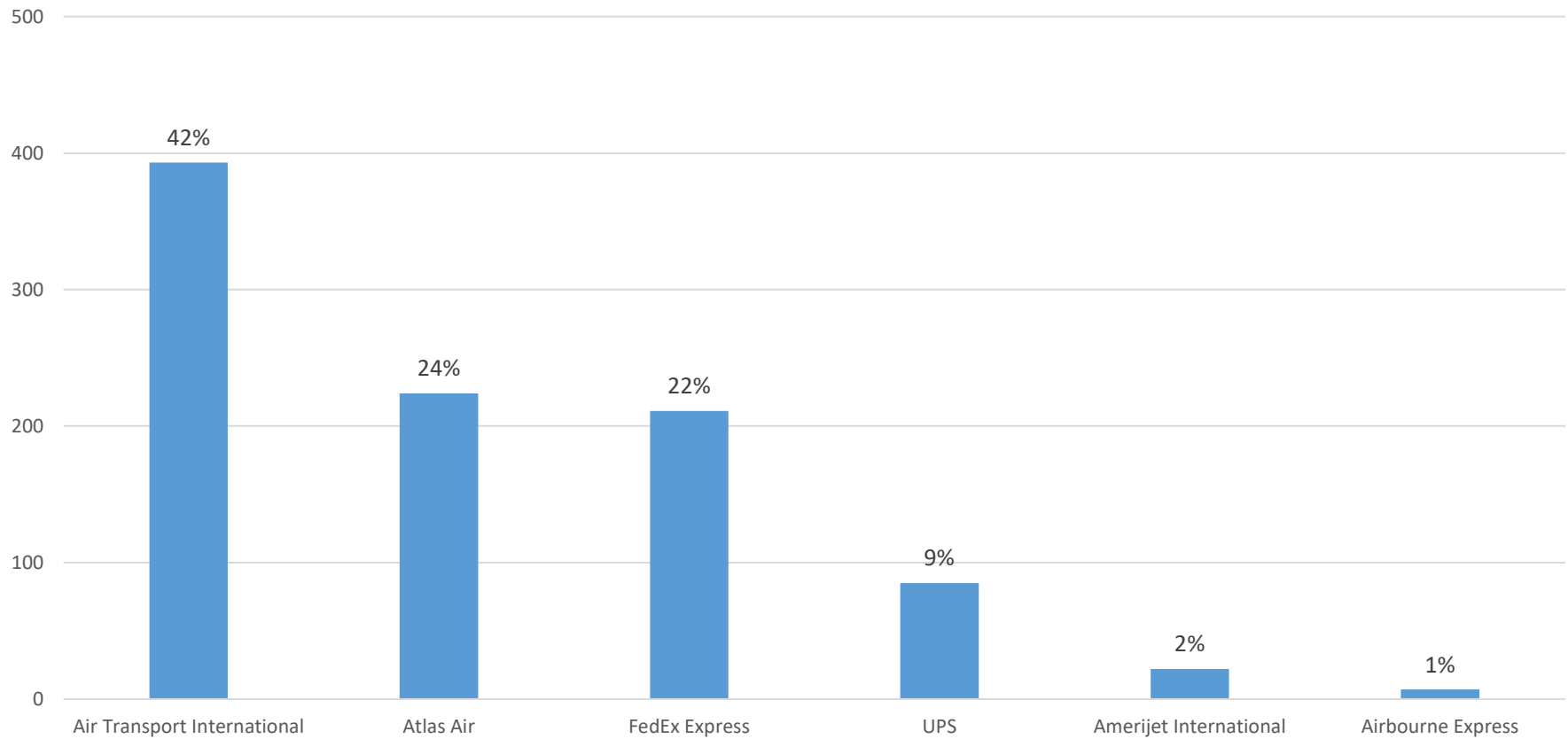
# Total Operations: Southwest Airlines vs. Other

## Monthly Operations by Operator or Category



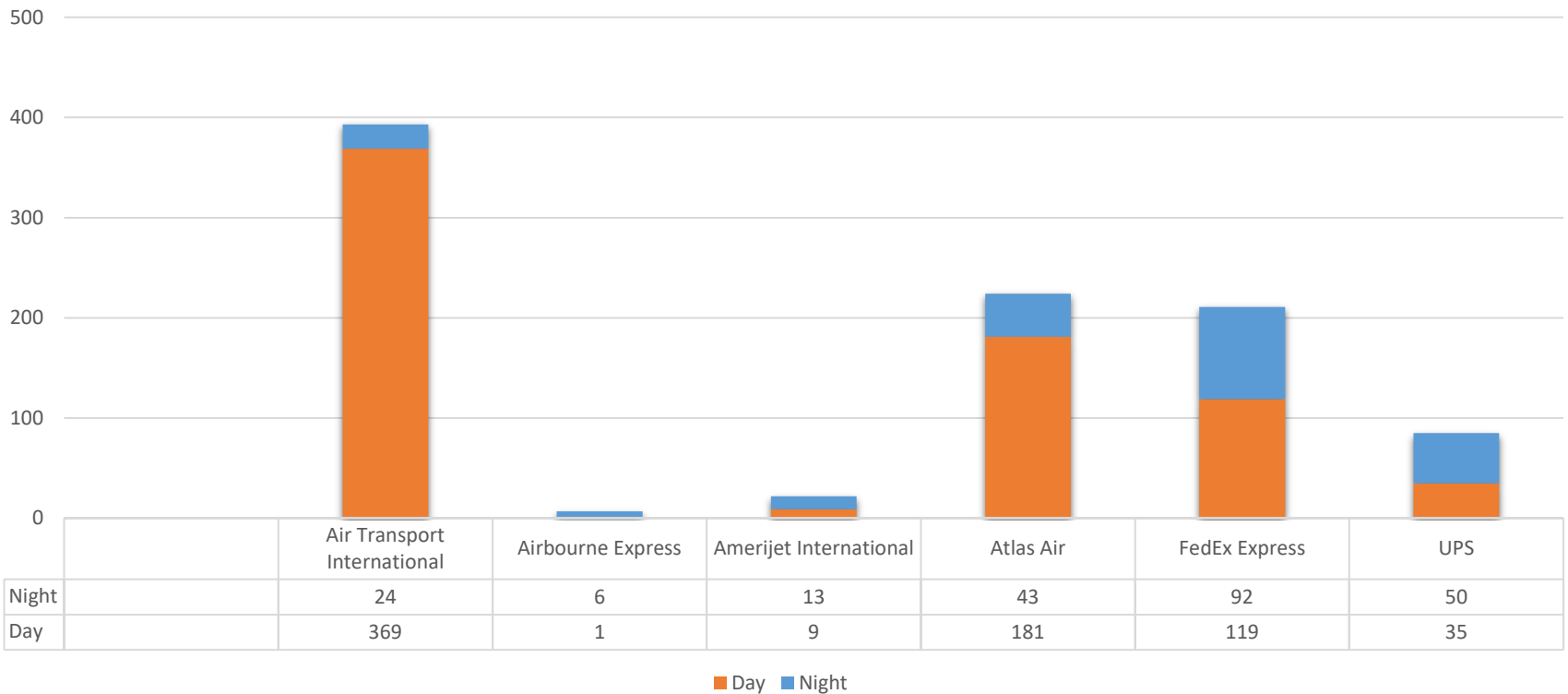
# Total Operations: Cargo Operators

## Total Operations - Cargo



# Cargo Operations: Daytime vs. Nighttime

**Cargo Operations: Daytime vs. Nighttime**  
(Nighttime Hours = 10PM-7AM)



# Runway Use - Arrivals





# Runway Use - Departures



# NOISE EXPOSURE

## *Virtual Noise Analysis*



# Noise Exposure – Virtual Noise Monitor Locations

(89 Monitor Points - Two-County, 2.5 mile grid)

ID	Latitude	Longitude	Elevation
VNM1	39.342462	-77.149704	879
VNM2	39.342017	-77.098984	784
VNM3	39.341572	-77.044704	680
VNM4	39.341572	-76.98998	583
VNM5	39.342462	-76.937035	629
VNM6	39.342907	-76.883645	652
VNM7	39.29975	-77.150594	759
VNM8	39.29975	-77.098094	520
VNM9	39.300127	-77.04389	680
VNM10	39.29975	-76.990272	583
VNM11	39.300315	-76.937031	629
VNM12	39.300051	-76.883621	629
VNM13	39.300051	-76.829825	408
VNM14	39.300051	-76.775888	538
VNM15	39.258958	-77.098251	520
VNM16	39.258421	-77.043211	500
VNM17	39.258421	-76.990856	564
VNM18	39.258421	-76.936353	443
VNM19	39.258421	-76.883461	448
VNM20	39.258152	-76.829227	415

ID	Latitude	Longitude	Elevation
VNM21	39.257884	-76.775798	309
VNM22	39.216537	-77.044017	500
VNM23	39.217074	-76.990856	596
VNM24	39.217342	-76.937159	596
VNM25	39.217074	-76.883461	399
VNM26	39.217074	-76.829495	515
VNM27	39.216805	-76.775798	458
VNM28	39.216537	-76.723174	177
VNM29	39.216805	-76.668403	32
VNM30	39.216805	-76.614437	142
VNM31	39.216805	-76.560203	28
VNM32	39.17519	-76.990319	527
VNM33	39.17519	-76.937696	400
VNM34	39.175458	-76.88373	369
VNM35	39.174921	-76.829764	320
VNM36	39.174921	-76.775798	220
VNM37	39.17519	-76.721832	144
VNM38	39.17519	-76.61578	26
VNM39	39.175458	-76.561277	68
VNM40	39.174921	-76.507579	13

ID	Latitude	Longitude	Elevation
VNM41	39.133306	-76.936622	442
VNM42	39.133306	-76.88373	303
VNM43	39.133306	-76.828153	247
VNM44	39.133574	-76.775529	237
VNM45	39.133843	-76.722637	166
VNM46	39.134111	-76.66894	137
VNM47	39.133574	-76.614437	60
VNM48	39.133843	-76.561545	45
VNM49	39.134111	-76.508116	120
VNM50	39.133574	-76.453882	24
VNM51	39.091959	-76.829764	113
VNM52	39.092496	-76.775261	117
VNM53	39.092496	-76.723174	181
VNM54	39.09169	-76.669745	193
VNM55	39.092496	-76.616048	101
VNM56	39.091959	-76.561277	37
VNM57	39.092496	-76.507311	70
VNM58	39.09169	-76.45415	24
VNM59	39.05088	-76.829764	118
VNM60	39.050612	-76.776066	152

# Noise Exposure – Virtual Noise Monitor Locations

*(89 Monitor Points – Two County, 2.5 mile grid)*

ID	Latitude	Longitude	Elevation
VNM61	39.05088	-76.722369	160
VNM62	39.050612	-76.669745	135
VNM63	39.050343	-76.615511	161
VNM64	39.050075	-76.561008	37
VNM65	39.05088	-76.507042	123
VNM66	39.050612	-76.454687	78
VNM67	39.008996	-76.722369	59
VNM68	39.008728	-76.669477	125
VNM69	39.008728	-76.615243	146
VNM70	39.008996	-76.561545	87
VNM71	39.008728	-76.508385	59
VNM72	39.008996	-76.453345	11
VNM73	39.008728	-76.400721	0
VNM74	38.967112	-76.667866	115
VNM75	38.967918	-76.614974	55
VNM76	38.967112	-76.561814	87
VNM77	38.967112	-76.507848	20
VNM78	39.05088	-76.401258	78
VNM79	38.967649	-76.455761	20
VNM80	38.925497	-76.668672	110

ID	Latitude	Longitude	Elevation
VNM81	38.925497	-76.615511	55
VNM82	38.925497	-76.561277	89
VNM83	38.925765	-76.506774	57
VNM84	38.925765	-76.454419	32
VNM85	38.883881	-76.668403	129
VNM86	38.884418	-76.616048	228
VNM87	38.883613	-76.561814	32
VNM88	38.883881	-76.507311	32
VNM89	39.008795	-76.346353	12

# Noise Exposure – Landmark Locations

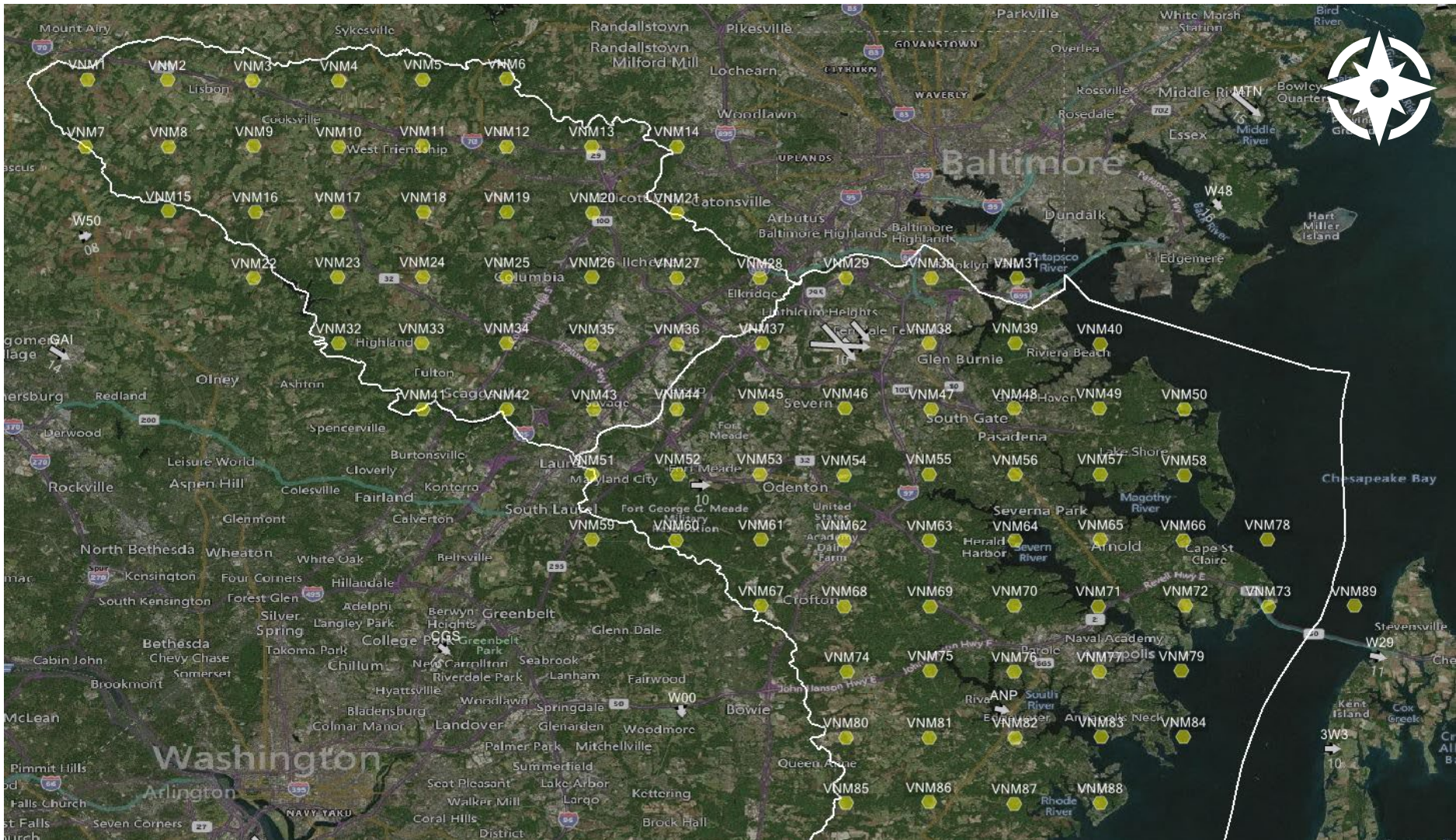
## Howard County

Name	Latitude	Longitude	Elevation	Location
HOCO_VNM1	39.17369	-76.78301	270	Howard Square Apartments
HOCO_VNM2	39.234427	-76.891275	458	HCPSS Administration Campus
HOCO_VNM3	39.238088	-76.857598	448	Centennial Park
HOCO_VNM4	39.213634	-76.884347	327	HoCo General Hospital
HOCO_VNM5	39.211508	-76.862455	399	Merriweather Post Pavilion
HOCO_VNM6	39.208174	-76.837858	327	Oakland Mills HS
HOCO_VNM7	39.206077	-76.81119	327	Long Reach HS
HOCO_VNM8	39.194622	-76.755931	427	Troy Park
HOCO_VNM9	39.194418	-76.736216	139	Harwood Park N'hood
HOCO_VNM10	39.198125	-76.88285	218	Abiding Savior Lutheran
HOCO_VNM11	39.266476	-76.97678	448	Tridelphia Ridge ES
HOCO_VNM12	39.187977	-76.880921	596	Atholton HS
HOCO_VNM13	39.184075	-76.82624	369	Christ Church Episcopal
HOCO_VNM14	39.196329	-76.785616	427	Mayfield Woods MS
HOCO_VNM15	39.272817	-76.831701	309	Manor Woods ES
HOCO_VNM16	39.179411	-76.806934	320	Gateway Site
HOCO_VNM17	39.184212	-76.740088	327	Oxford Square Neighborhood
HOCO_VNM18	39.203936	-76.9432	218	St. Louis Catholic

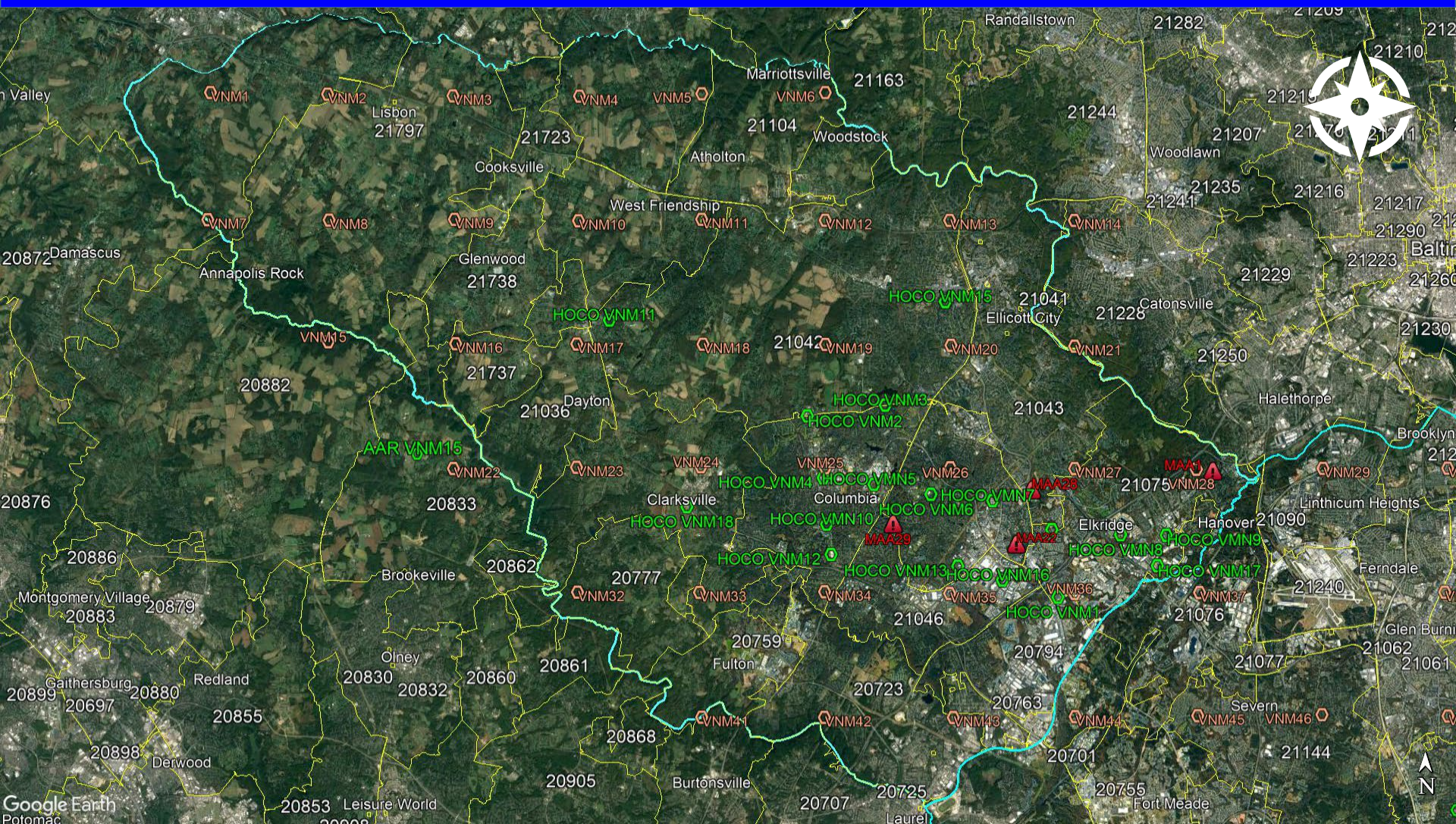
## Anne Arundel County

Name	Latitude	Longitude	Elevation	Location
AAR_VNM1	38.8044	-76.518	145	RAVNN
AAR_VNM2	38.8877	-76.5116	32	JETNA
AAR_VNM3	39.0663	-76.5761	123	Arden on the Severn
AAR_VNM4	38.9413	-76.5399	36	London Public House
AAR_VNM5	38.9586	-76.5116	24	Annapolis Middle School
AAR_VNM6	38.9913	-76.5033	59	West Annapolis Elementary
AAR_VNM7	39.0538	-76.0688	23	Herald Harbor
AAR_VNM8	38.9638	-76.4938	57	Eastport Terrace
AAR_VNM9	38.9666	-76.5025	20	Truxton Park
AAR_VNM10	39.1019	-76.6108	121	Shipley's Choice Elementary
AAR_VNM11	38.9541	-76.5086	24	Robinwood
AAR_VNM12	38.9963	-76.493	20	Wardour Bluffs
AAR_VNM13	39.0552	-76.6388	118	Millersville Elementary School
AAR_VNM14	39.0294	-76.5399	123	Sherwood Forest
ARR_VNM15	39.2213	-77.0597	500	Brookeville, Montgomery County
AAR_VNM16	38.9969	-76.5591	87	Rolling Knolls
ARR_VNM17	38.9788	-76.4911	20	Maryland State House
ARR_VNM18	39.0441	-76.6155	161	I-97 and MD 178 Crownsville

