

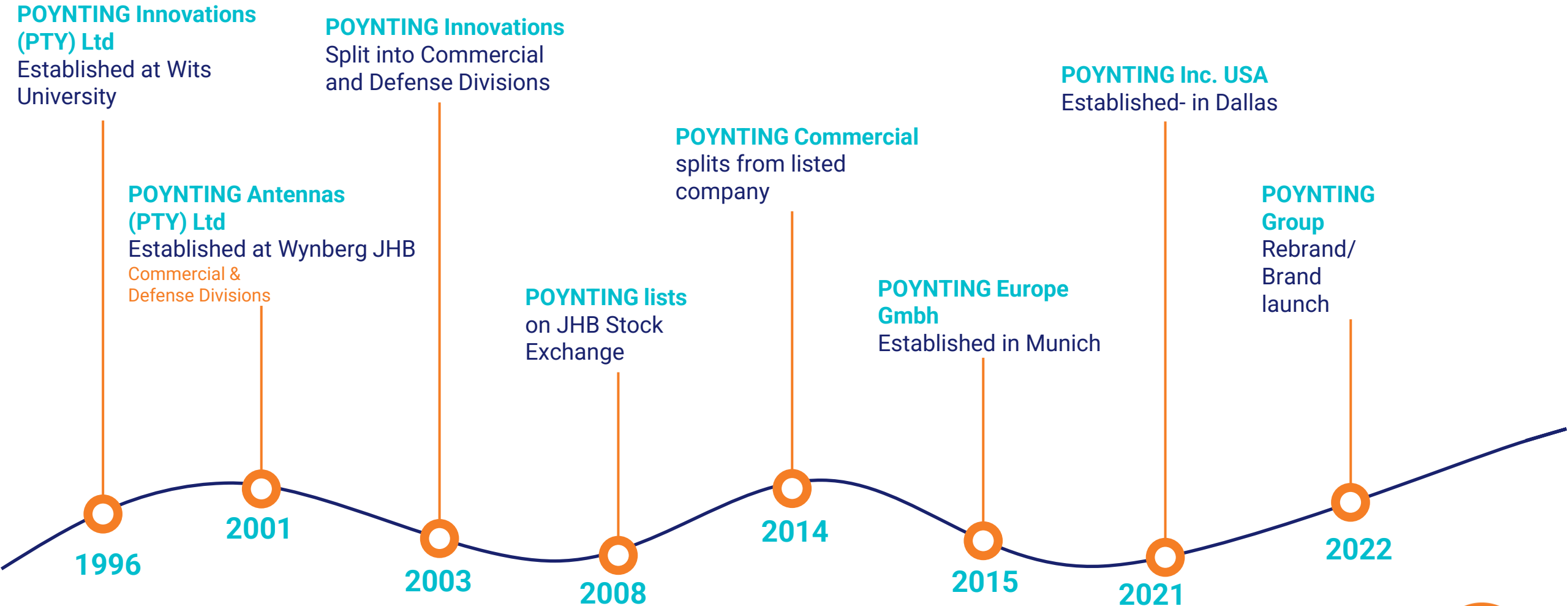
A hand composed of a dense field of colorful stars (purple, blue, green, and pink) reaches from the left side of the frame towards a large, solid orange circle. The background is a dark, starry space with a nebula-like glow in shades of blue and purple. The text is overlaid on the right side of the orange circle.

**CONNECTED  
BEYOND LIMITS  
WAVEHUNTER**

Presented by: Hugo Carvalho

# POYNTING ANTENNAS

# POYNTING ANTENNAS



Radiation Patterns  
Authentic and Trustworthy  
Built to last  
Quality by design






**POYNTING  
&  
MARITIME ANTENNAS**

# BECOMING MARKET LEADERS





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- First maritime antenna sold
  - Model: OMNI-291-v1
  - Date: 2016
- Number of Maritime antennas sold (last 3 years): 14.000+
- Number of quality/warranty claims (last 3 years): 8

# OMNI ANTENNA RANGE – MARINE & COASTAL OMNI-DIRECTIONAL ANTENNAS

Image	Product Name	Description	Frequency Bands	Peak Gain	Polarisation	Type	Dimensions (mm)
	<b>OMNI-291</b>	Omni Directional, Marine & Coastal LTE Antenna; IP 68	450 – 2700 MHz	7 dBi	Linear, Vertical	Omni-Directional	555 x Ø75
	<b>OMNI-403</b>	Omni-Directional Marine and Coastal LTE Antenna; IP 68	617 – 2700 MHz	5 dBi	Linear, Vertical	Omni-Directional	252 x Ø75
	<b>OMNI-404</b>	Omni-Directional Marine and Coastal LTE/5G Antenna; IP 68	617 – 3800 MHz	2.5 dBi	Linear, Vertical	Omni-Directional	252 x Ø75

# OMNI ANTENNA RANGE – MARINE & COASTAL OMNI-DIRECTIONAL ANTENNAS







Image	Product Name	Description	Frequency Bands	Peak Gain	Polarisation	Type	Dimensions (mm)
	<b>OMNI-400</b>	Omni-Directional, Marine & Coastal LTE Antenna; IP 68	698 – 2700 MHz	7.5 dBi	Linear, Vertical	Omni-Directional	555 x Ø75
	<b>OMNI-402</b>	Omni-Directional, Marine & Coastal LTE/5G Antenna; 2X2 MIMO; IP 68	410 – 3800 MHz	6.2 dBi	Linear, Vertical	Omni-Directional	750 x 75 x 75
	<b>OMNI-414</b>	Omni-Directional, 4x4 MIMO Marine & Coastal Wideband LTE/5G Antenna; IP 68	617 – 3800 MHz	4 dBi	Linear, Vertical	Omni-Directional	750 x 75 x 75
	<b>OMNI-493</b>	Omni-Directional, Marine & Coastal Wideband LTE/5G Antenna; IP 68	617 – 3800 MHz	9 dBi	Linear, Vertical	Omni-Directional	750 x 75 x 75