# Noise Exposure – Virtual Noise Monitor Locations

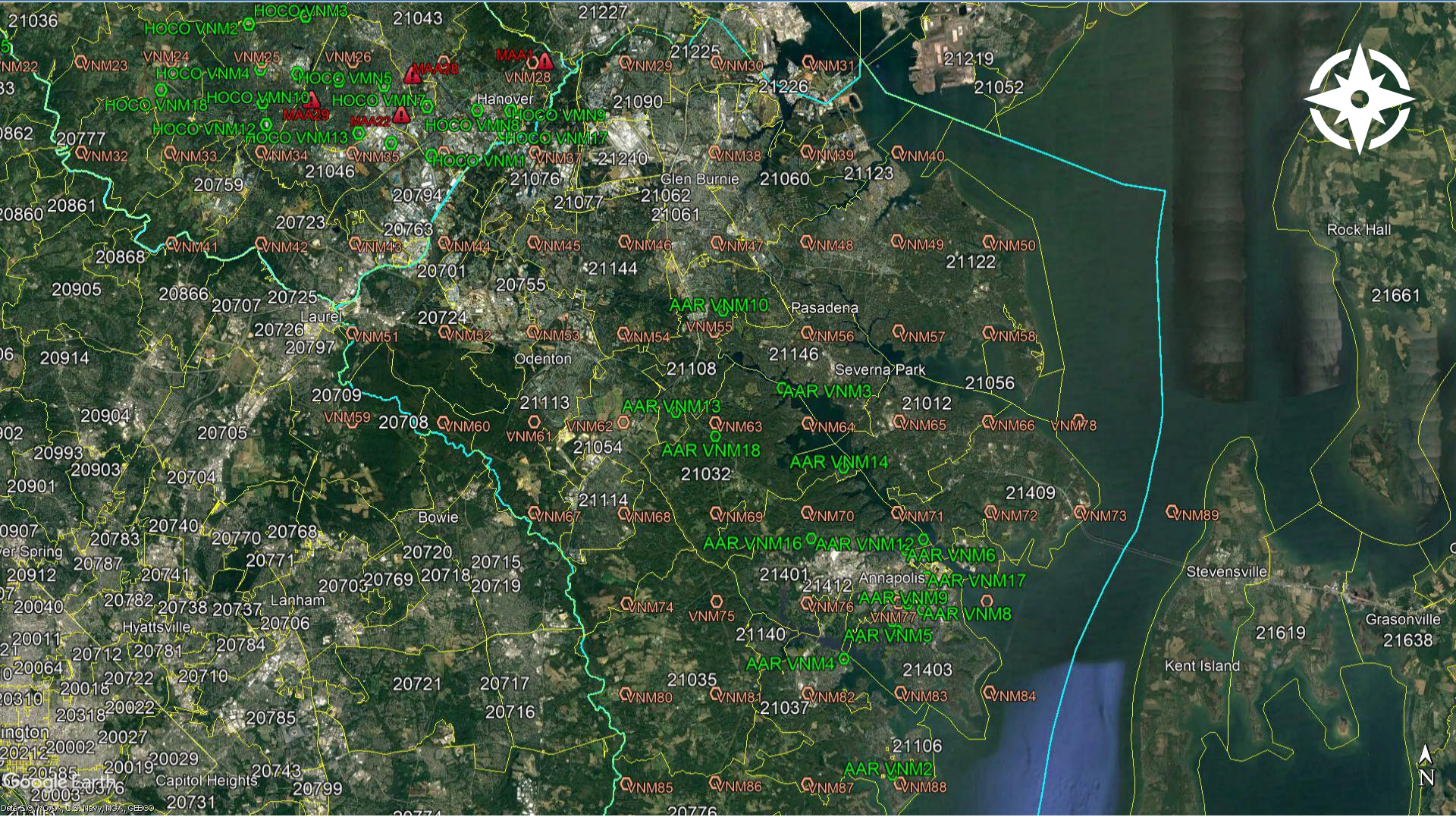


# Virtual Noise Monitor Locations – Howard County



Google Earth  
Potomac

# Virtual Noise Monitor Locations – Anne Arundel County





# Noise Exposure: Number-of-Events-Above

## March 2022

Name	Number-of-Events-Above 55 dBA		Number-of-Events-Above 65 dBA		Number-of-Events-Above 75 dBA	
	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)
VNM1	65	2	2	0	0	0
VNM2	82	3	4	0	1	0
VNM3	144	5	6	0	1	0
VNM4	259	8	9	0	2	0
VNM5	380	12	38	1	2	0
VNM6	460	15	122	4	8	0
VNM7	78	3	2	0	0	0
VNM8	135	4	4	0	1	0
VNM9	226	7	9	0	1	0
VNM10	349	11	29	1	3	0
VNM11	547	18	111	4	7	0
VNM12	699	23	174	6	18	1
VNM13	710	23	153	5	16	1
VNM14	666	21	114	4	21	1
VNM15	171	6	6	0	0	0
VNM16	297	10	24	1	2	0
VNM17	569	18	73	2	5	0
VNM18	985	32	195	6	13	0
VNM19	1,204	39	314	10	23	1
VNM20	859	28	303	10	26	1
VNM21	706	23	186	6	14	0
VNM22	377	12	31	1	1	0
VNM23	1,510	49	173	6	7	0
VNM24	3,433	111	442	14	43	1
VNM25	4,976	161	1,279	41	79	3

# Noise Exposure: Number-of-Events-Above

## March 2022

Name	Number-of-Events-Above 55 dBA		Number-of-Events-Above 65 dBA		Number-of-Events-Above 75 dBA	
	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)
VNM1	65	2	2	0	0	0
VNM2	82	3	4	0	1	0
VNM3	144	5	6	0	1	0
VNM4	259	8	9	0	2	0
VNM5	380	12	38	1	2	0
VNM6	460	15	122	4	8	0
VNM7	78	3	2	0	0	0
VNM8	135	4	4	0	1	0
VNM9	226	7	9	0	1	0
VNM10	349	11	29	1	3	0
VNM11	547	18	111	4	7	0
VNM12	699	23	174	6	18	1
VNM13	710	23	153	5	16	1
VNM14	666	21	114	4	21	1
VNM15	171	6	6	0	0	0
VNM16	297	10	24	1	2	0
VNM17	569	18	73	2	5	0
VNM18	985	32	195	6	13	0
VNM19	1,204	39	314	10	23	1
VNM20	859	28	303	10	26	1
VNM21	706	23	186	6	14	0
VNM22	377	12	31	1	1	0
VNM23	1,510	49	173	6	7	0
VNM24	3,433	111	442	14	43	1
VNM25	4,976	161	1,279	41	79	3

# Noise Exposure: Number-of-Events-Above

## March 2022

Name	Number-of-Events-Above 55 dBA		Number-of-Events-Above 65 dBA		Number-of-Events-Above 75 dBA	
	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)	<u>Number Above</u> (Monthly)	<u>Number Above</u> (Daily Average)
VNM26	5,379	174	1,244	40	78	3
VNM27	4,804	155	399	13	53	2
VNM28	1,701	55	233	8	19	1
VNM29	940	30	129	4	13	0
VNM30	771	25	123	4	8	0
VNM31	899	29	207	7	37	1
VNM32	605	20	164	5	17	1
VNM33	896	29	295	10	55	2
VNM34	1,687	54	504	16	94	3
VNM35	4,690	151	607	20	94	3
VNM36	8,530	275	3,807	123	156	5
VNM37	9,435	304	8,036	259	6,422	207
VNM38	2,016	65	1,205	39	93	3
VNM39	1,830	59	445	14	62	2
VNM40	1,638	53	489	16	74	2
VNM41	653	21	264	9	30	1
VNM42	883	28	406	13	66	2
VNM43	1,062	34	446	14	88	3
VNM44	2,230	72	940	30	47	2
VNM45	3,709	120	1,122	36	35	1
VNM46	3,696	119	1,925	62	1,147	37
VNM47	4,792	155	1,348	43	185	6
VNM48	1,653	53	672	22	159	5
VNM49	2,110	68	709	23	89	3
VNM50	1,442	47	522	17	96	3

# Noise Exposure: Number-of-Events-Above

## March 2022

Name	Number-of-Events-Above 55 dBA		Number-of-Events-Above 65 dBA		Number-of-Events-Above 75 dBA	
	Number Above (Monthly)	Number Above (Daily Average)	Number Above (Monthly)	Number Above (Daily Average)	Number Above (Monthly)	Number Above (Daily Average)
VNM51	1,127	36	324	10	22	1
VNM52	1,224	39	306	10	14	0
VNM53	2,152	69	724	23	14	0
VNM54	2,175	70	325	10	54	2
VNM55	3,884	125	827	27	108	3
VNM56	2,495	80	899	29	140	5
VNM57	1,882	61	759	24	166	5
VNM58	1,527	49	554	18	62	2
VNM59	720	23	169	5	8	0
VNM60	1,777	57	238	8	13	0
VNM61	1,165	38	261	8	12	0
VNM62	1,902	61	437	14	24	1
VNM63	1,564	50	508	16	127	4
VNM64	3,815	123	920	30	139	4
VNM65	2,035	66	739	24	133	4
VNM66	1,428	46	477	15	28	1
VNM67	1,141	37	216	7	10	0
VNM68	2,150	69	349	11	13	0
VNM69	1,734	56	550	18	59	2
VNM70	2,379	77	677	22	81	3
VNM71	2,129	69	594	19	80	3
VNM72	1,426	46	336	11	14	0
VNM73	793	26	94	3	6	0
VNM74	1,247	40	204	7	3	0
VNM75	1,418	46	354	11	12	0

# Noise Exposure: Number-of-Events-Above

## March 2022

Name	Number-of-Events-Above 55 dBA		Number-of-Events-Above 65 dBA		Number-of-Events-Above 75 dBA	
	<u>Number Above</u> <u>(Monthly)</u>	<u>Number Above</u> <u>(Daily Average)</u>	<u>Number Above</u> <u>(Monthly)</u>	<u>Number Above</u> <u>(Daily Average)</u>	<u>Number Above</u> <u>(Monthly)</u>	<u>Number Above</u> <u>(Daily Average)</u>
VNM76	2,102	68	381	12	22	1
VNM77	1,503	48	349	11	21	1
VNM78	966	31	174	6	12	0
VNM79	1,090	35	191	6	6	0
VNM80	649	21	34	1	1	0
VNM81	916	30	137	4	2	0
VNM82	874	28	155	5	3	0
VNM83	785	25	126	4	0	0
VNM84	603	19	38	1	0	0
VNM85	311	10	9	0	0	0
VNM86	425	14	15	0	0	0
VNM87	478	15	16	1	0	0
VNM88	435	14	14	0	0	0
VNM89	497	16	40	1	2	0

# Noise Exposure: Number-of-Events-Above (AAR Landmark VNMs)

Name	Number Above Threshold 55dB (Monthly)	Number Above Threshold 55dB (Daily Average)	Number Above Threshold 65dB (Monthly)	Number Above Threshold 65 dB (Daily Average)	Number Above Threshold 75dB (Monthly)	Number Above Threshold 75dB (Daily Average)
AAR_VNM1	42	2	0	0	0	0
AAR_VNM2	183	6	1	0	0	0
AAR_VNM3	3994	129	2418	78	181	6
AAR_VNM4	1161	38	66	2	1	0
AAR_VNM5	908	30	92	3	1	0
AAR_VNM6	1449	47	191	6	12	0
AAR_VNM7	31	1	0	0	0	0
AAR_VNM8	740	24	83	3	1	0
AAR_VNM9	956	31	109	4	3	0
AAR_VNM10	5295	171	4091	132	271	9
AAR_VNM11	721	24	80	3	2	0
AAR_VNM12	1263	41	170	5	13	0
AAR_VNM13	1196	39	288	9	97	3
AAR_VNM14	1766	57	429	14	58	2
ARR_VNM15	150	5	9	0	1	0
AAR_VNM16	1806	59	323	10	20	1
ARR_VNM17	1070	35	123	4	7	0
ARR_VNM18	1066	35	308	10	98	3

# Noise Exposure: Number-of-Events-Above (HoCo Landmark VNMs)

Name	Number Above Threshold 55dB (Monthly)	Number Above Threshold 55dB (Daily Average)	Number Above Threshold 65dB (Monthly)	Number Above Threshold 65 dB (Daily Average)	Number Above Threshold 75dB (Monthly)	Number Above Threshold 75dB (Daily Average)
HOCO_VNM1	7999	259	1544	50	91	3
HOCO_VNM2	3833	124	334	11	13	0
HOCO_VNM3	3981	129	239	8	24	1
HOCO_VNM4	4652	151	1076	35	29	1
HOCO_VNM5	4979	161	2051	66	46	1
HOCO_VNM6	5260	170	2558	83	74	2
HOCO_VNM7	5347	173	2967	96	90	3
HOCO_VNM8	6645	215	4232	137	418	13
HOCO_VNM9	6678	216	3332	107	175	6
HOCO_VNM10	4565	148	464	15	50	2
HOCO_VNM11	358	12	37	1	0	0
HOCO_VNM12	4351	141	838	27	71	2
HOCO_VNM13	6224	201	1845	60	170	5
HOCO_VNM14	5576	180	3748	121	294	9
HOCO_VNM15	506	17	140	5	5	0
HOCO_VNM16	6527	211	2191	71	185	6
HOCO_VNM17	9237	298	6319	204	2705	87
HOCO_VNM18	2628	85	227	7	8	0

# Noise Exposure: DNL (Daily Average for March)

## March 2022

Name	Noise Level (dB)	Noise Metric
VNM1	21	DNL
VNM2	23	DNL
VNM3	26	DNL
VNM4	34	DNL
VNM5	38	DNL
VNM6	41	DNL
VNM7	22	DNL
VNM8	28	DNL
VNM9	32	DNL
VNM10	36	DNL
VNM11	41	DNL
VNM12	45	DNL
VNM13	44	DNL
VNM14	45	DNL
VNM15	30	DNL
VNM16	36	DNL
VNM17	39	DNL
VNM18	46	DNL
VNM19	50	DNL
VNM20	48	DNL
VNM21	44	DNL
VNM22	37	DNL
VNM23	43	DNL
VNM24	52	DNL
VNM25	55	DNL

Name	Noise Level (dB)	Noise Metric
VNM26	59	DNL
VNM27	54	DNL
VNM28	50	DNL
VNM29	45	DNL
VNM30	44	DNL
VNM31	44	DNL
VNM32	42	DNL
VNM33	49	DNL
VNM34	54	DNL
VNM35	56	DNL
VNM36	61	DNL
VNM37	72	DNL
VNM38	57	DNL
VNM39	51	DNL
VNM40	74	DNL
VNM41	48	DNL
VNM42	49	DNL
VNM43	54	DNL
VNM44	53	DNL
VNM45	56	DNL
VNM46	64	DNL
VNM47	57	DNL
VNM48	51	DNL
VNM49	51	DNL
VNM50	51	DNL

Name	Noise Level (dB)	Noise Metric
VNM51	49	DNL
VNM52	48	DNL
VNM53	51	DNL
VNM54	49	DNL
VNM55	53	DNL
VNM56	56	DNL
VNM57	52	DNL
VNM58	54	DNL
VNM59	44	DNL
VNM60	49	DNL
VNM61	45	DNL
VNM62	52	DNL
VNM63	49	DNL
VNM64	58	DNL
VNM65	51	DNL
VNM66	47	DNL
VNM67	45	DNL
VNM68	48	DNL
VNM69	47	DNL
VNM70	51	DNL
VNM71	50	DNL
VNM72	46	DNL
VNM73	43	DNL
VNM74	44	DNL
VNM75	45	DNL





Missing DNL for VNM 76-89

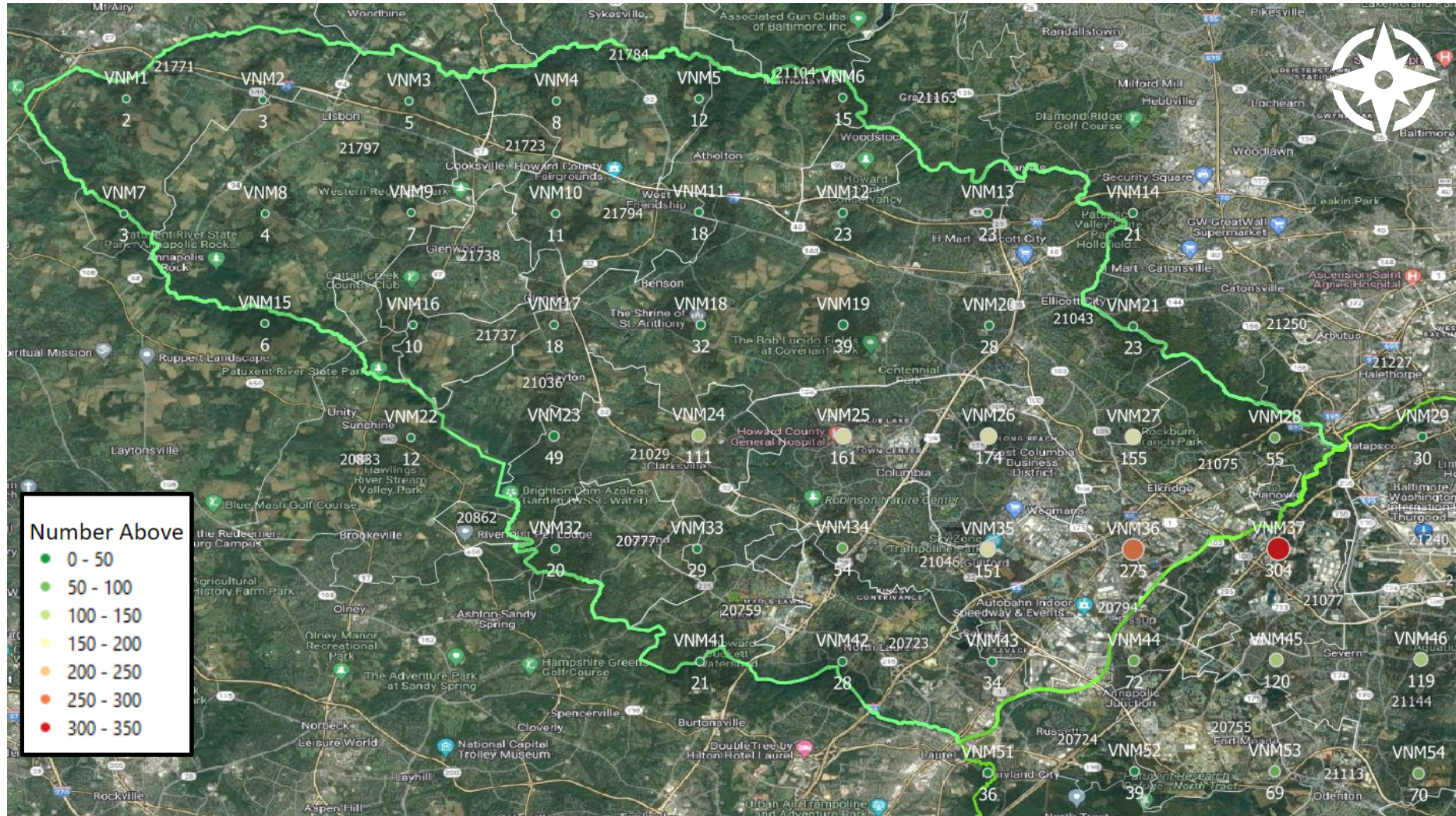
# Noise Exposure: DNL

(Landmark VNMs)