NEW

NEW



# OMNI ANTENNA RANGE – MARINE & COASTAL OMNI-DIRECTIONAL ANTENNAS

Image	Product Name	Description	Frequency Bands	Peak Gain	Polarisation	Type	Dimensions (mm)
 	<b>OMNI-902</b>	Omni-Directional, 2x2 MIMO Marine & Coastal 5G/LTE Antenna; IP 68	617 – 4200 MHz	8dBi	Linear, Vertical	Omni-Directional	1654 x Ø145
 	<b>OMNI-904</b>	Omni-Directional, 4x4 MIMO Marine & Coastal 5G/LTE Antenna; IP 68	617 – 4200 MHz	3 dBi & 8 dBi	Linear, Vertical	Omni-Directional	1654 x Ø145
 	<b>OMNI-914</b>	Omni-Directional, 4x4 MIMO Marine & Coastal 5G/LTE Antenna; IP 68	617 – 4200 MHz	8dBi	Linear, Vertical	Omni-Directional	2454 x Ø145



POYNTING

# WAVEHUNTER™



# WAVEHUNTER: KEY CHARACTERISTICS



Frequency Band:  
617 – 4200 MHz

— A theoretical max throughput of up to 6Gbps (router and infrastructure dependent)



Multi-MIMO:  
6 (4x4 MIMO)

— A predicted max reach of 100 Km (Installation location and infrastructure dependent)



Multi-directional

— Houses the routers inside the antenna itself



2x GPS/Glonass

— Peak gain of 11dBi maximised by minimal cable loss with 75cm cables



4x Dual Band Wi-Fi

— Polarization: Horizontal, Vertical -45 & +45 degrees

— Different arrays may be used, when connecting the routers to the antennas – router configuration and selection flexibility.

— Mounting options according to industry standards

Based on the  
proven  
XPOL-2-5G

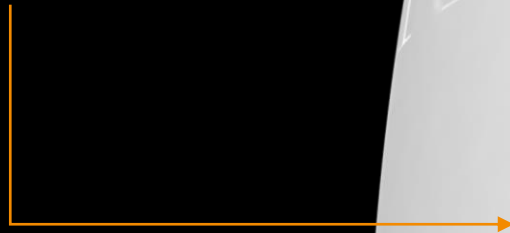


# MECHANICAL SPECIFICATIONS

# STYLISH ON THE OUTSIDE



- Antenna compartment



- Antenna base with 5G Router compartment

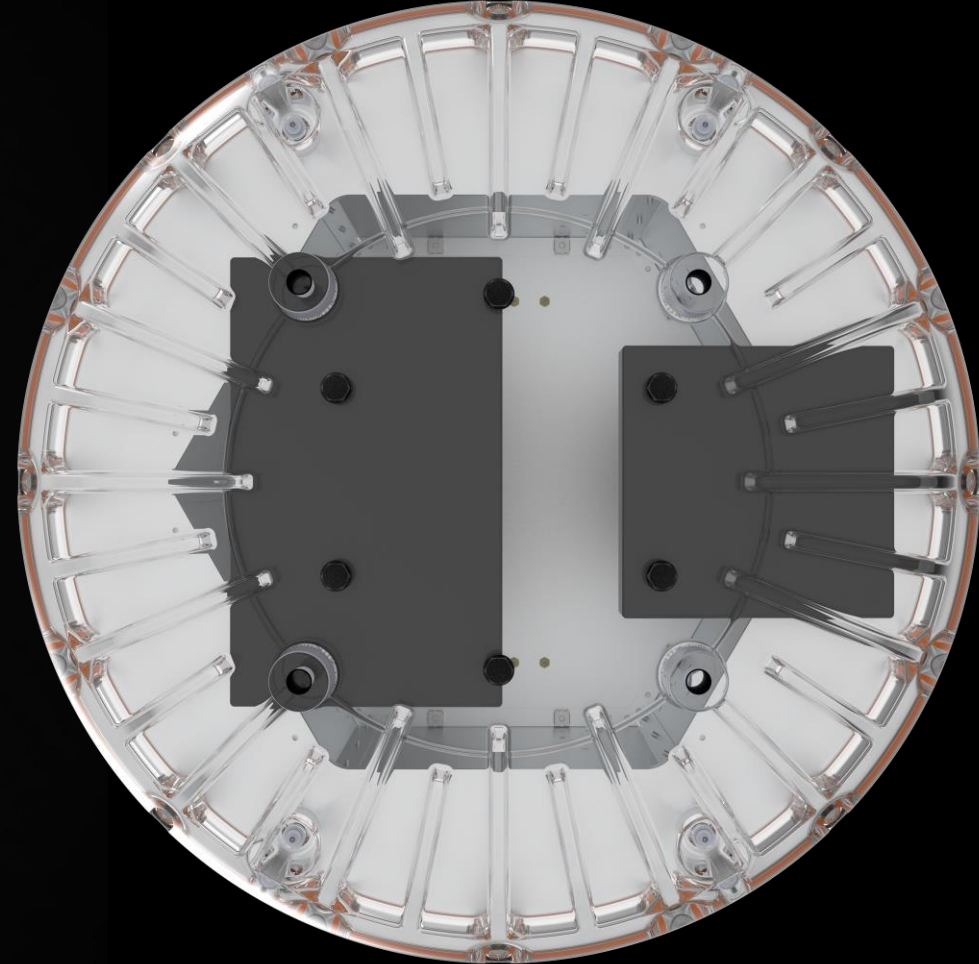
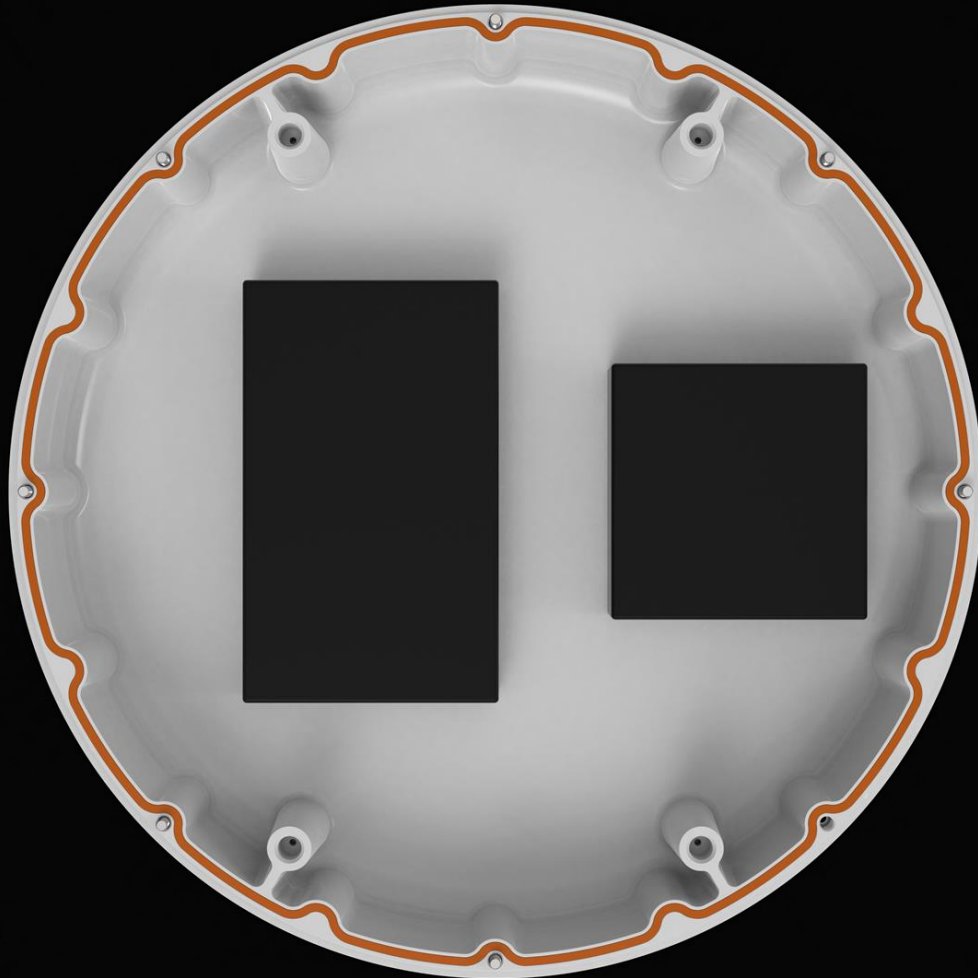


- Poynting Pedestal

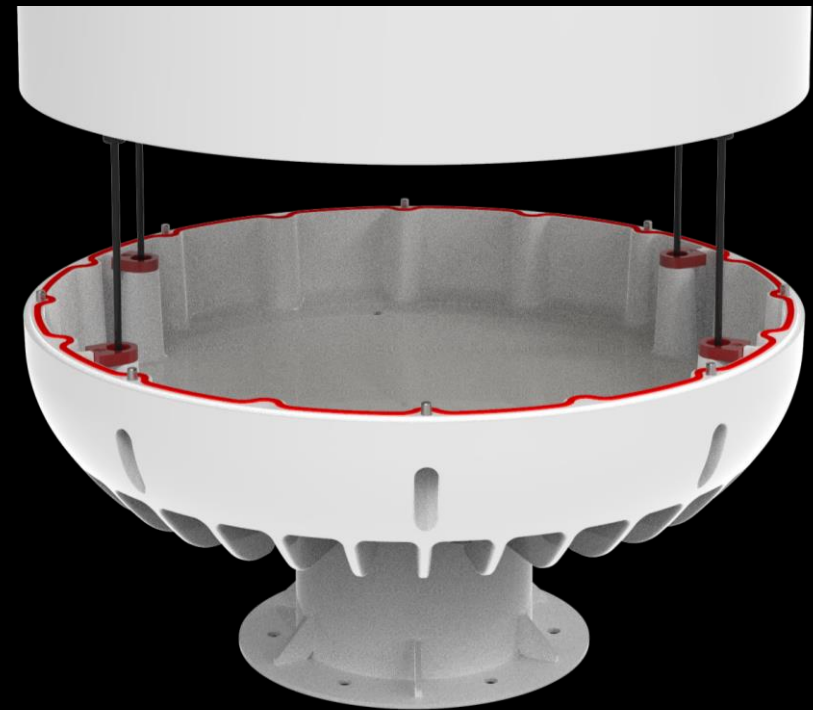


Side View with  
Poynting Pedestal  
Mounting Base

# 5G ROUTER COMPARTMENT



# ANTENNA COMPARTMENT LIFTING

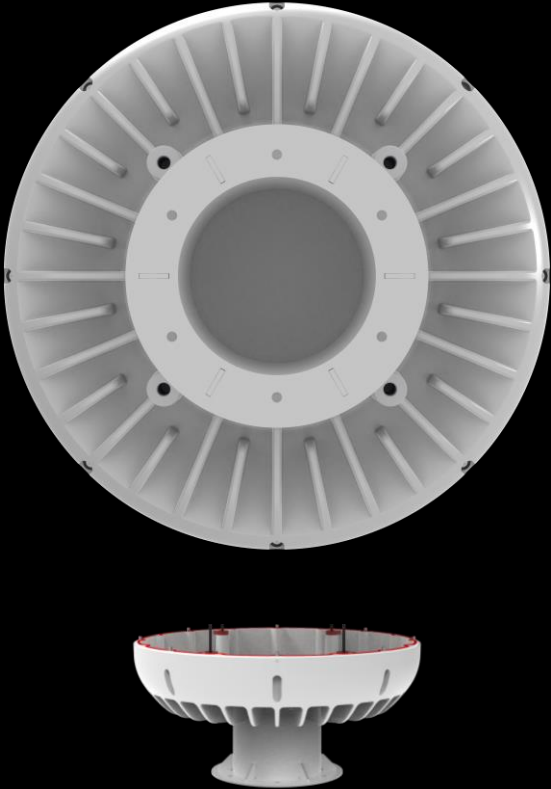




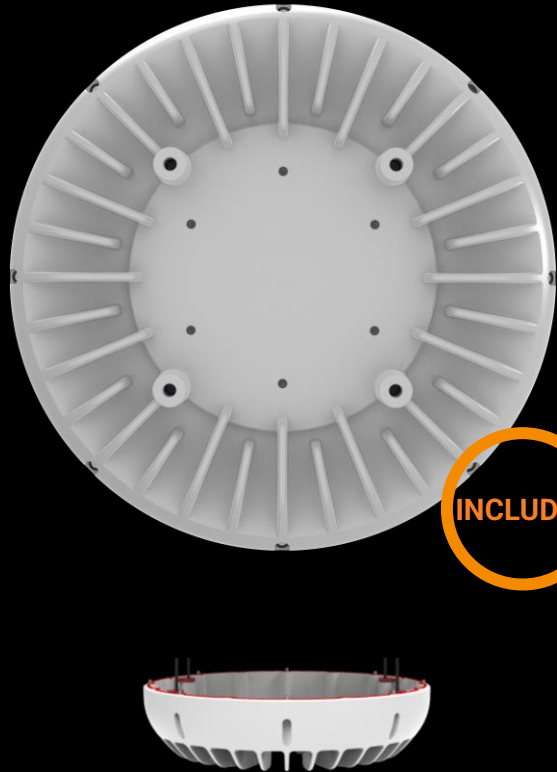
# MOUNTING OPTIONS



**POYNTING Pedestal Mounting Base**



**V-SAT Industry Standard Mounting Base**



**INCLUDED**