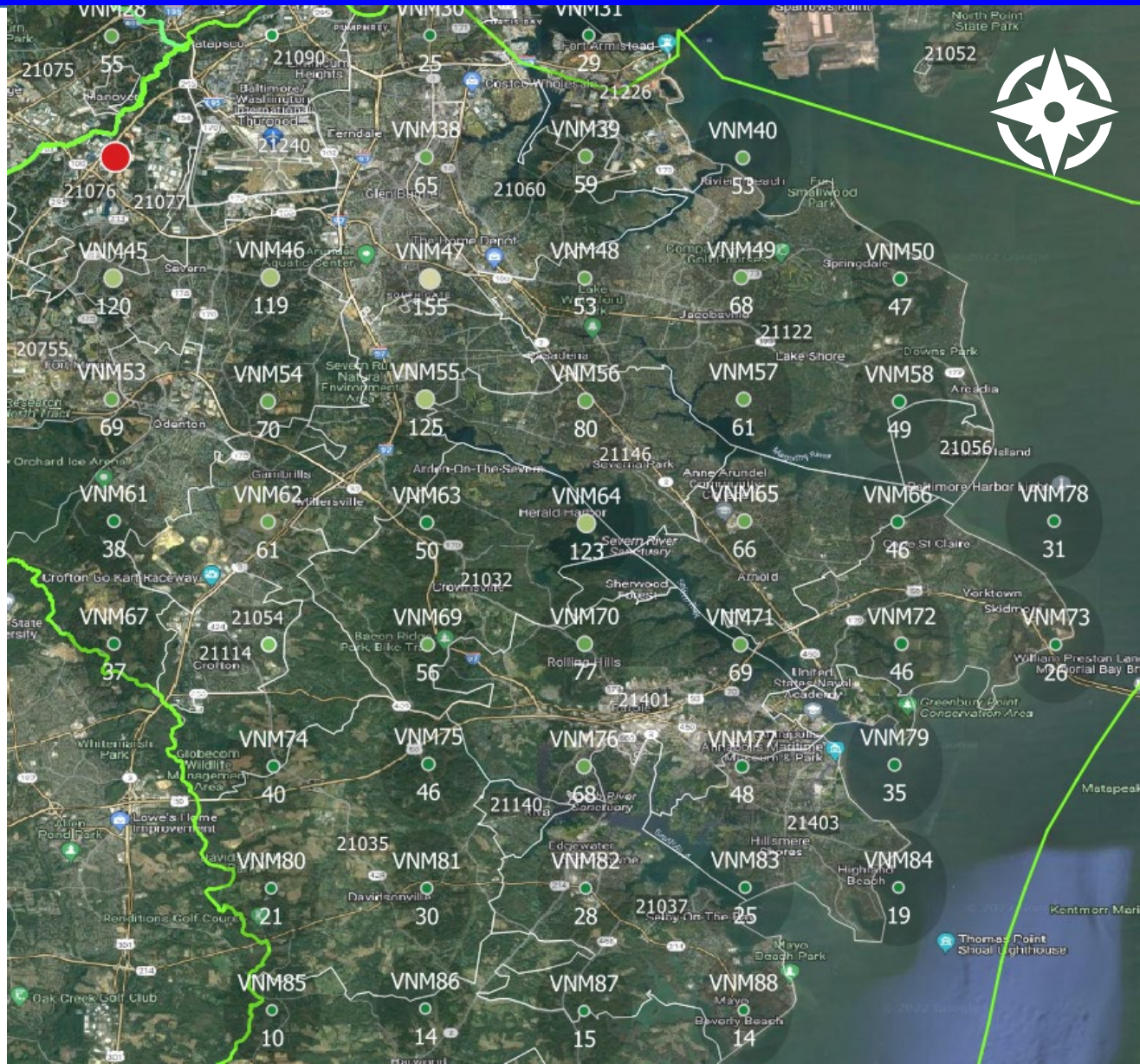
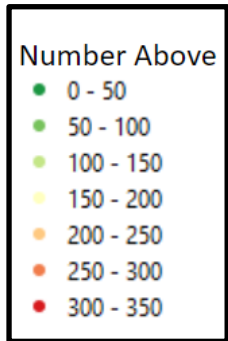
## March 2022

Name	Noise Level (dB)	Name	Noise Level (dB)
AAR_VNM1	22.19	HOCO_VNM1	60.7
AAR_VNM2	26.15	HOCO_VNM2	51.67
AAR_VNM3	58.75	HOCO_VNM3	51.1
AAR_VNM4	40.32	HOCO_VNM4	54.89
AAR_VNM5	40.77	HOCO_VNM5	56.54
AAR_VNM6	47.28	HOCO_VNM6	58.21
AAR_VNM7	25.46	HOCO_VNM7	59.25
AAR_VNM8	41.41	HOCO_VNM8	62.04
AAR_VNM9	43.28	HOCO_VNM9	60.64
AAR_VNM10	65.47	HOCO_VNM10	53.74
AAR_VNM11	38.88	HOCO_VNM11	38.05
AAR_VNM12	46.39	HOCO_VNM12	54.86
AAR_VNM13	51.07	HOCO_VNM13	60.87
AAR_VNM14	51.3	HOCO_VNM14	61.89
ARR_VNM15	41.04	HOCO_VNM15	44.93
AAR_VNM16	50.04	HOCO_VNM16	61.63
ARR_VNM17	46.96	HOCO_VNM17	67.55
ARR_VNM18	49.72	HOCO_VNM18	48.53

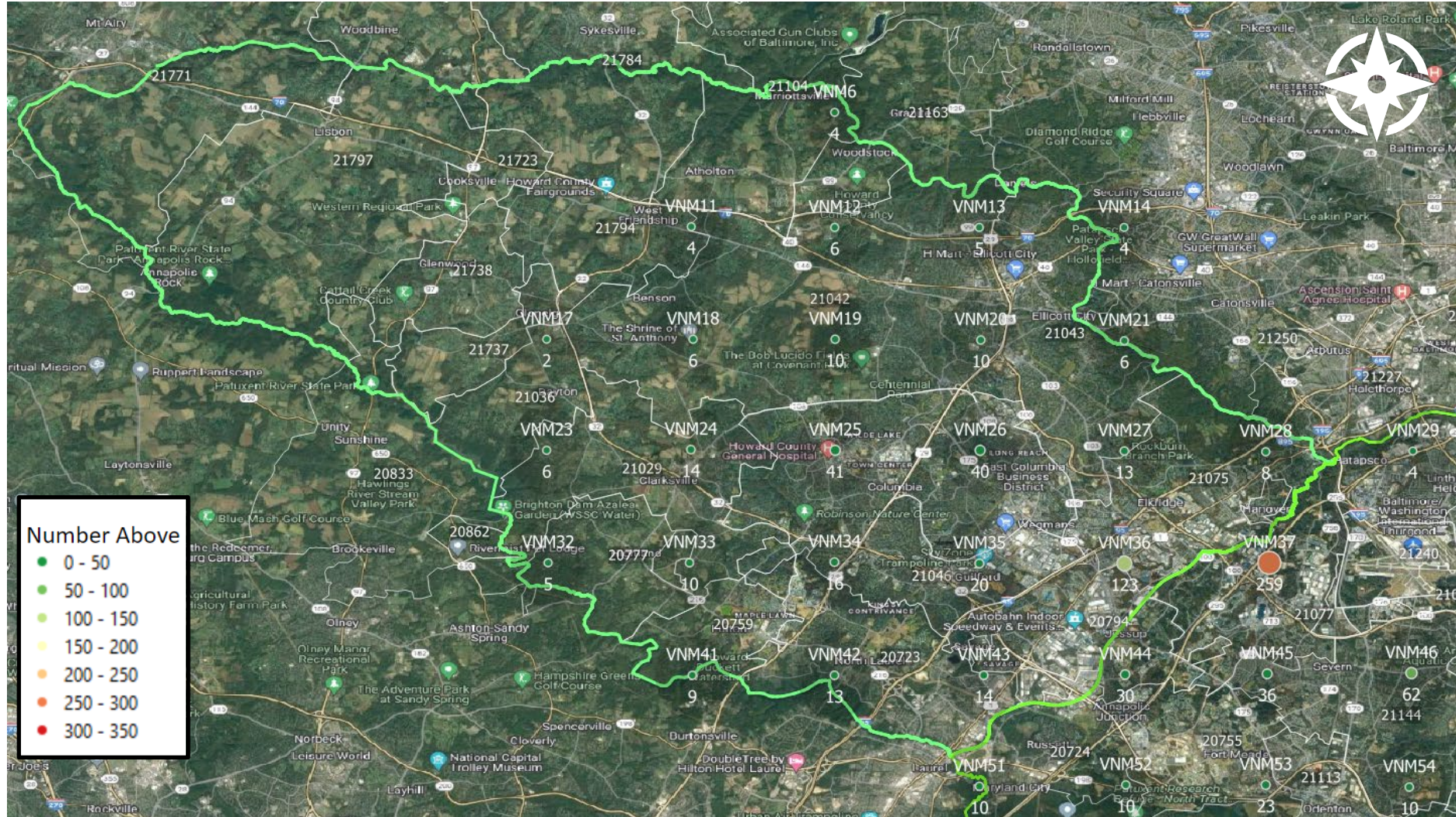
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average) Howard County



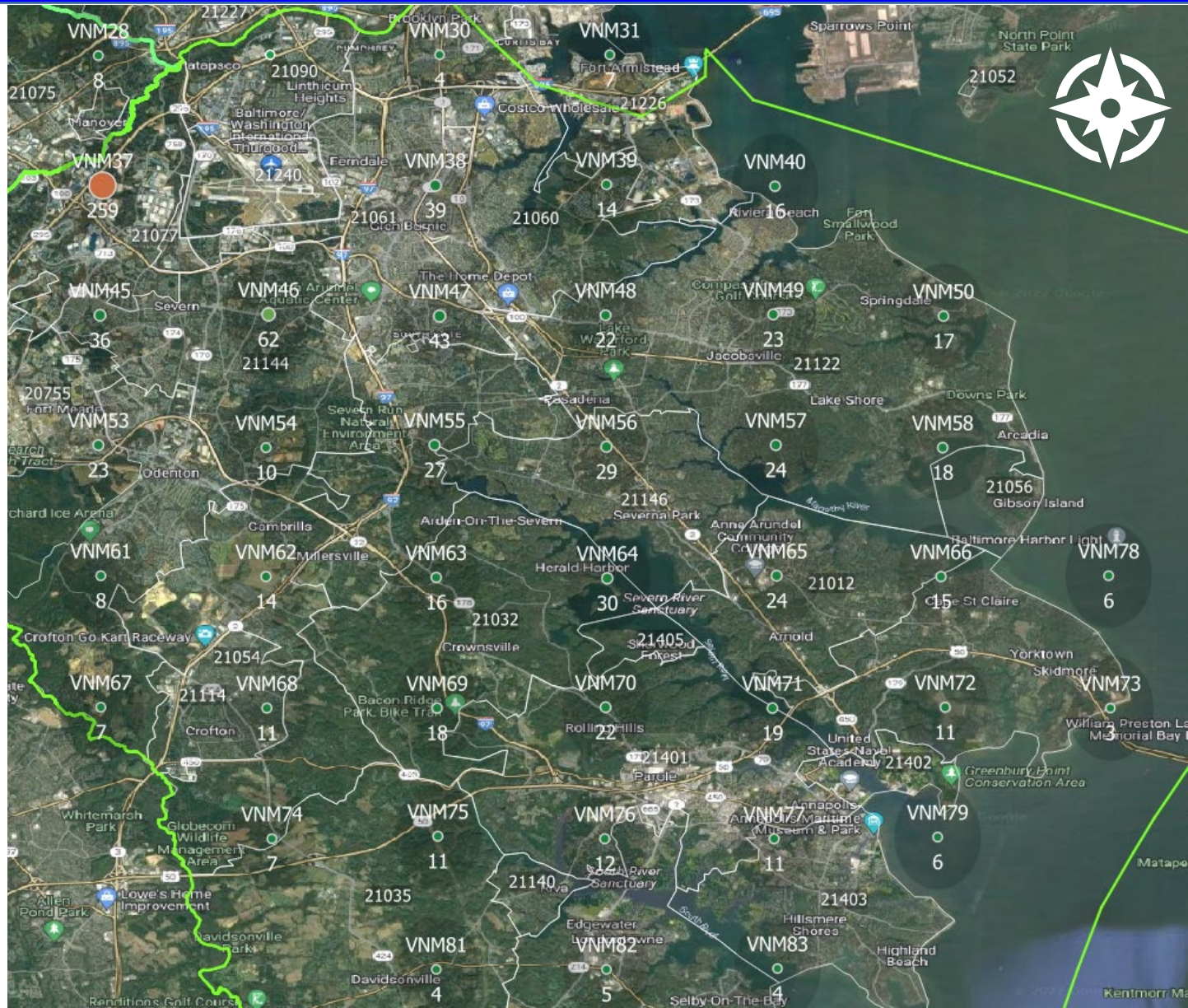
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average) Anne Arundel County



# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average) Howard County



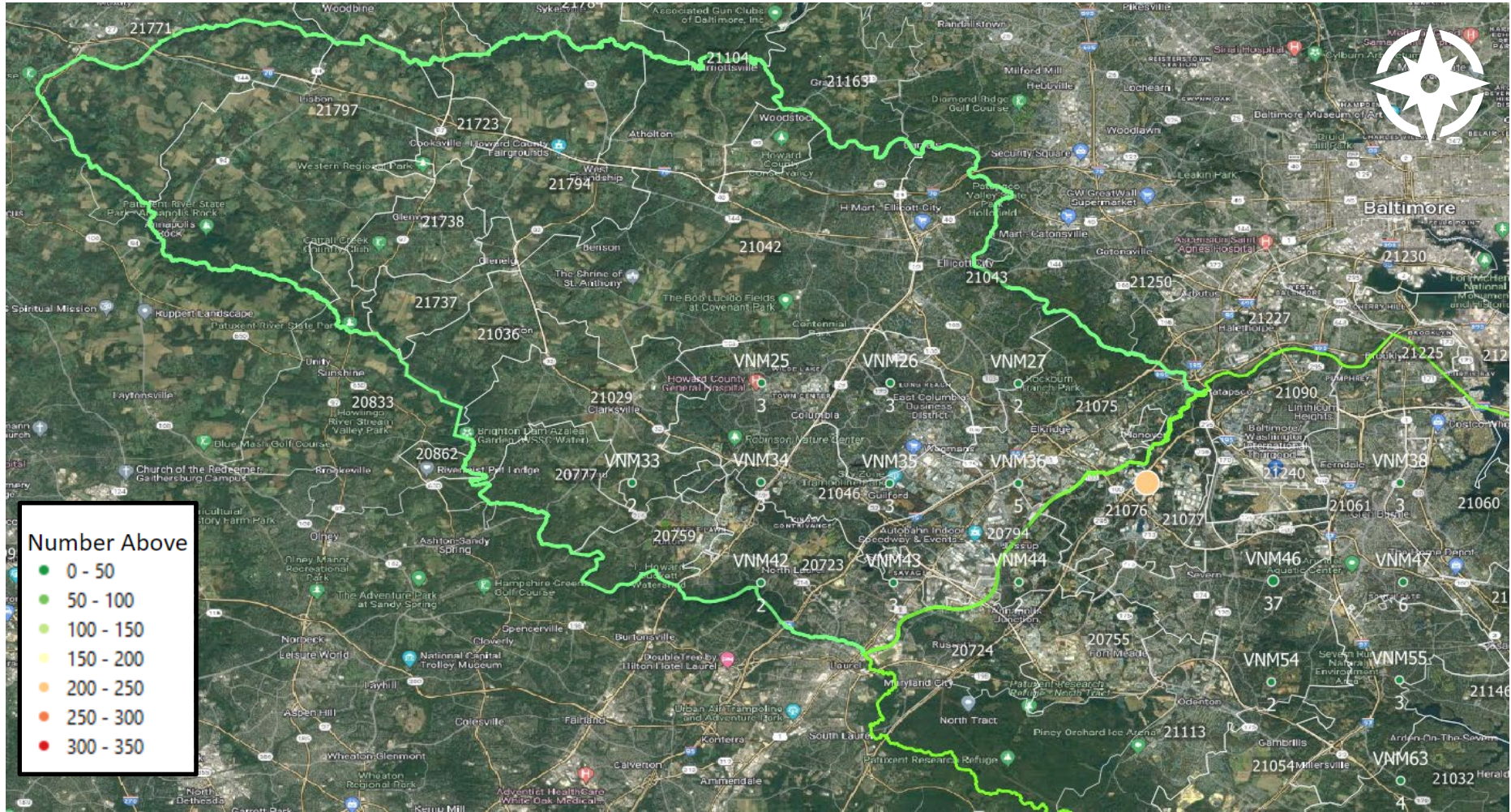
# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average) Anne Arundel County



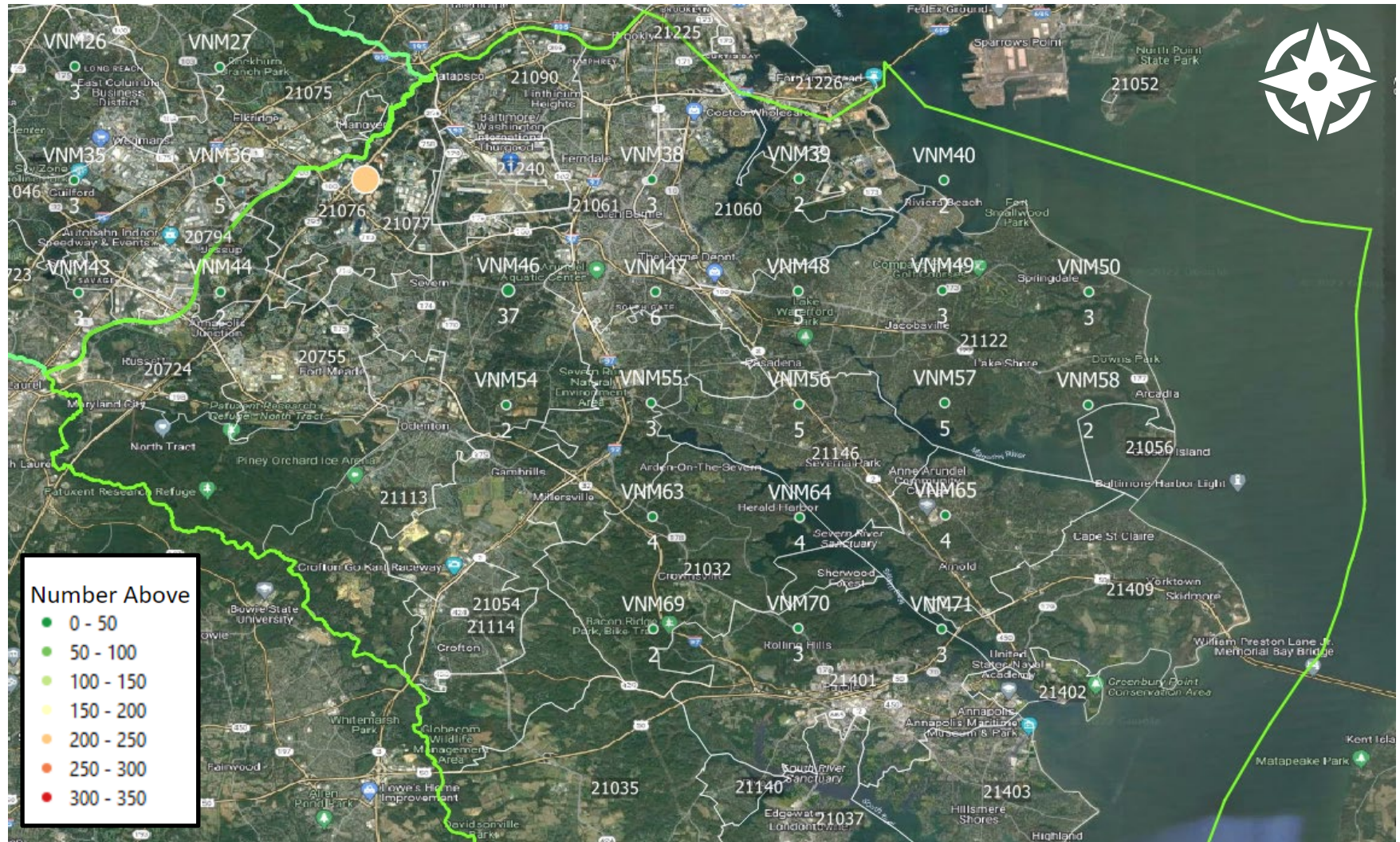
## Number Above

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300
- 300 - 350

# Noise Exposure: Number-of-Events-Above 75 dBA (Daily Average) Howard County



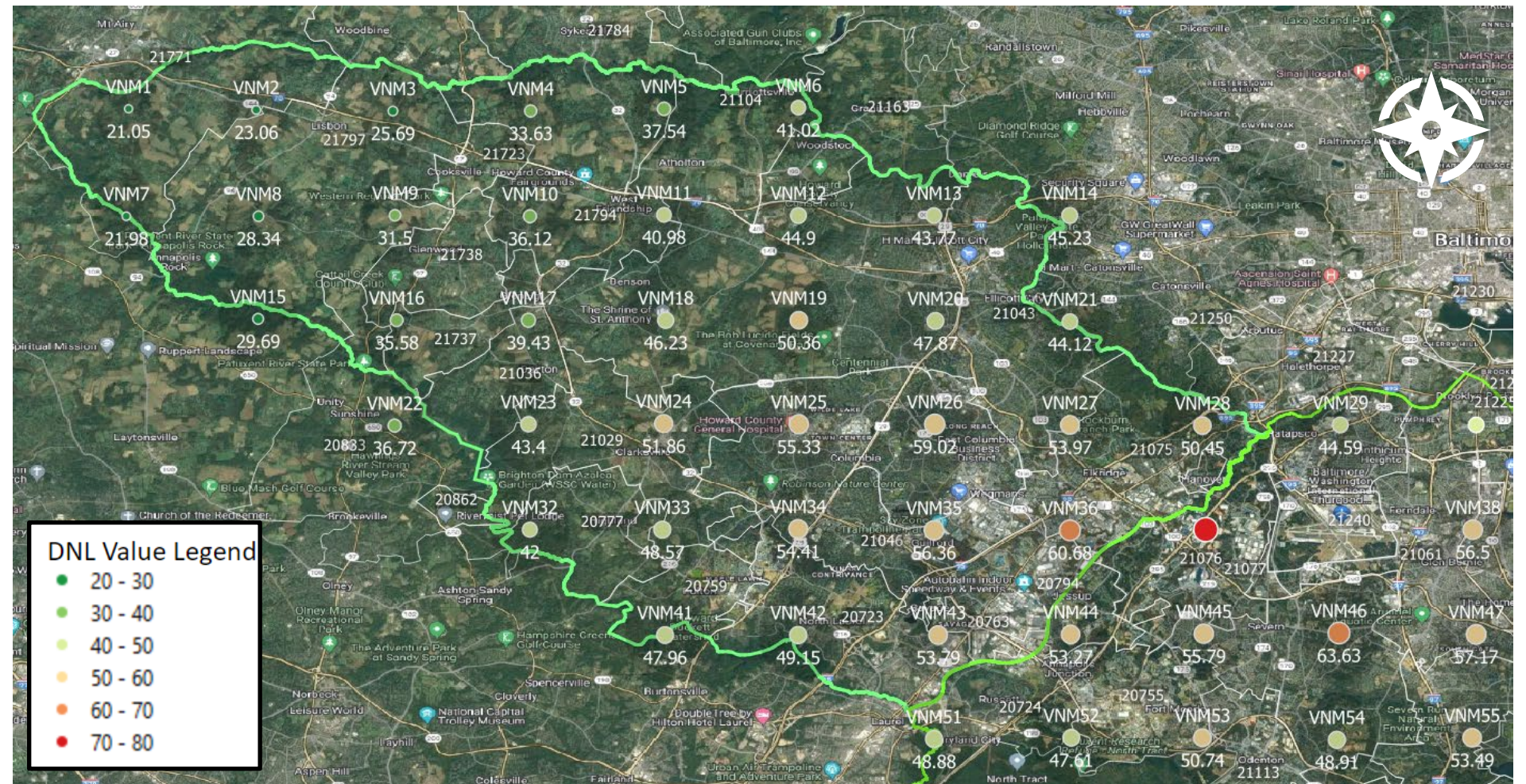
# Noise Exposure: Number-of-Events-Above 75 dBA (Daily Average) Anne Arundel County