# ENVIRONMENTAL SPECIFICATIONS, CERTIFICATION & APPROVALS



## — Weight and Dimensions:

| Poynting Pedestal Mounting Base: 89 x 65 cm, 50kg

| V-SAT Industry Standard Mounting Base: 75 x 65 cm, 45kg

— Salt-spray protected, low pressure water jets protected, impact protected

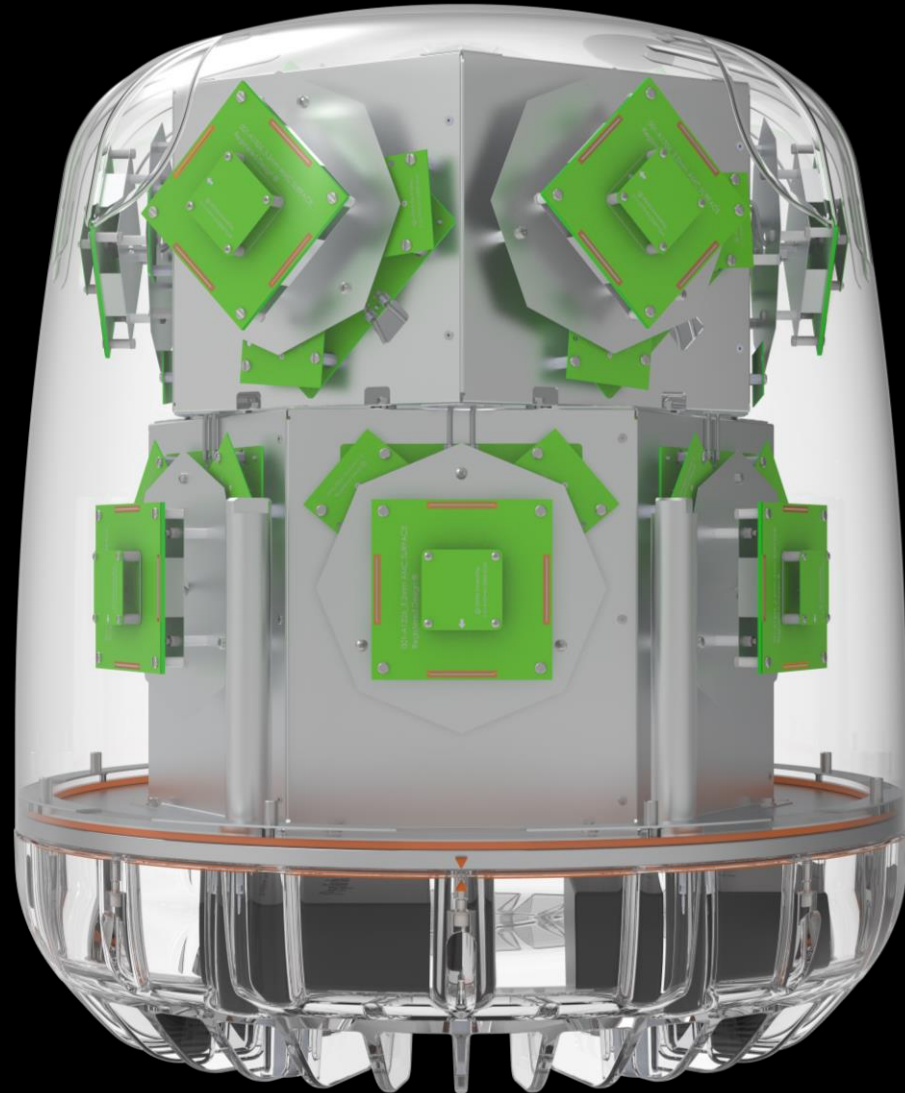
— -40°C to +80°C (System temperature limited to routers used)