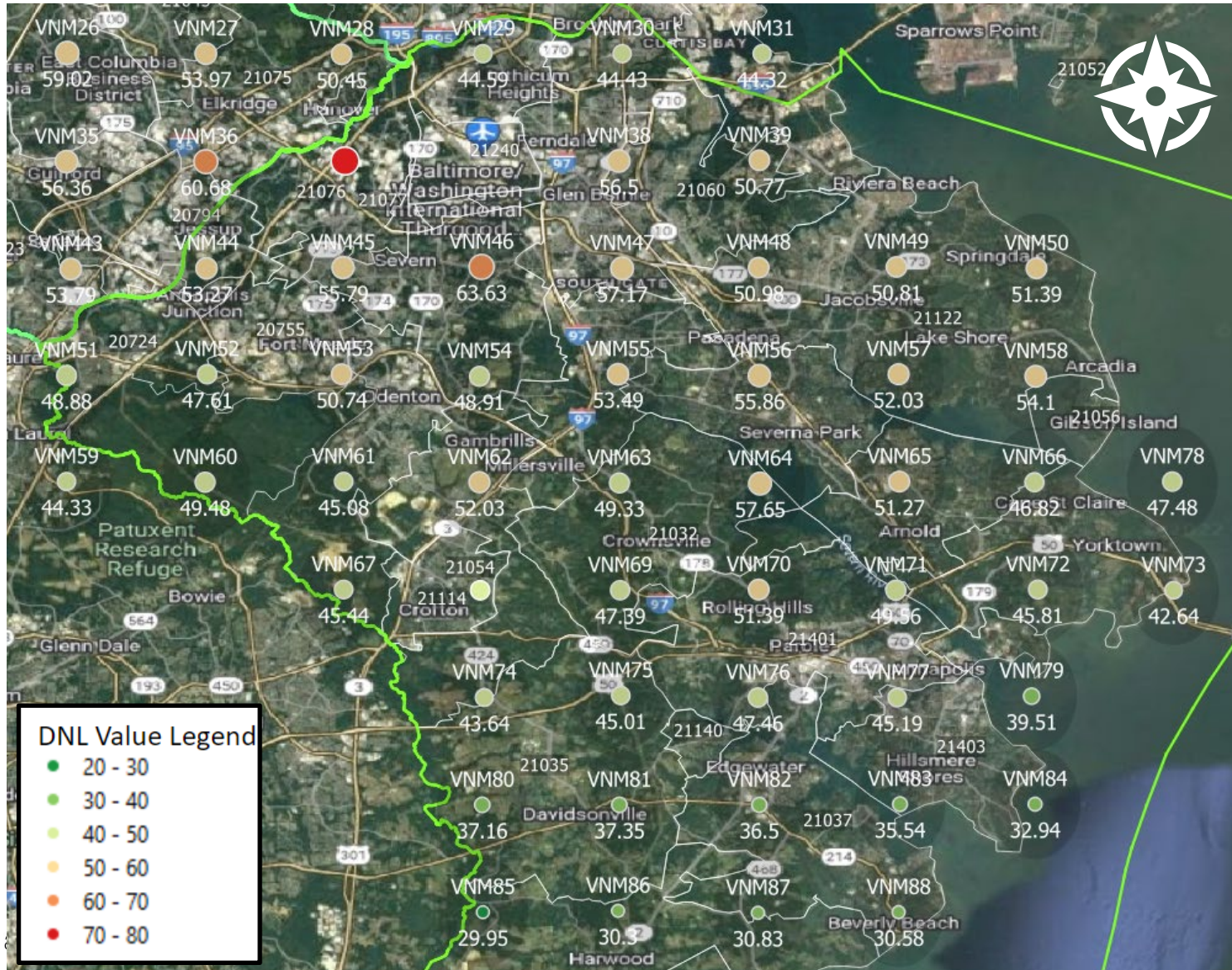
# Noise Exposure: DNL (Daily Average)

## Howard County

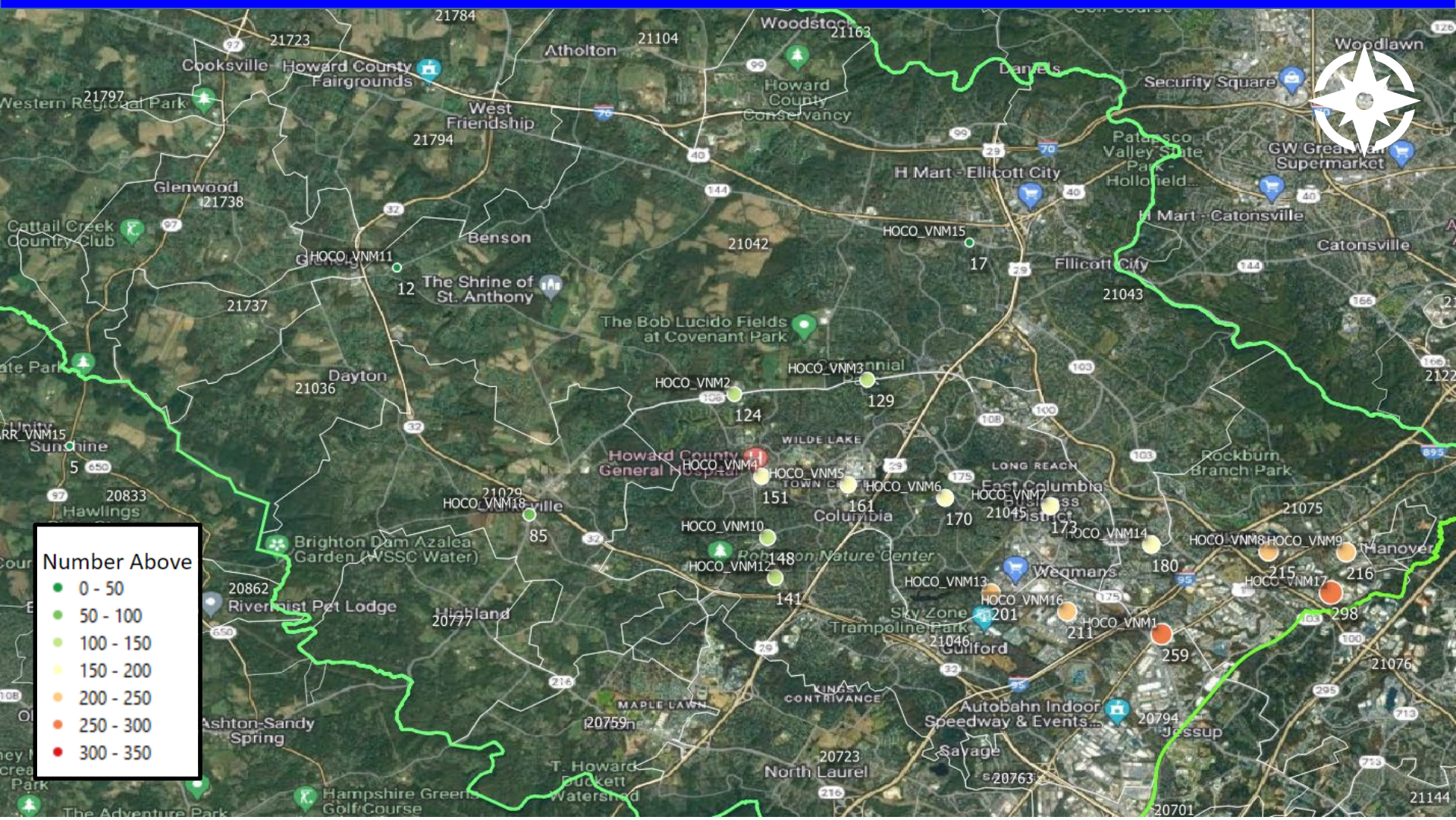


# Noise Exposure: DNL (Daily Average)

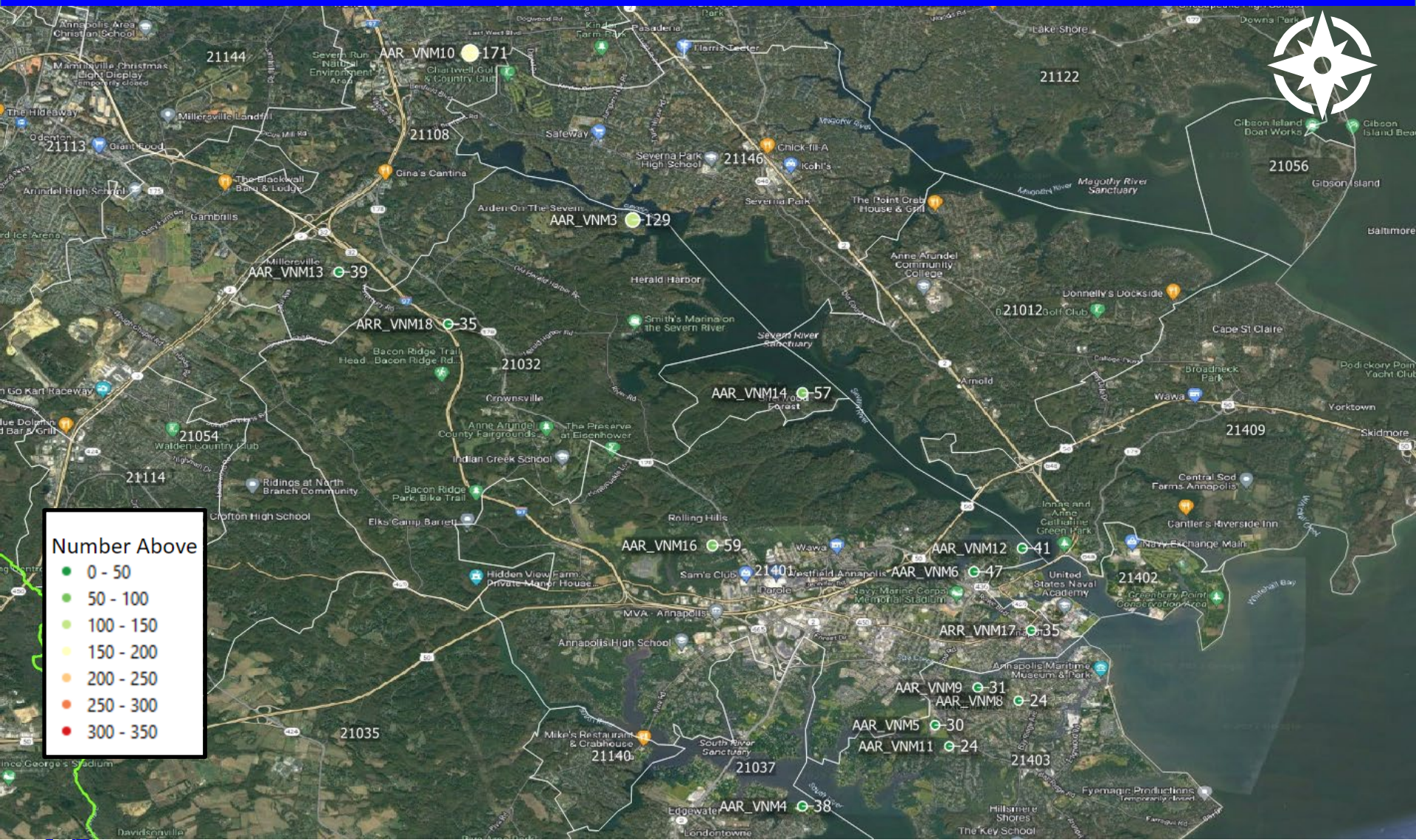
## Anne Arundel County



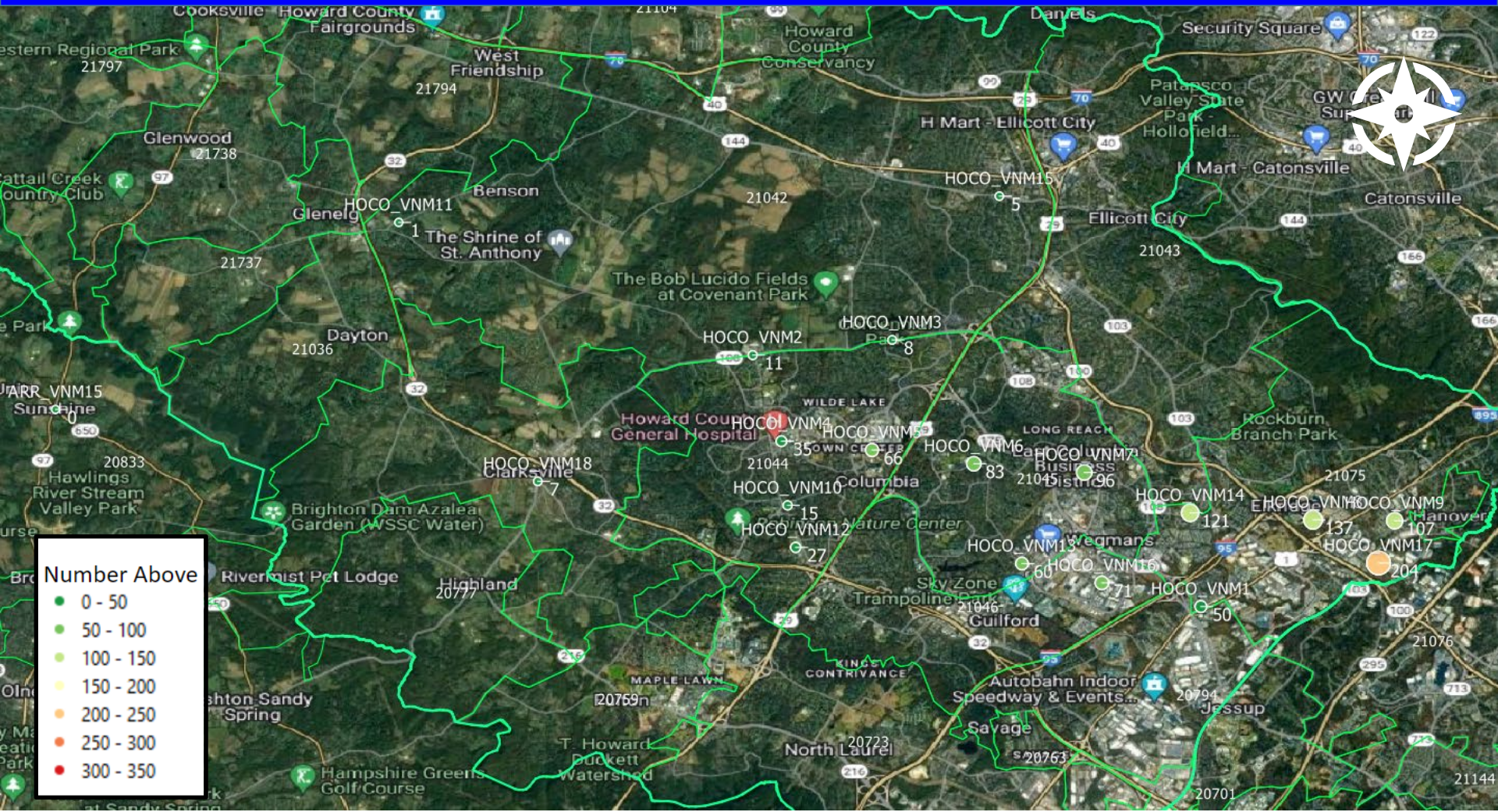
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average) Howard County – Landmark Locations



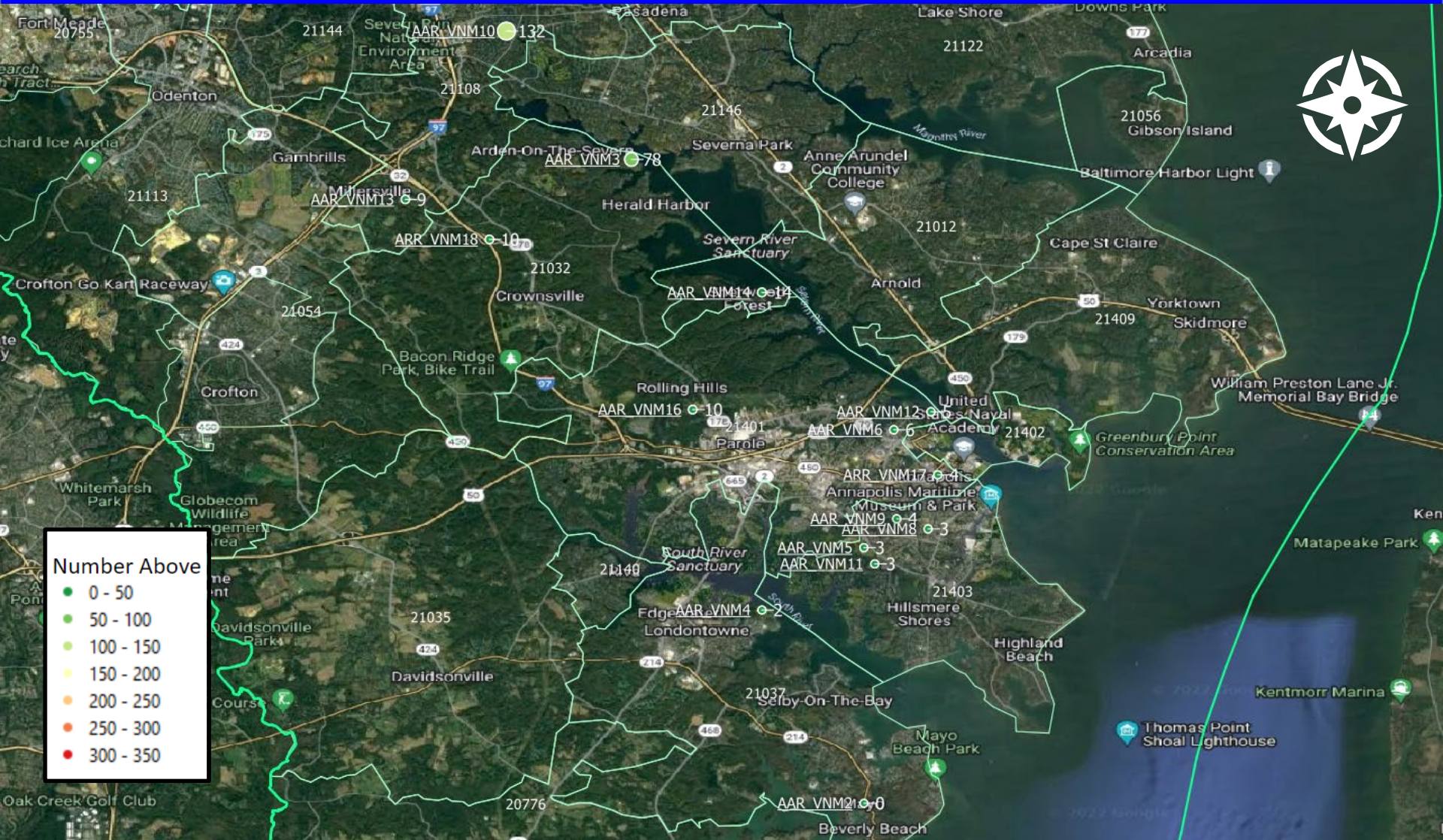
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average) Anne Arundel County – Landmark Locations