— Ethernet cabling for below deck connectivity

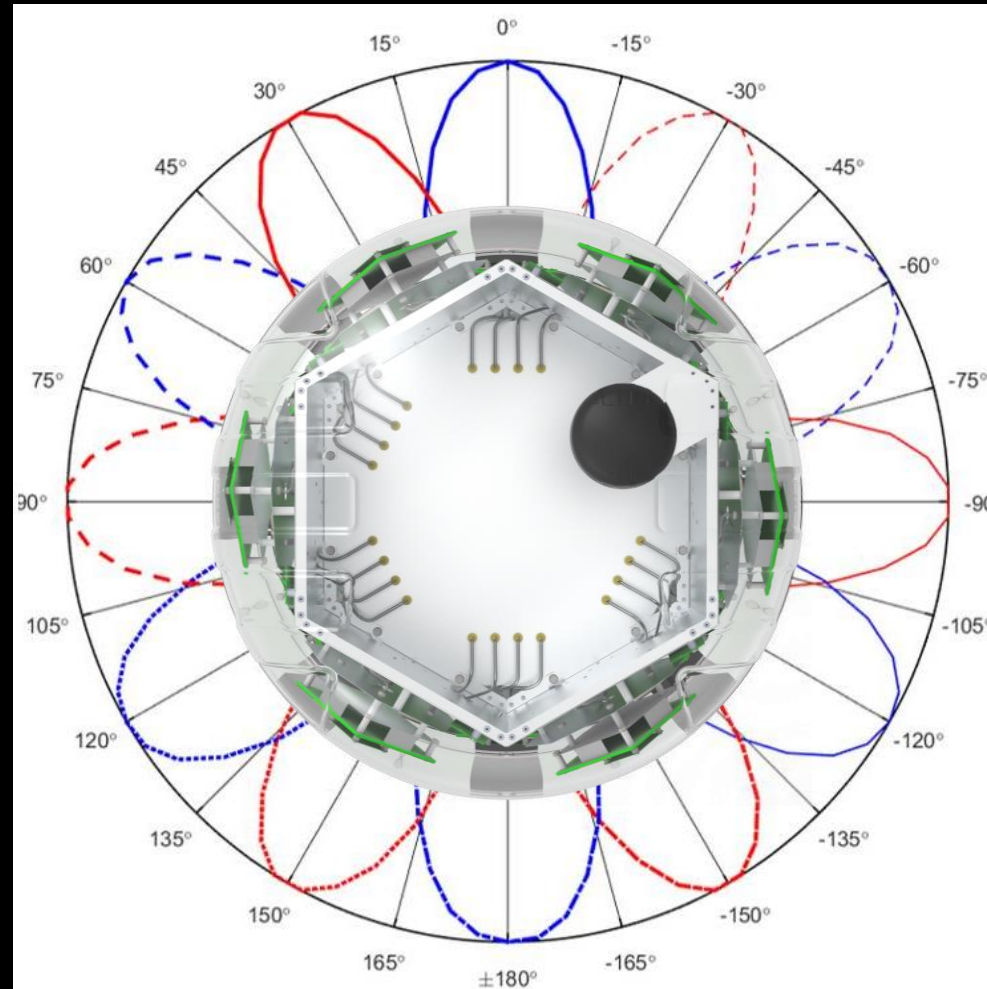


# ELECTRICAL SPECIFICATIONS

# POWERFUL ON THE INSIDE

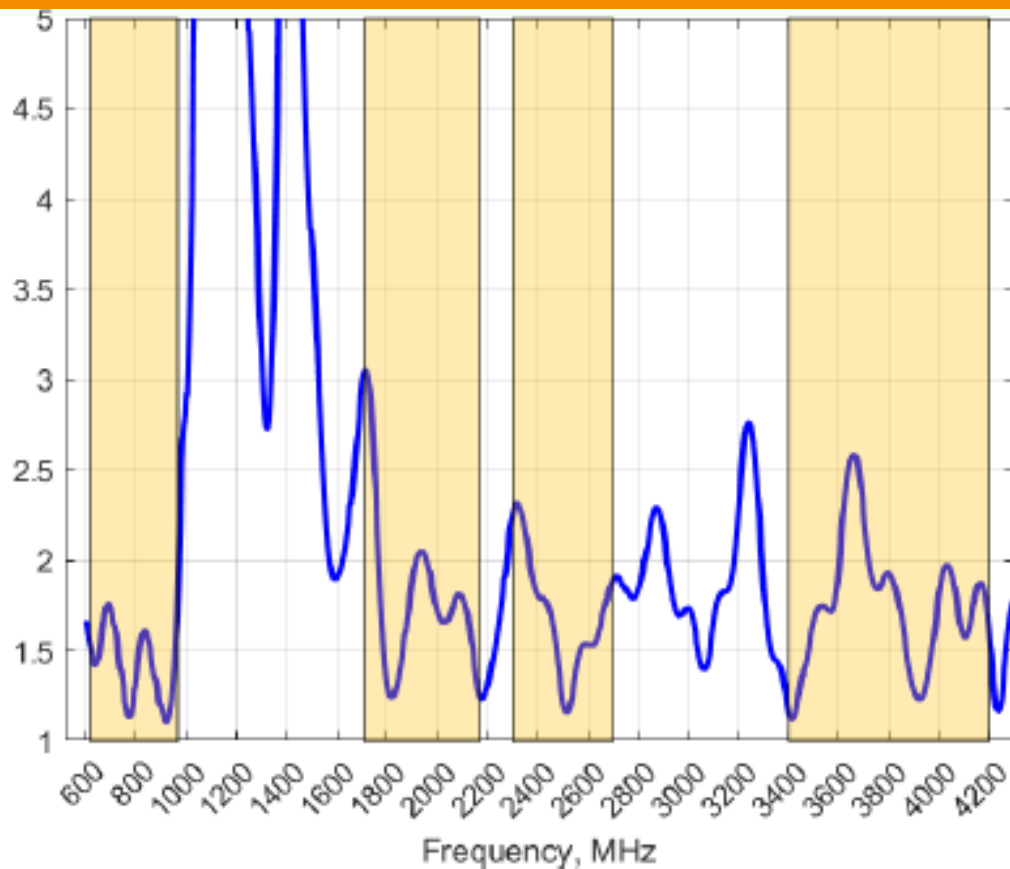