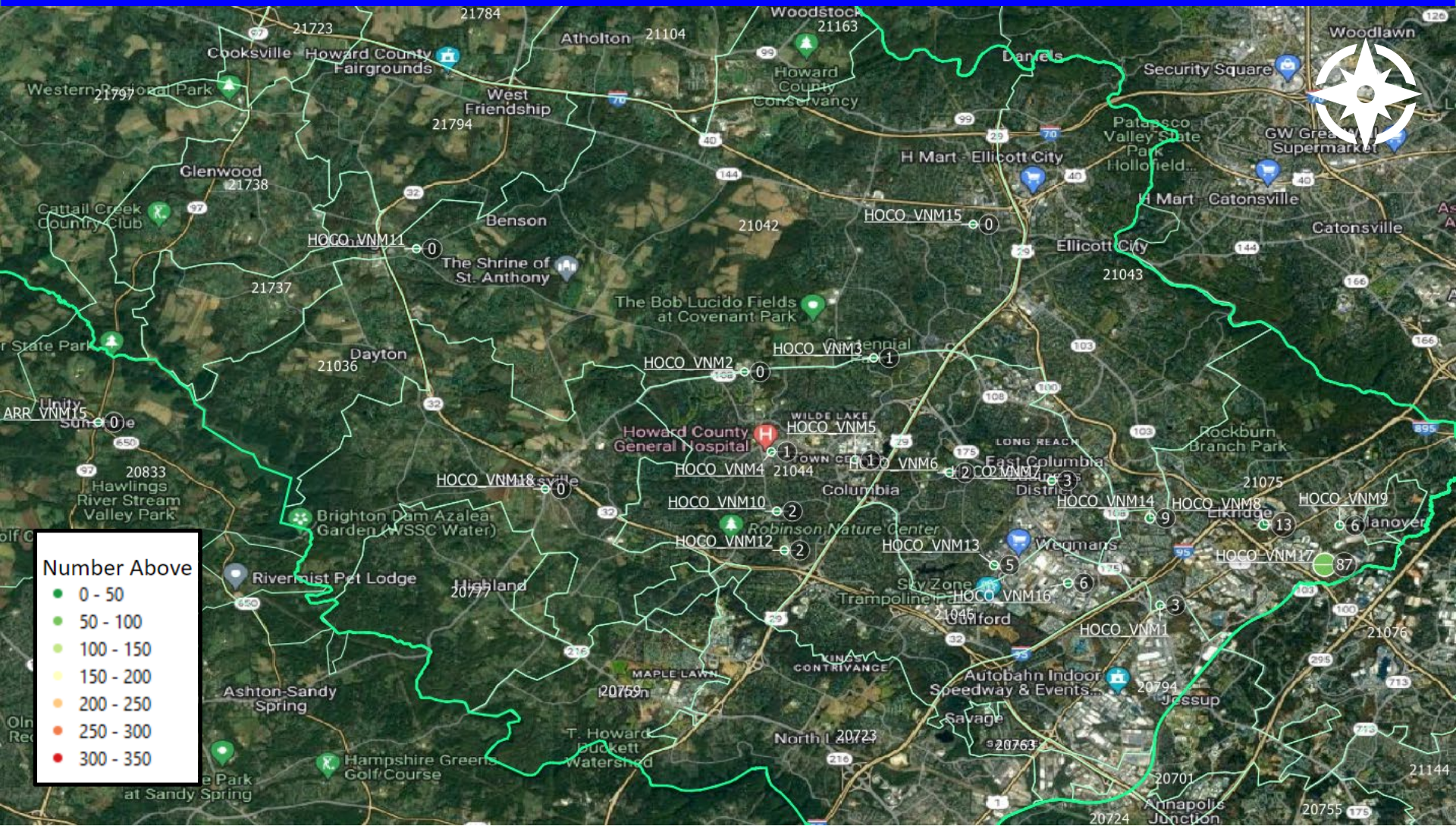
# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average) Howard County – Landmark Locations



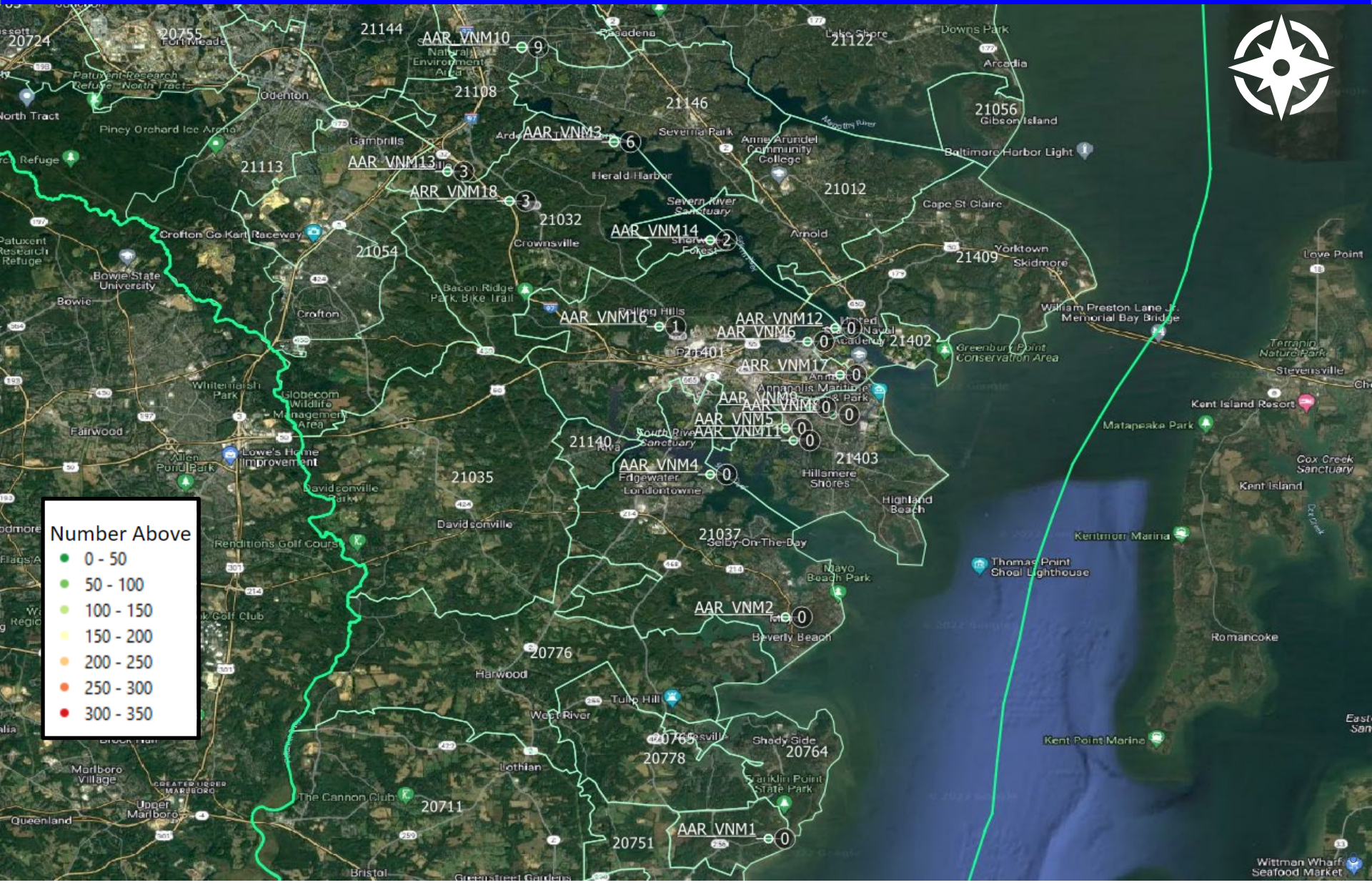
# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average) Anne Arundel County – Landmark Locations



# Noise Exposure: Number-of-Events-Above 75 dBA (Daily Average) Howard County – Landmark Locations



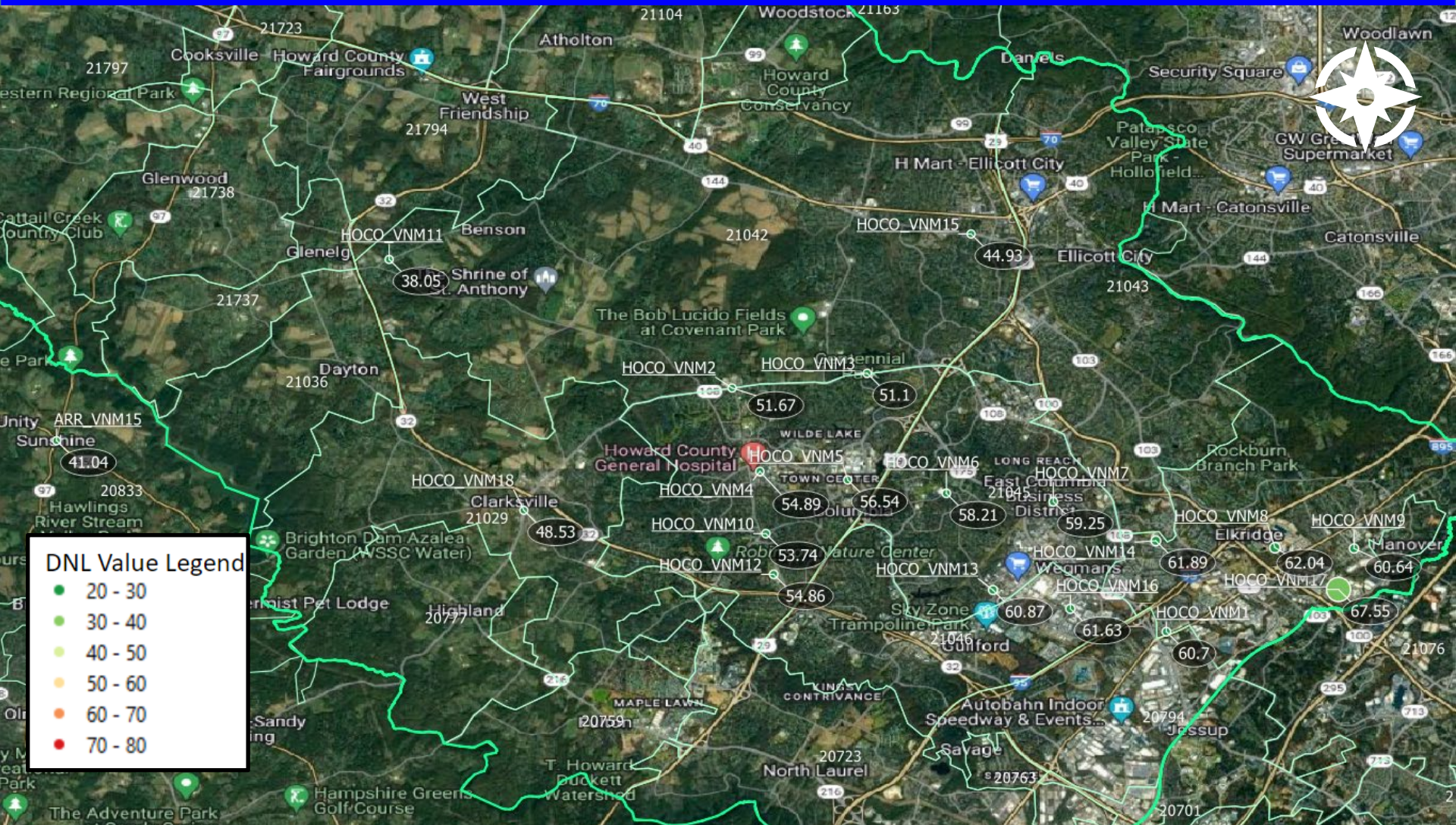
# Noise Exposure: Number-of-Events-Above 75 dBA (Daily Average) Anne Arundel County – Landmark Locations





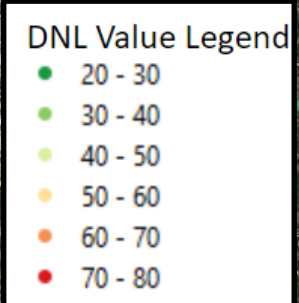
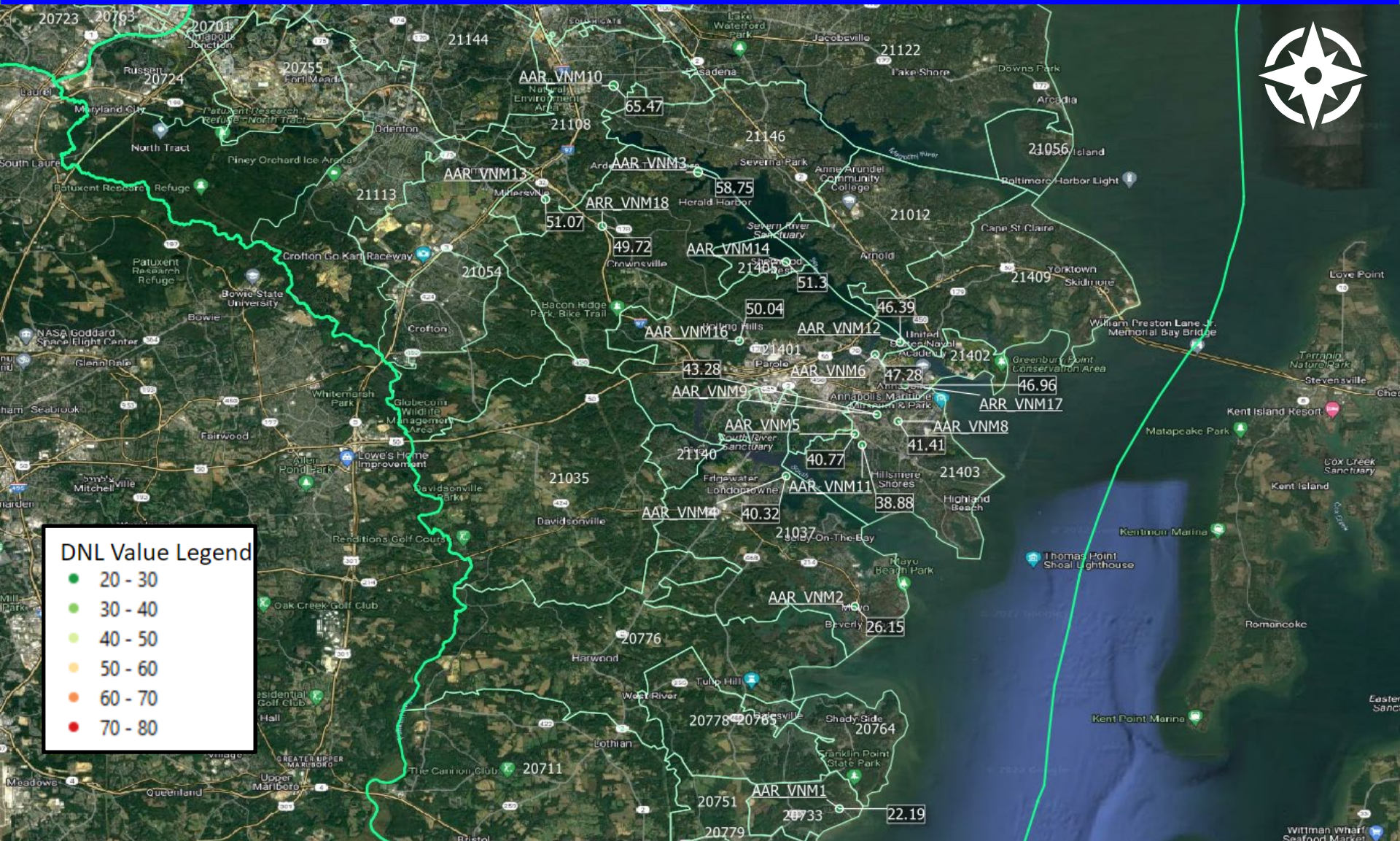
# Noise Exposure: DNL (Daily Average)

## Howard County – Landmark Locations

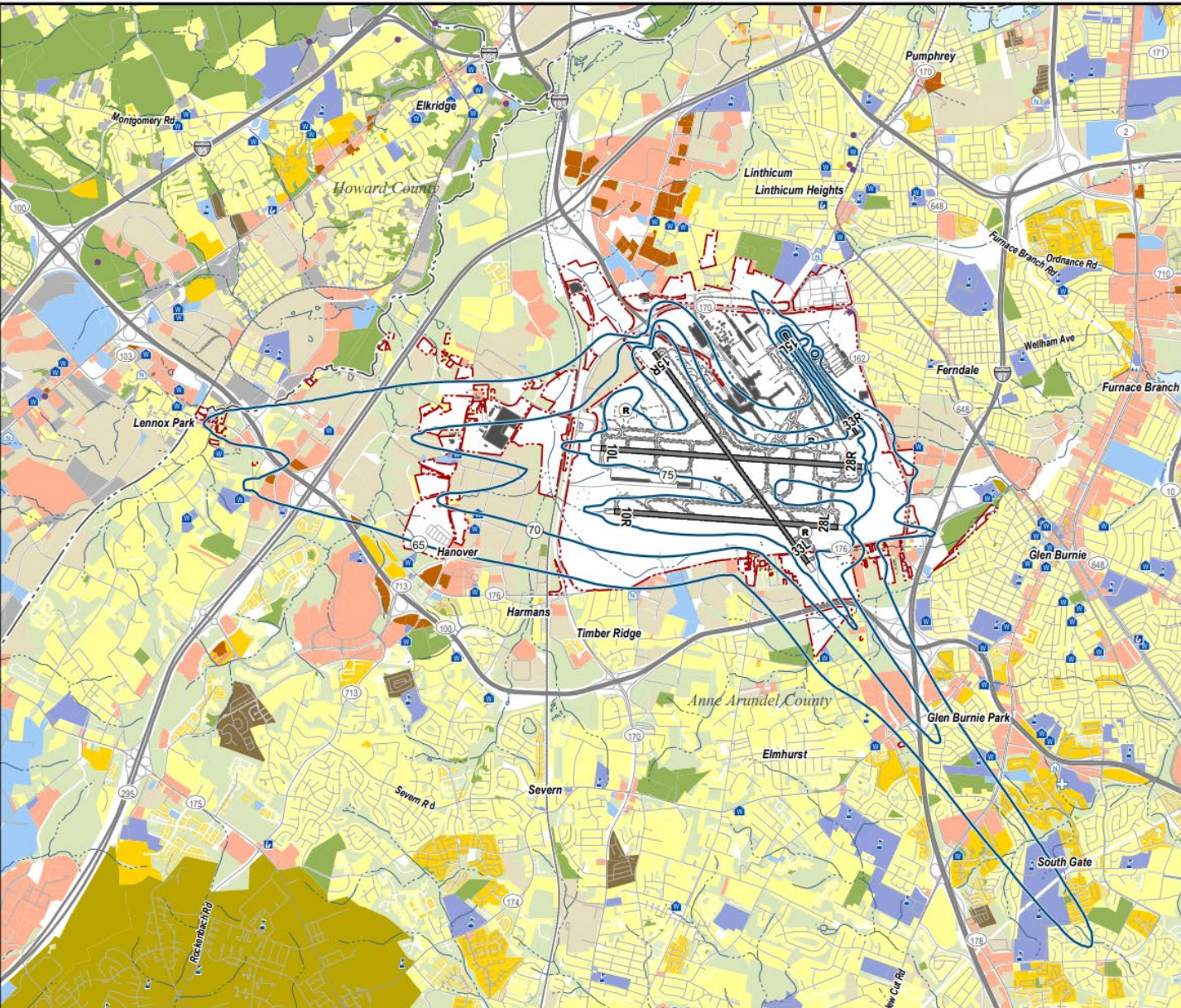


# Noise Exposure: DNL (Daily Average)

## Anne Arundel County – Landmark Locations



# Noise Exposure – DNL Contours (BWI)



## Airport Noise Zone Update

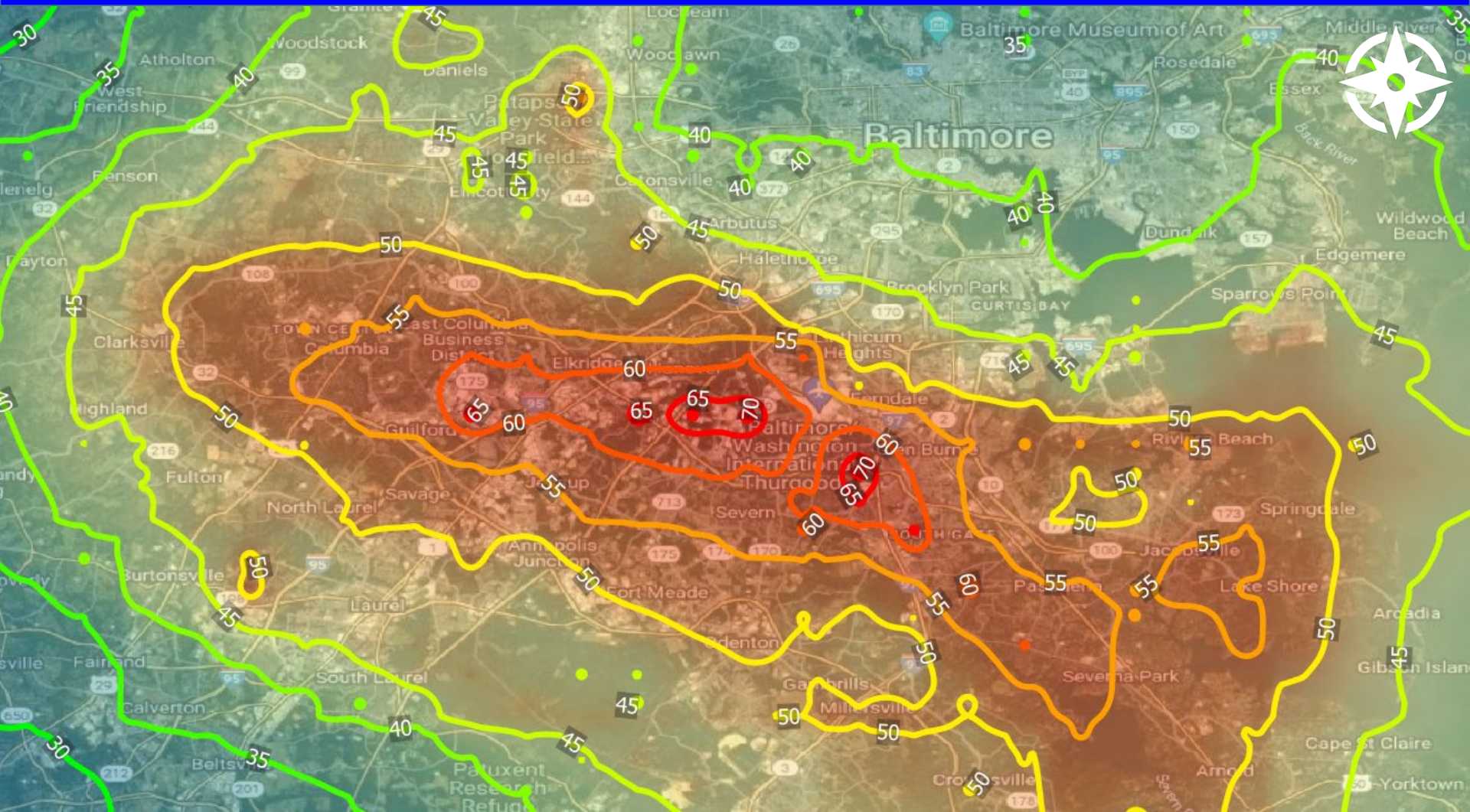
Figure 27  
BWI Marshall ANZ Update 2020 ANZ Contours

- 2020 ANZ DNL Contours
- MDOT MAA Property Boundary
- Runup Locations
- Helicopter Operation Area
- Runway
- Airport Buildings
- Airport Pavement Edge
- County Boundary
- Roads
- Railroad
- Stream / Creek
- Residential Use
- Multi-Family Residential Use
- Mobile Home
- Transient Lodging
- Mixed Use
- Public Use (Non-Compatible)
- Public Use (Compatible)
- Water
- Military Use
- Commercial Use
- Manufacturing / Production
- Vacant / Undeveloped
- Recreational / Open Space
- Golf
- Transportation / Utility
- School
- Place of Worship
- Nursing / Assisted Living
- Library
- Hospital / Health Care
- Historic Place (NRHP)

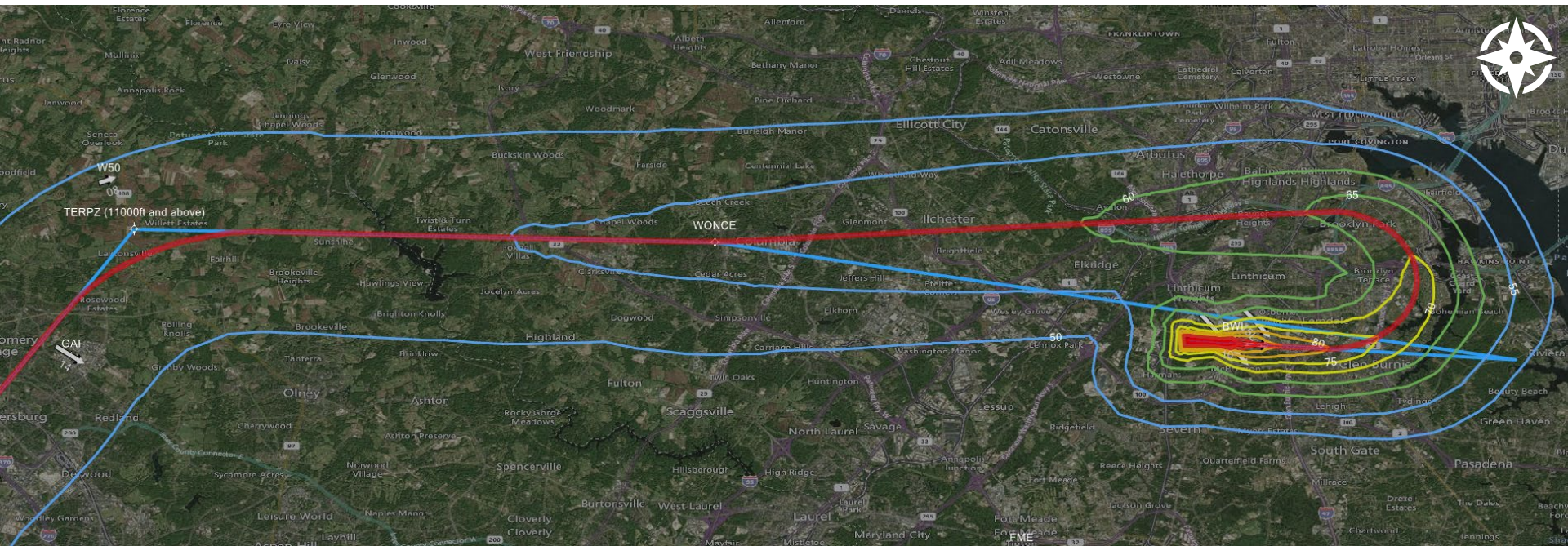
Data Sources: MDOT MAA; Anne Arundel County; Howard County; Baltimore County Government; Open Data Portal; National Register of Historic Places (NRHP); Environmental Systems Research Institute (ESRI); AirNav.com; HMMH



# Noise Exposure – DNL Contours

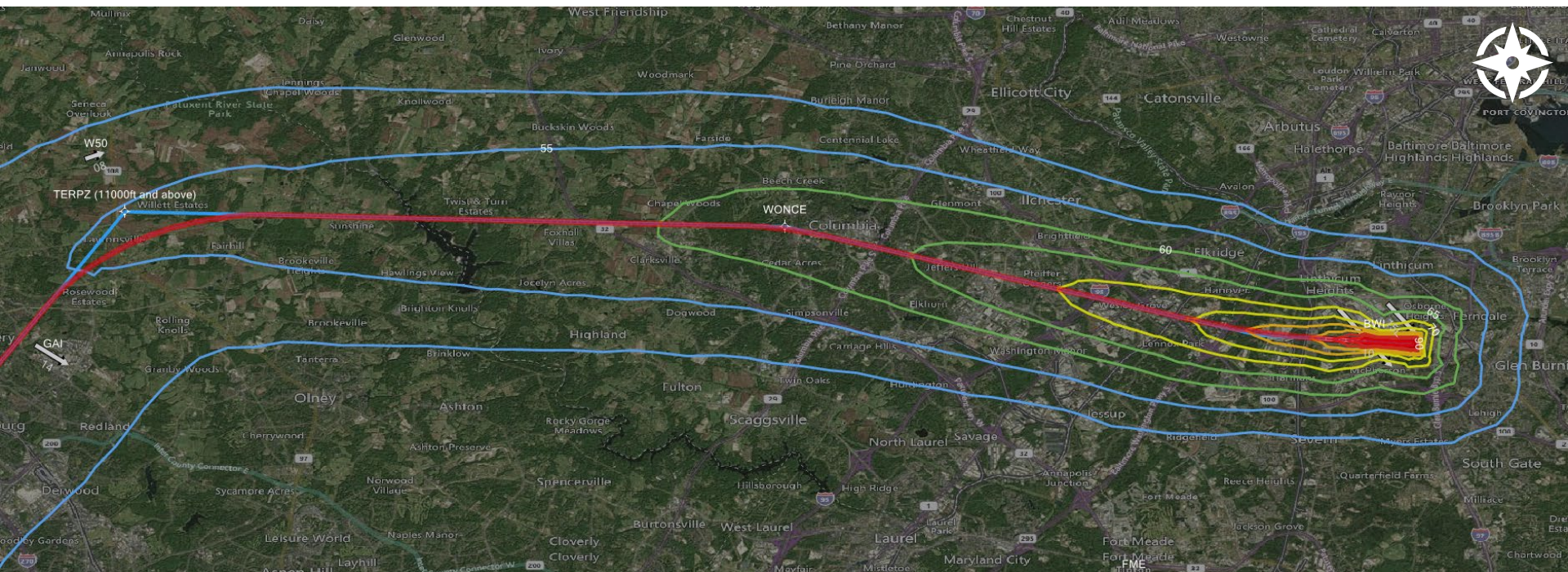


# L<sub>max</sub> 737-700 Departure RWY 10



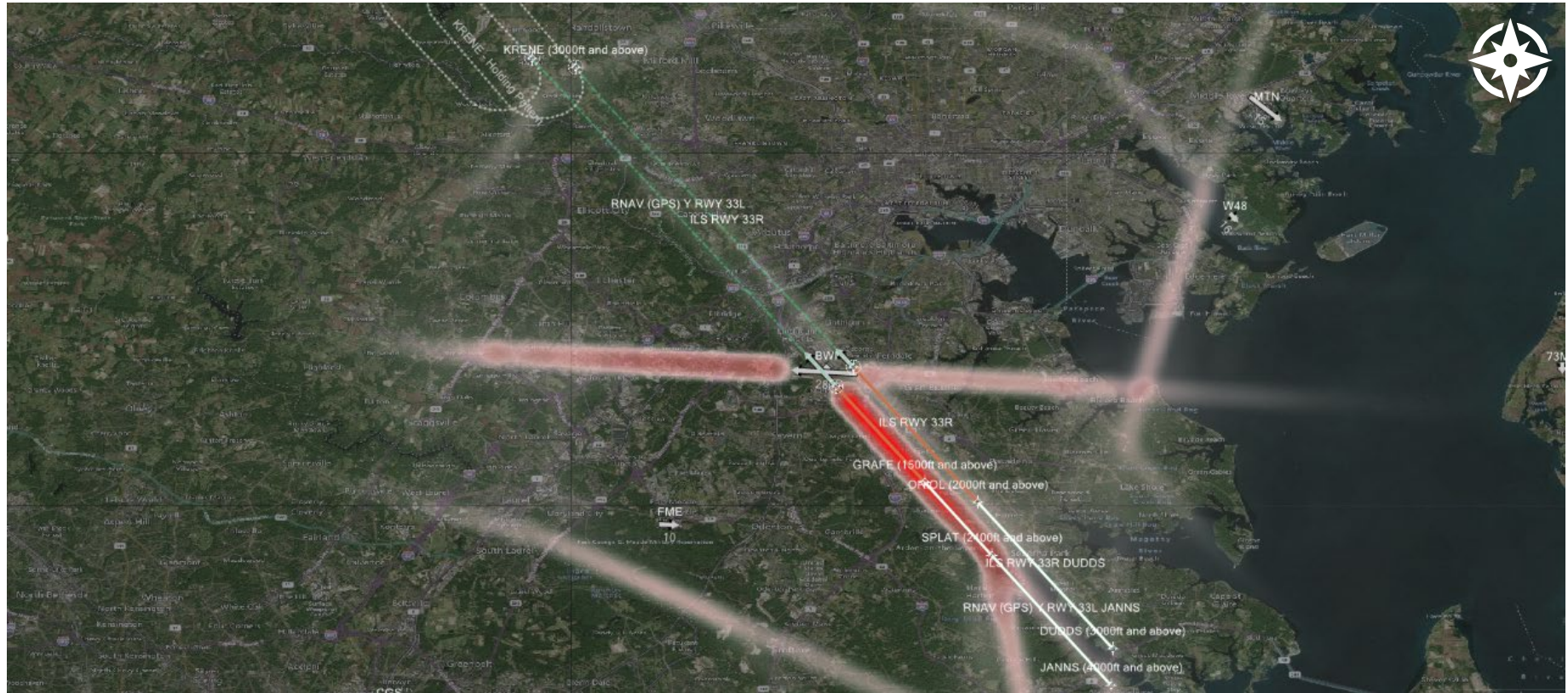
Aircraft Type: B737-700  
Stage Length: 3  
Standard Profile

# L<sub>max</sub> 737-700 Departure RWY 28



Aircraft Type: B737-700  
Stage Length: 3  
Standard Profile

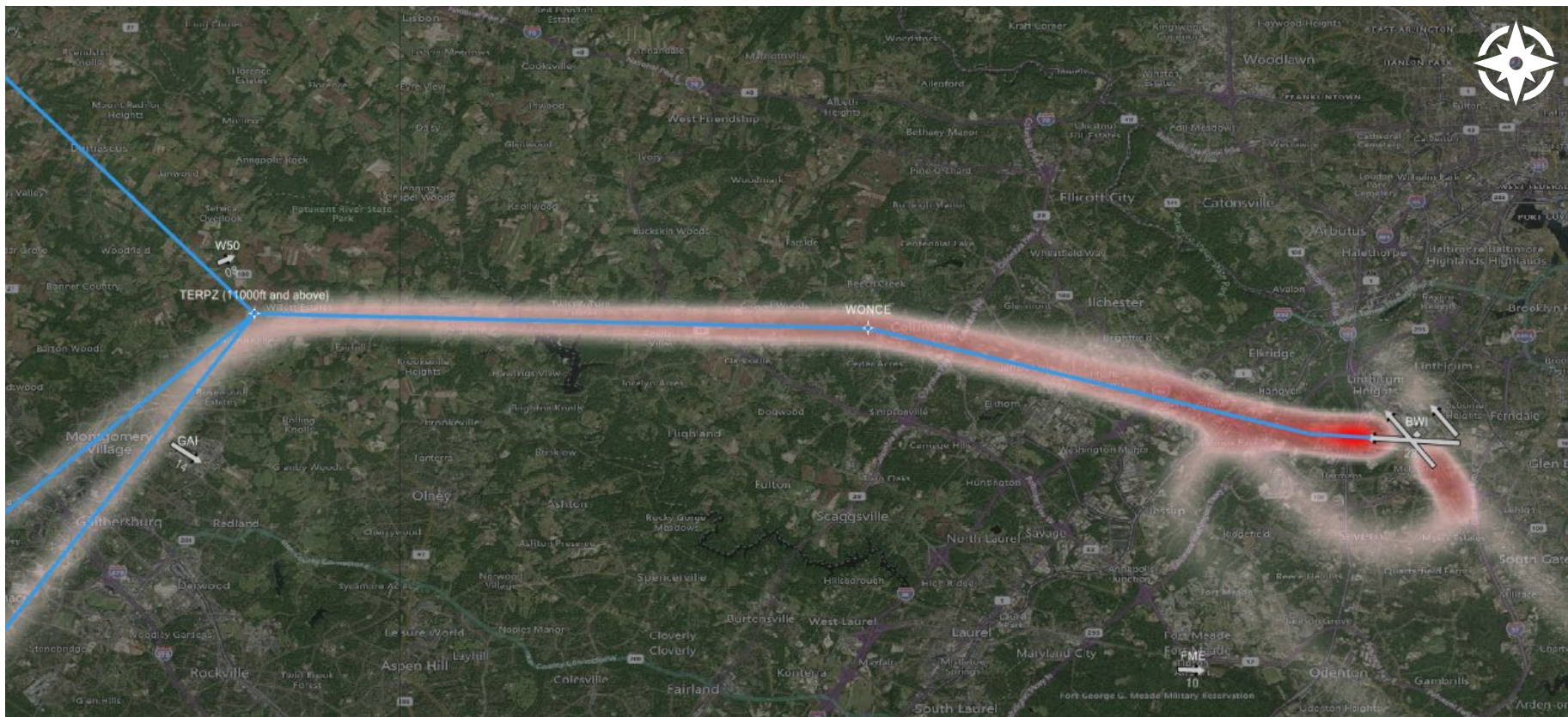
# Flight Operations: Arrivals



*March 2022 KBWI all arrivals heatmap.*

*Note – Showing overlaid approach procedures for runways 33L and 33R.*

# Flight Operations: Departures



*TERPZ SID on top of the March 2022 Departure track heatmap.*



For More Information . . .