# MULTI-DIRECTIONAL, MULTI-POLARIZATION

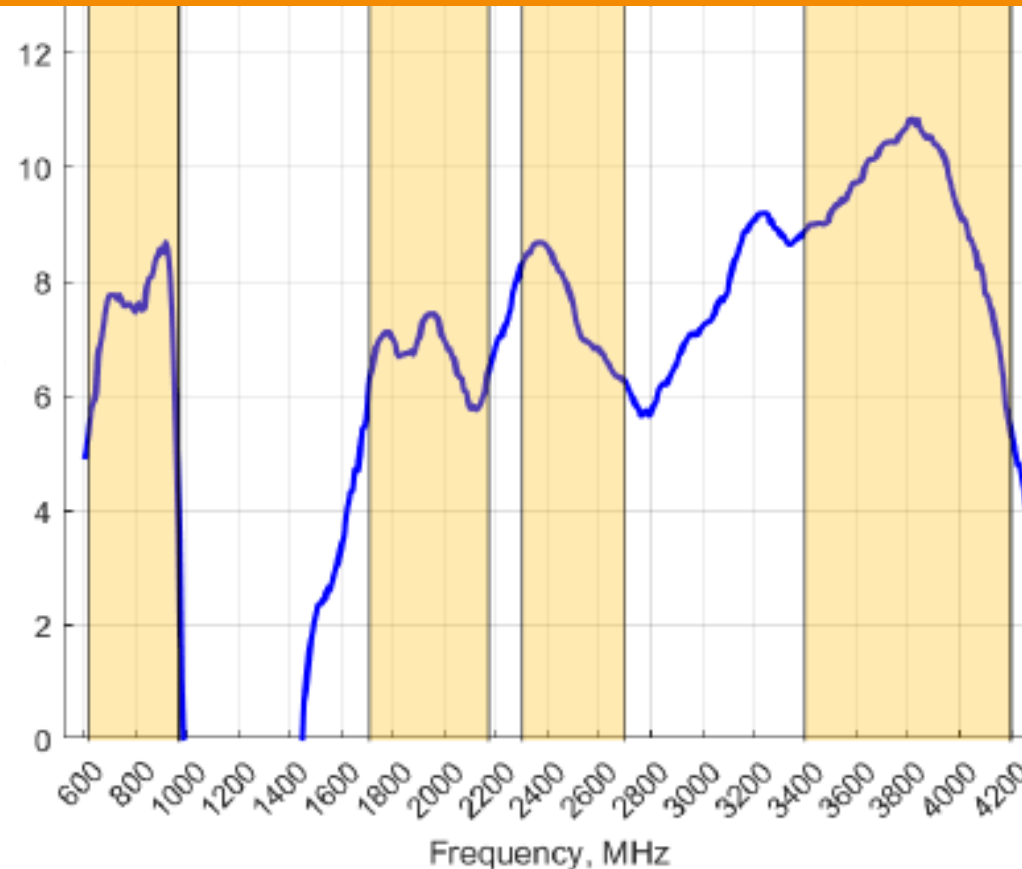


# GAIN AND VSWR

## VSWR



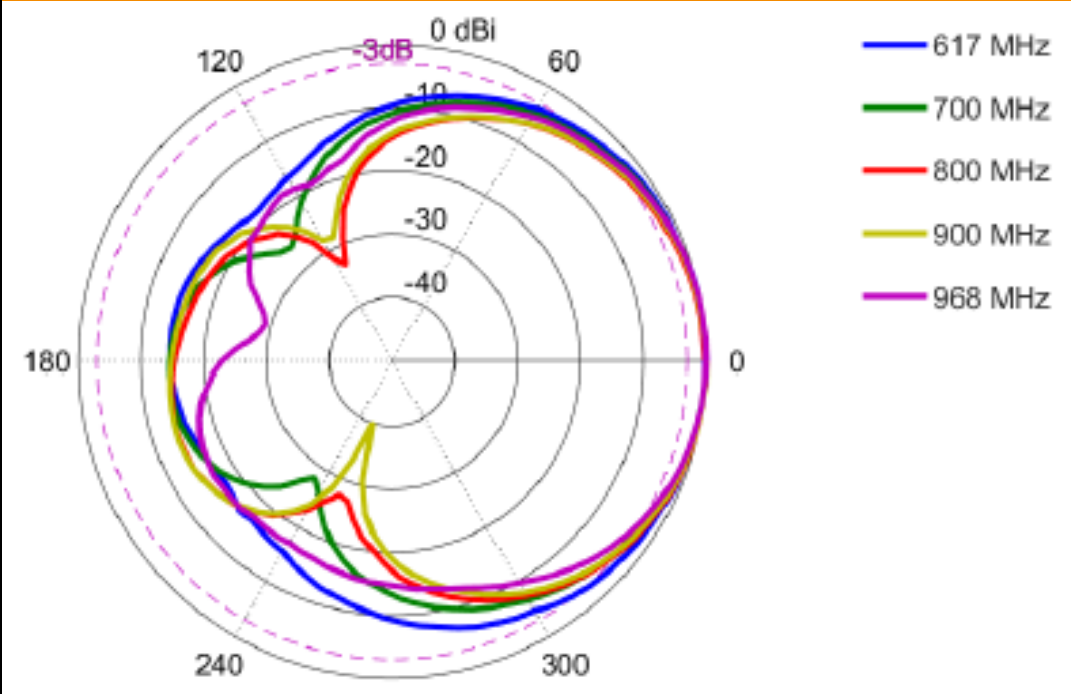
## GAIN dBi (EXCLUDING 75CM OF CABLE LOSS)