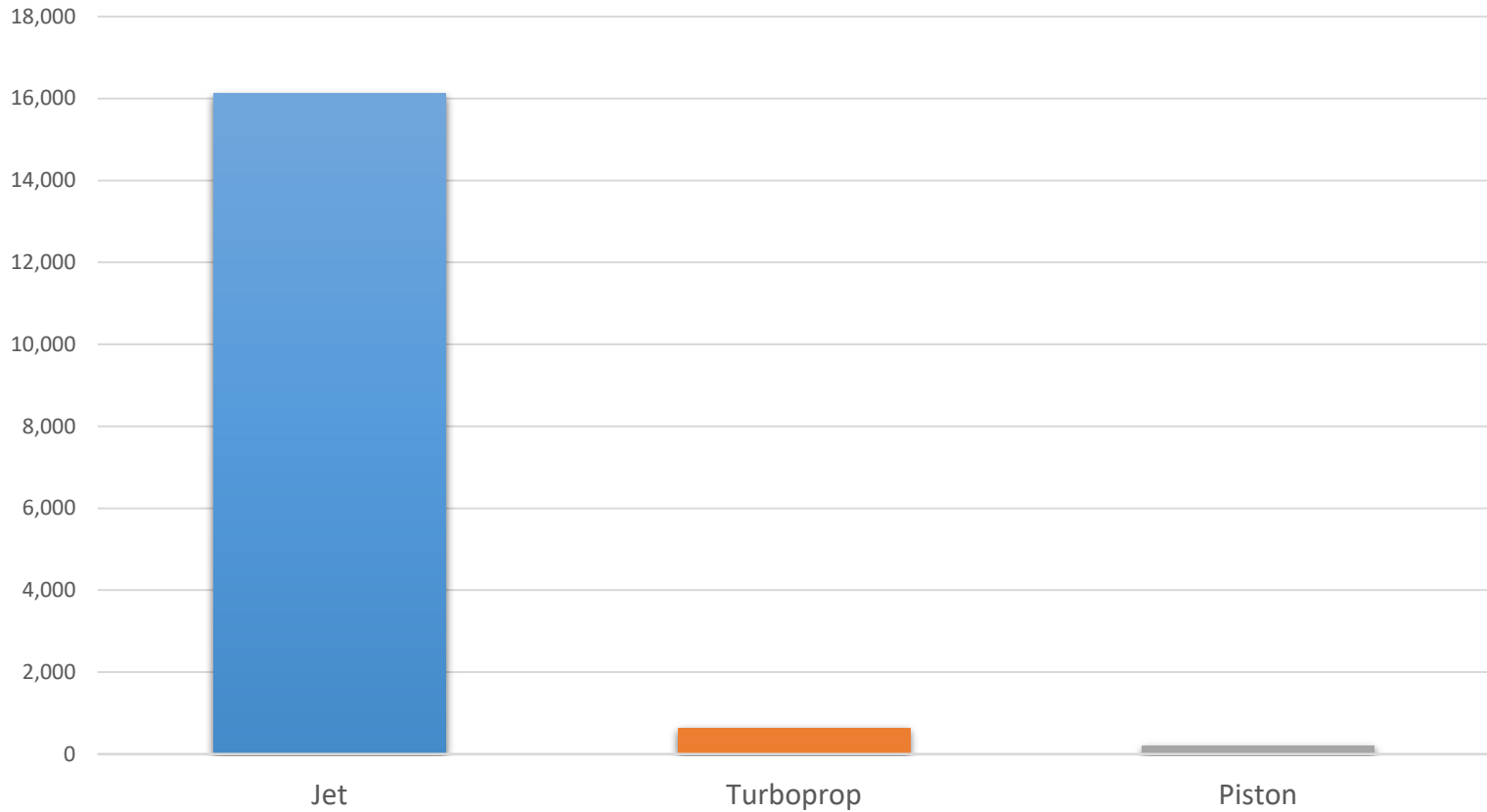
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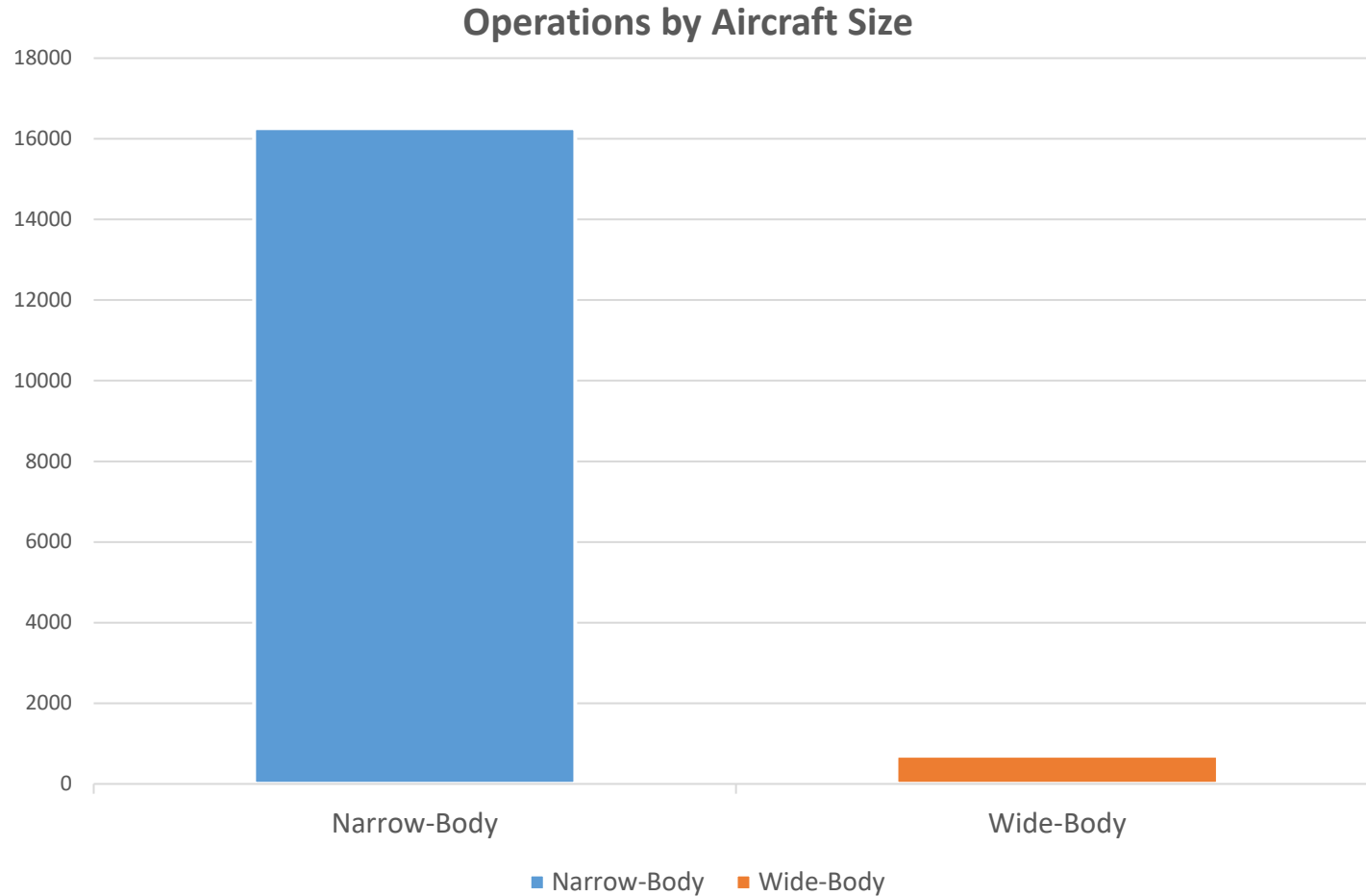
Extra Slides

# Fleet Mix: Engine Type

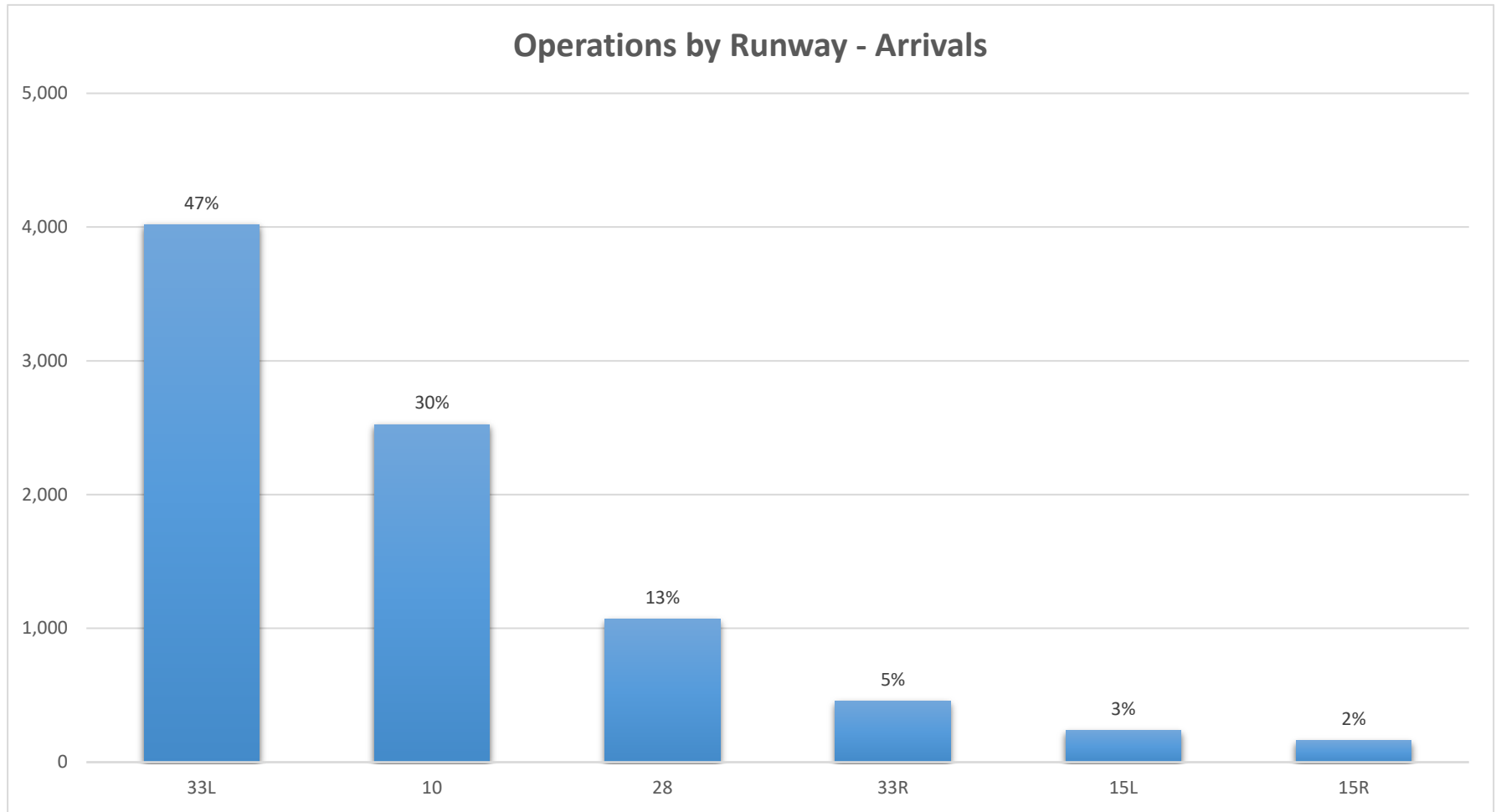
## Operations by Engine Type



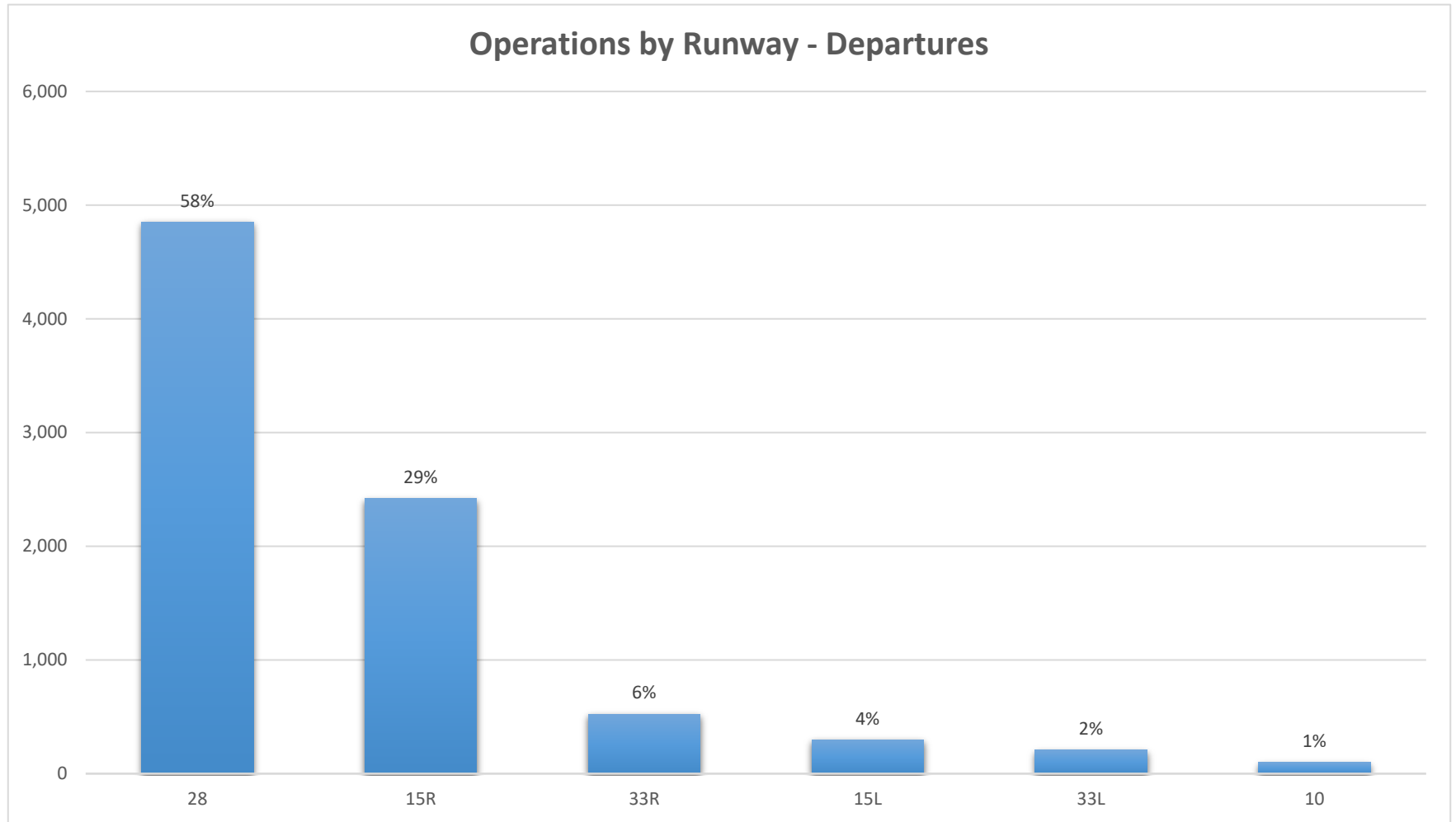
# Fleet Mix: Widebody vs. Narrowbody



# Runway Use - Arrivals



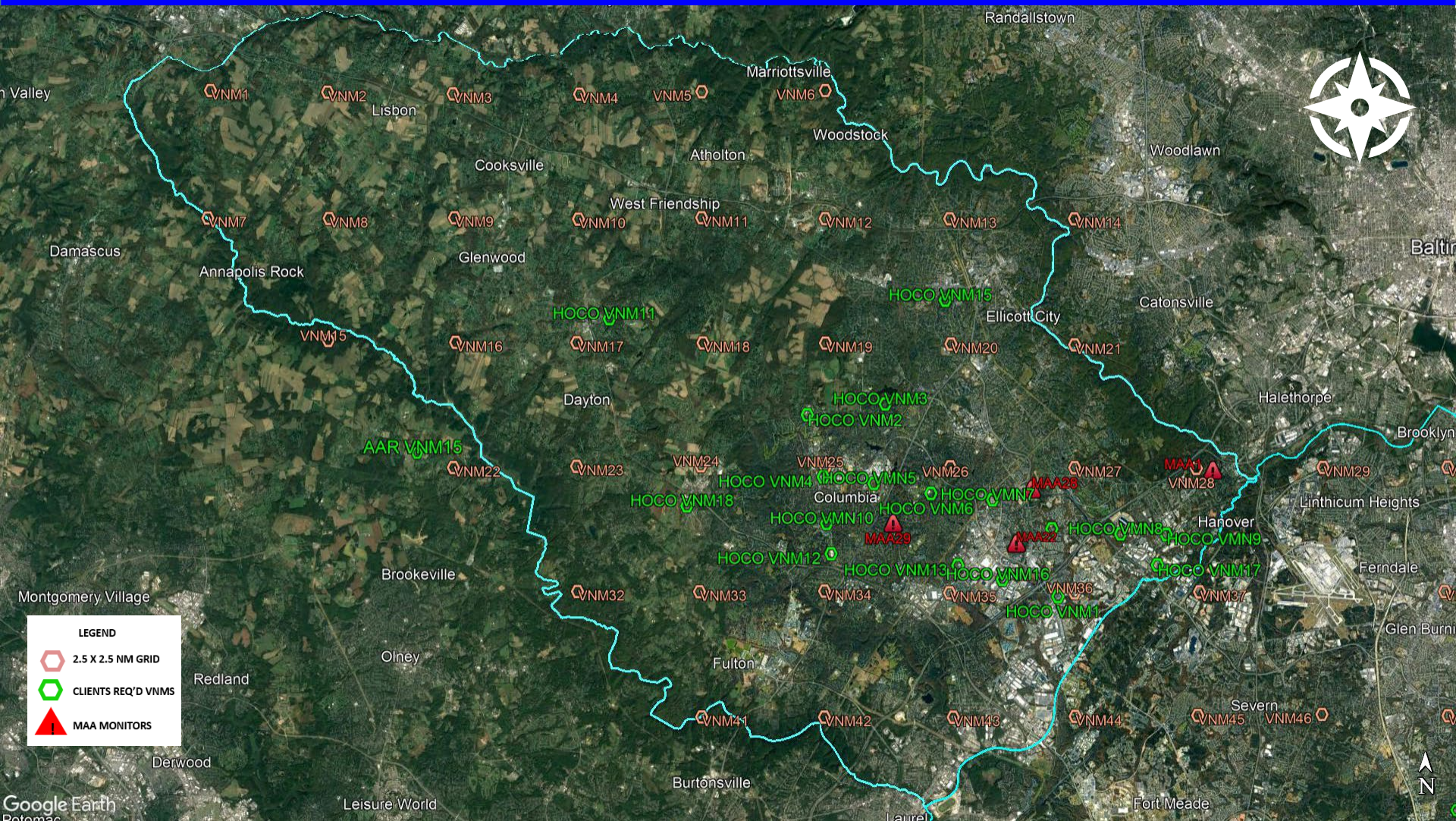
# Runway Use - Departures



# Noise Exposure: Time-Above

Will be available in future update

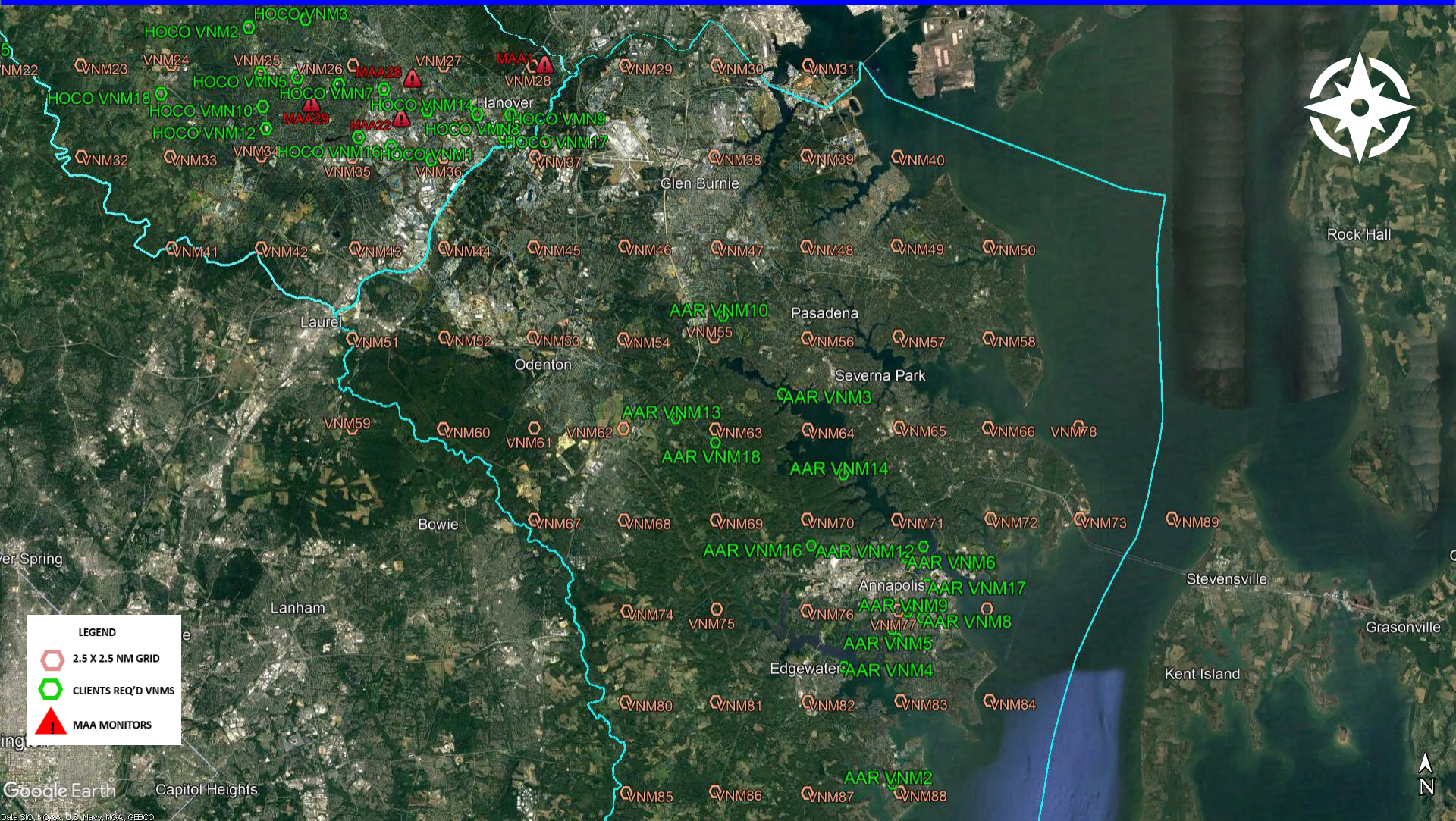
# Virtual Noise Monitor Locations – Howard County



*Added BWI NM locations*

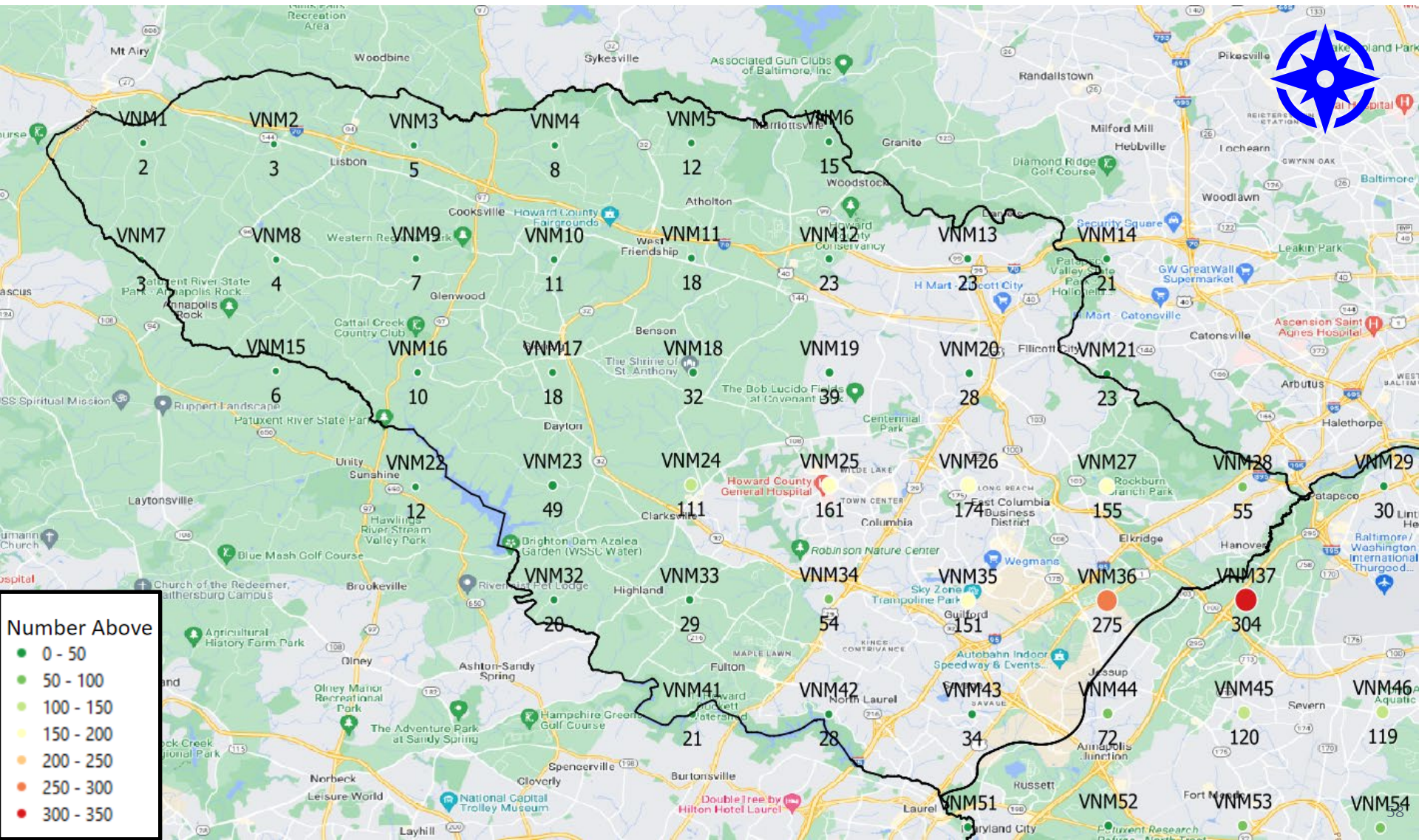


# Virtual Noise Monitor Locations – Anne Arundel County

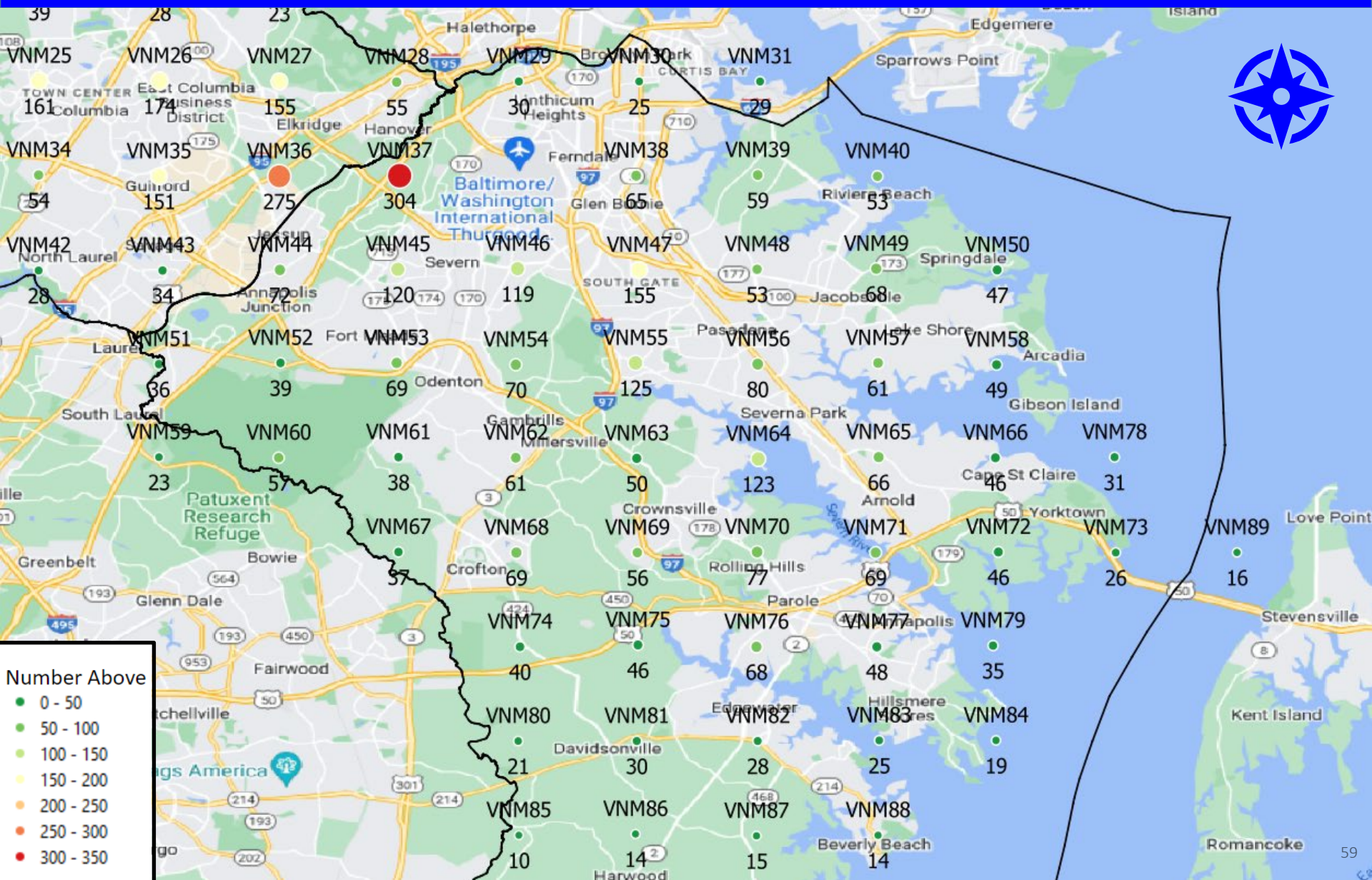


*Added BWI NM locations*

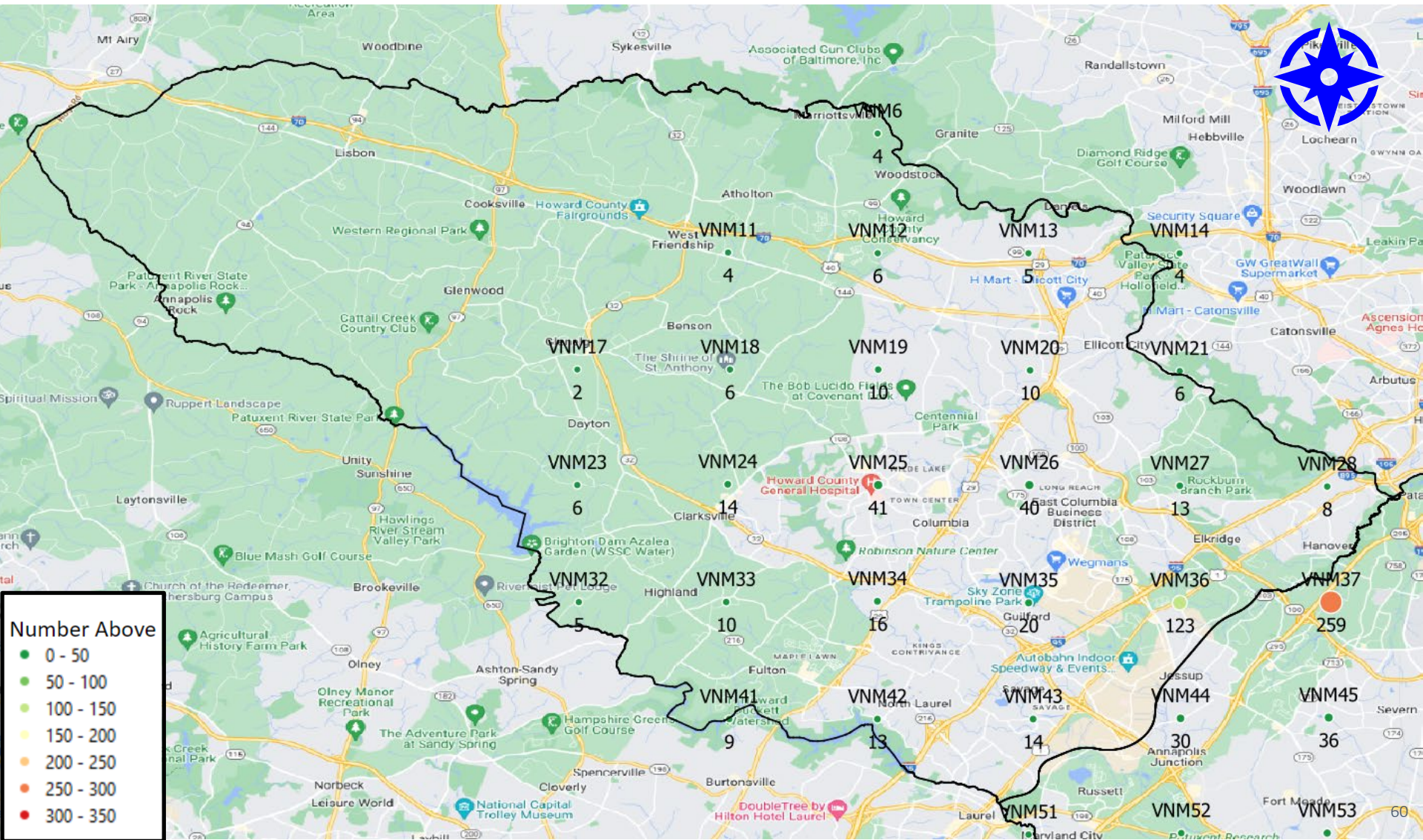
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average)



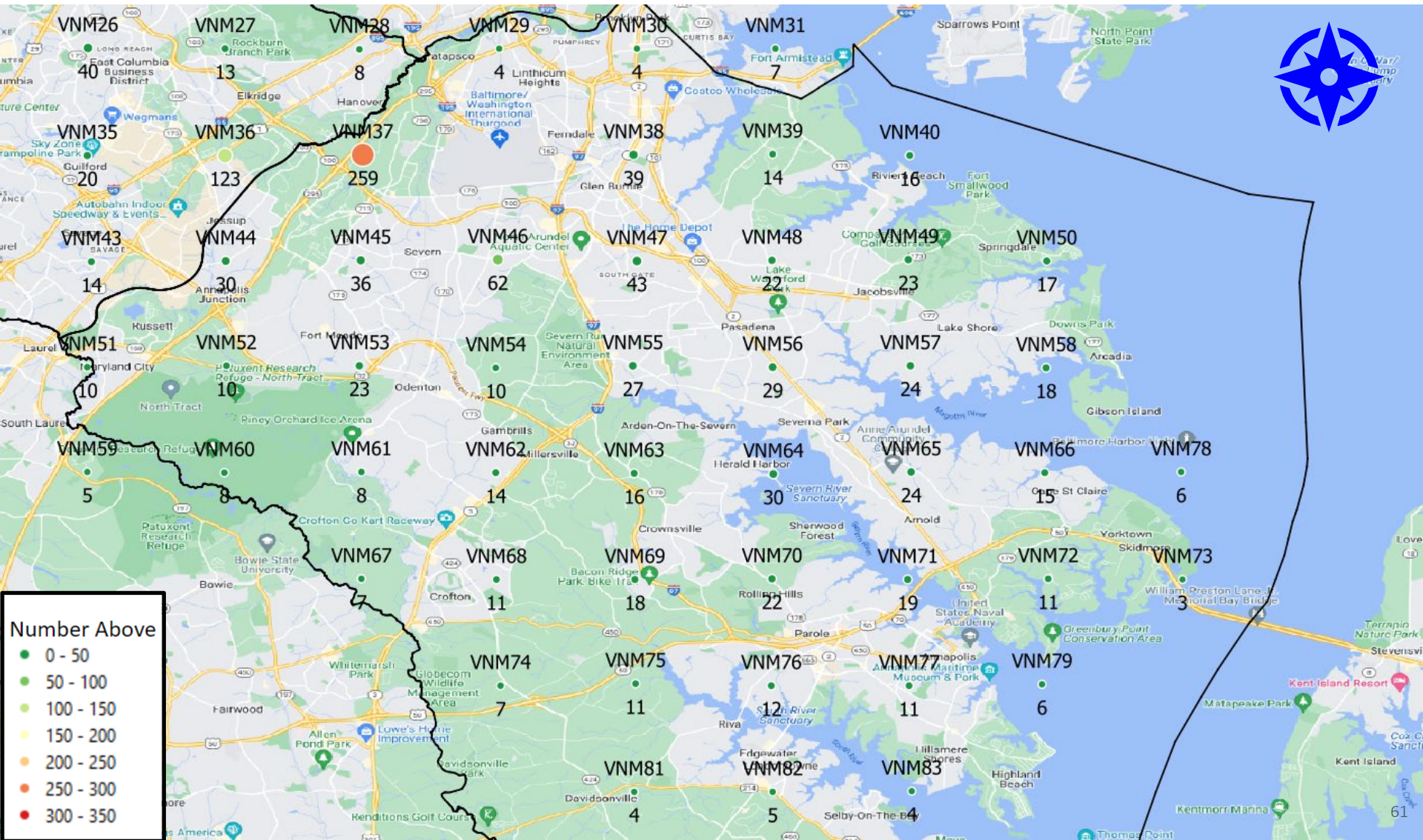
# Noise Exposure: Number-of-Events-Above 55 dBA (Daily Average)



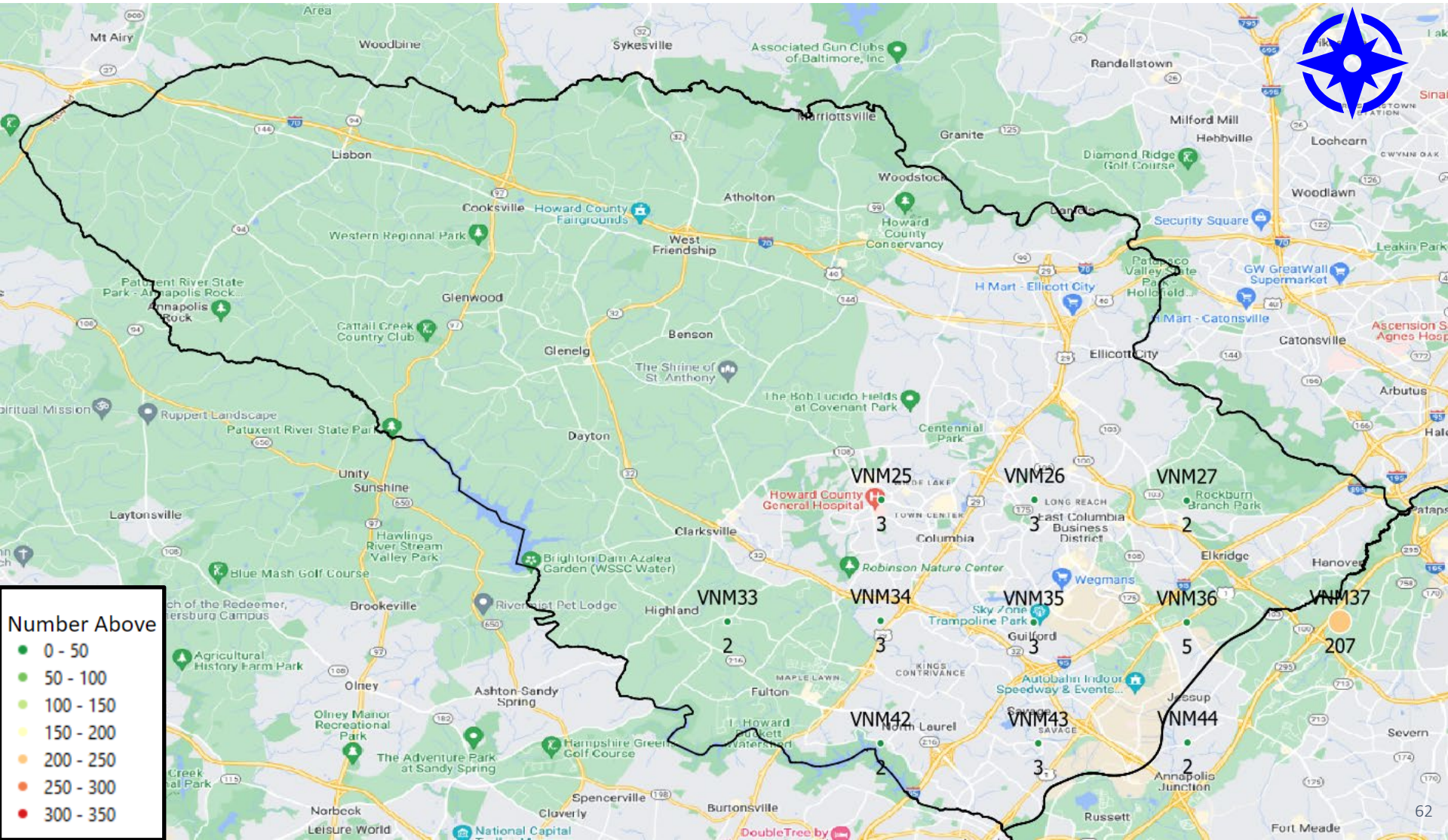
# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average)



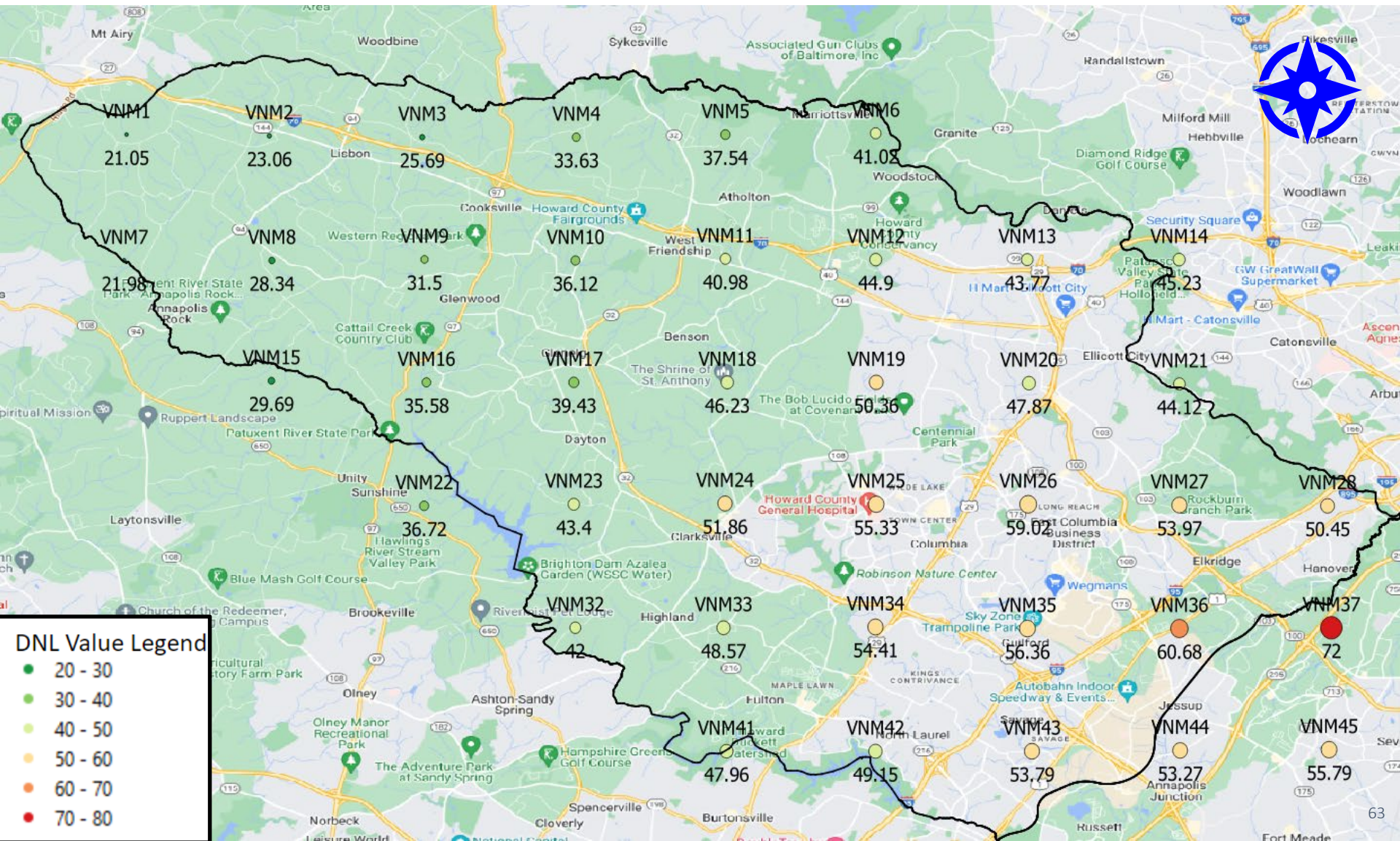
# Noise Exposure: Number-of-Events-Above 65 dBA (Daily Average)



# Noise Exposure: Number-of-Events-Above 75 dBA (Daily Average)



# Noise Exposure: DNL



# Noise Exposure: DNL