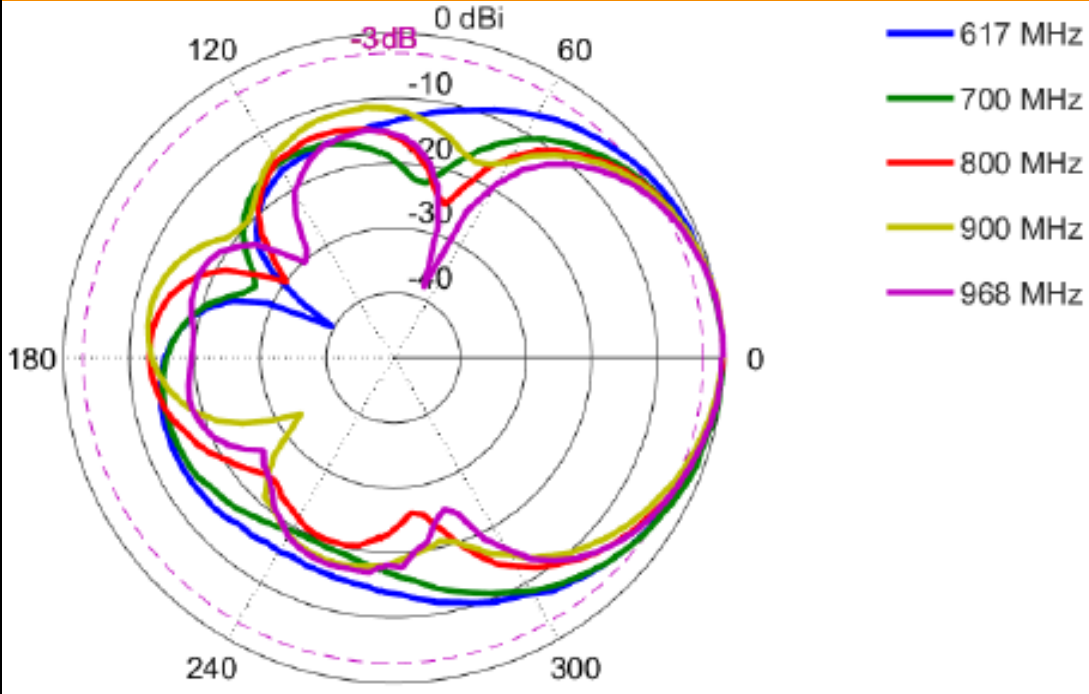
# RADIATION PATTERN



Azimuth (Top view): 617 – 970MHz



Elevation (Side view): 690 – 960MHz





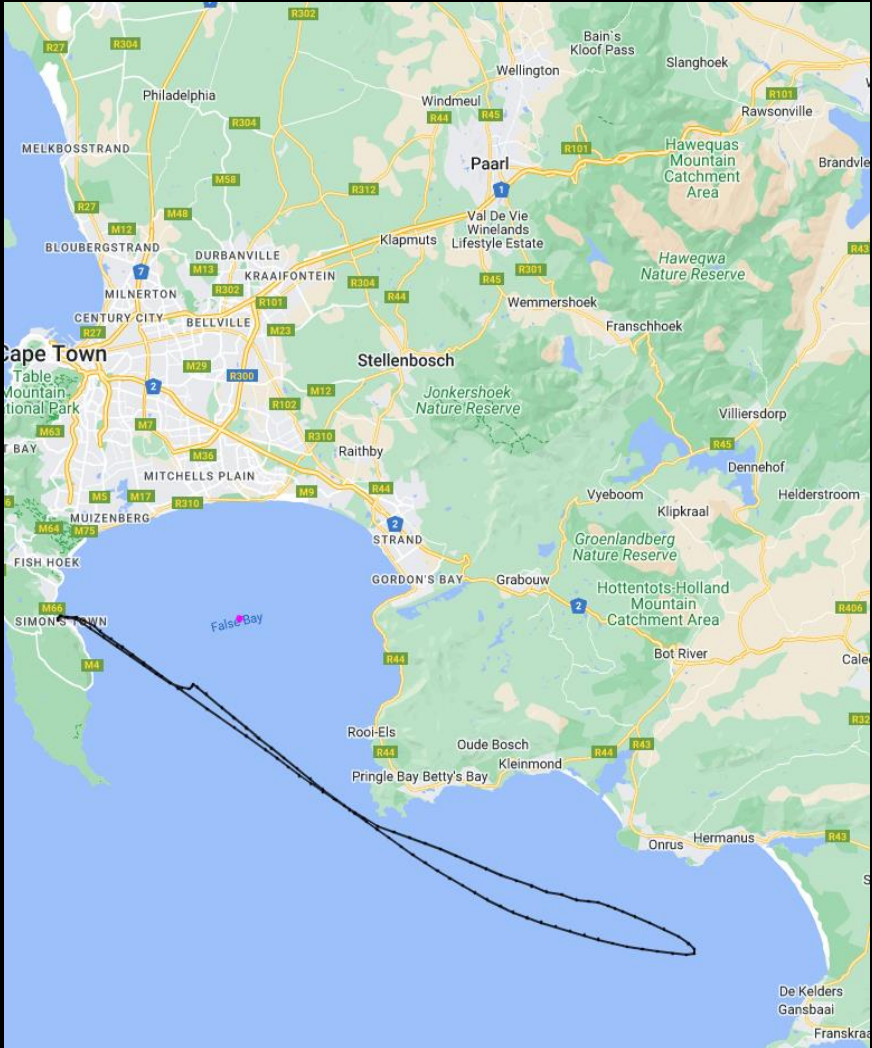
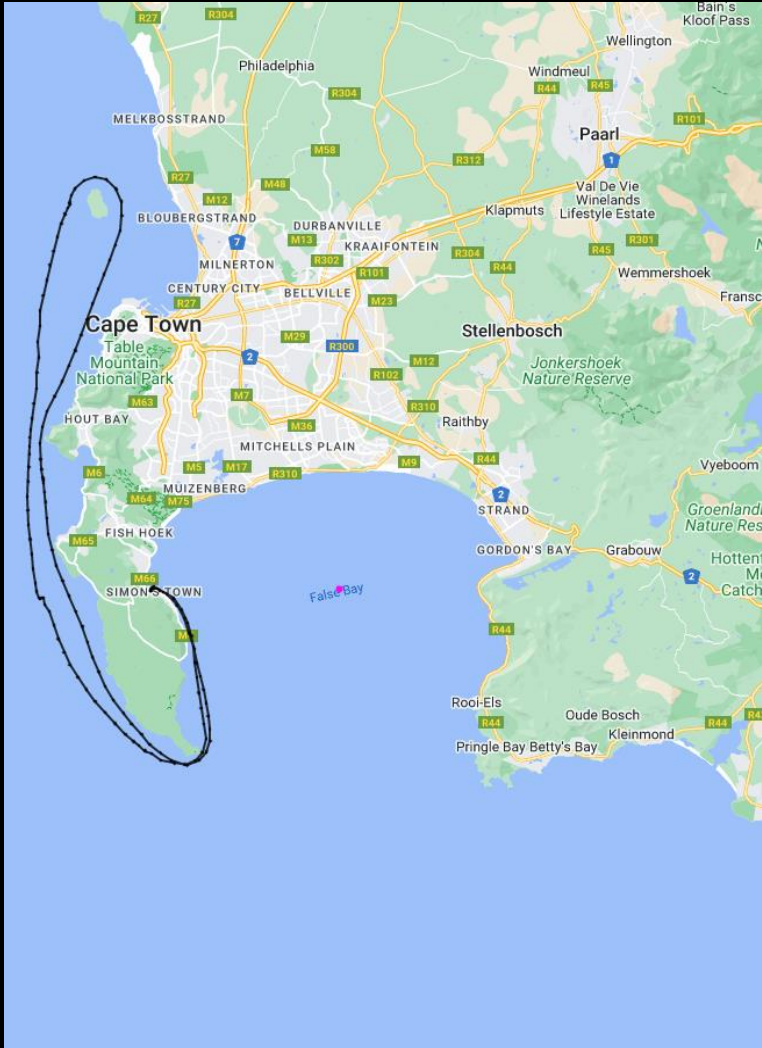
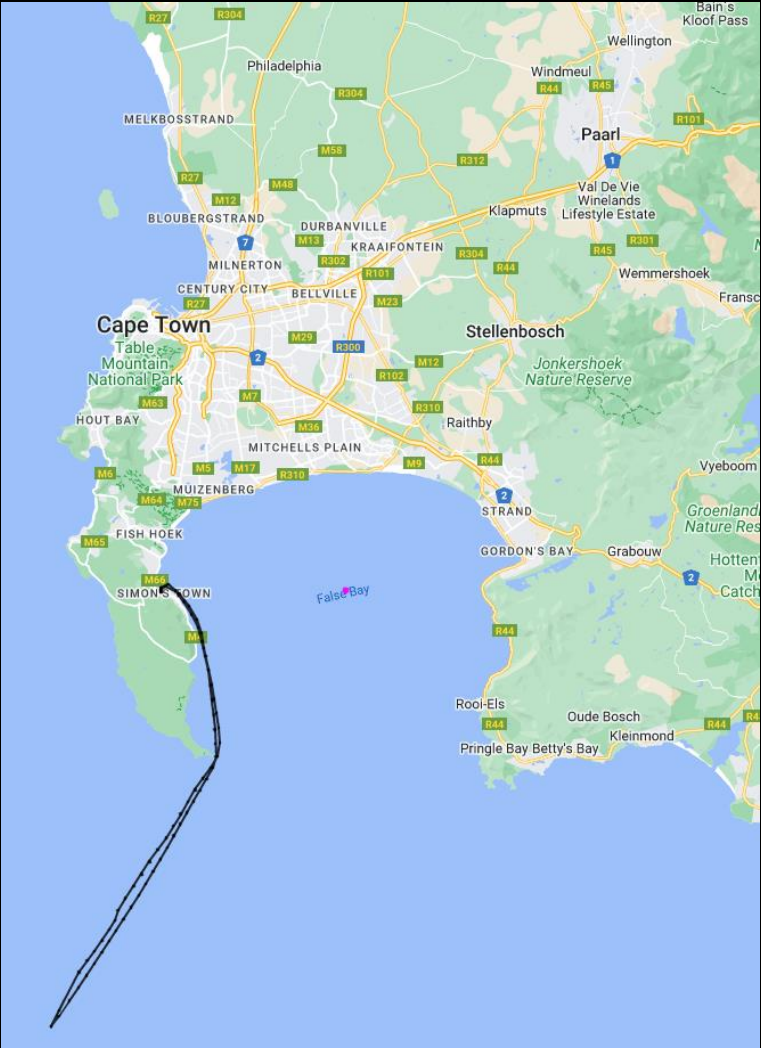
# CAPE TOWN FEBRUARY 2022



# CAPE TOWN - FEBRUARY 2022

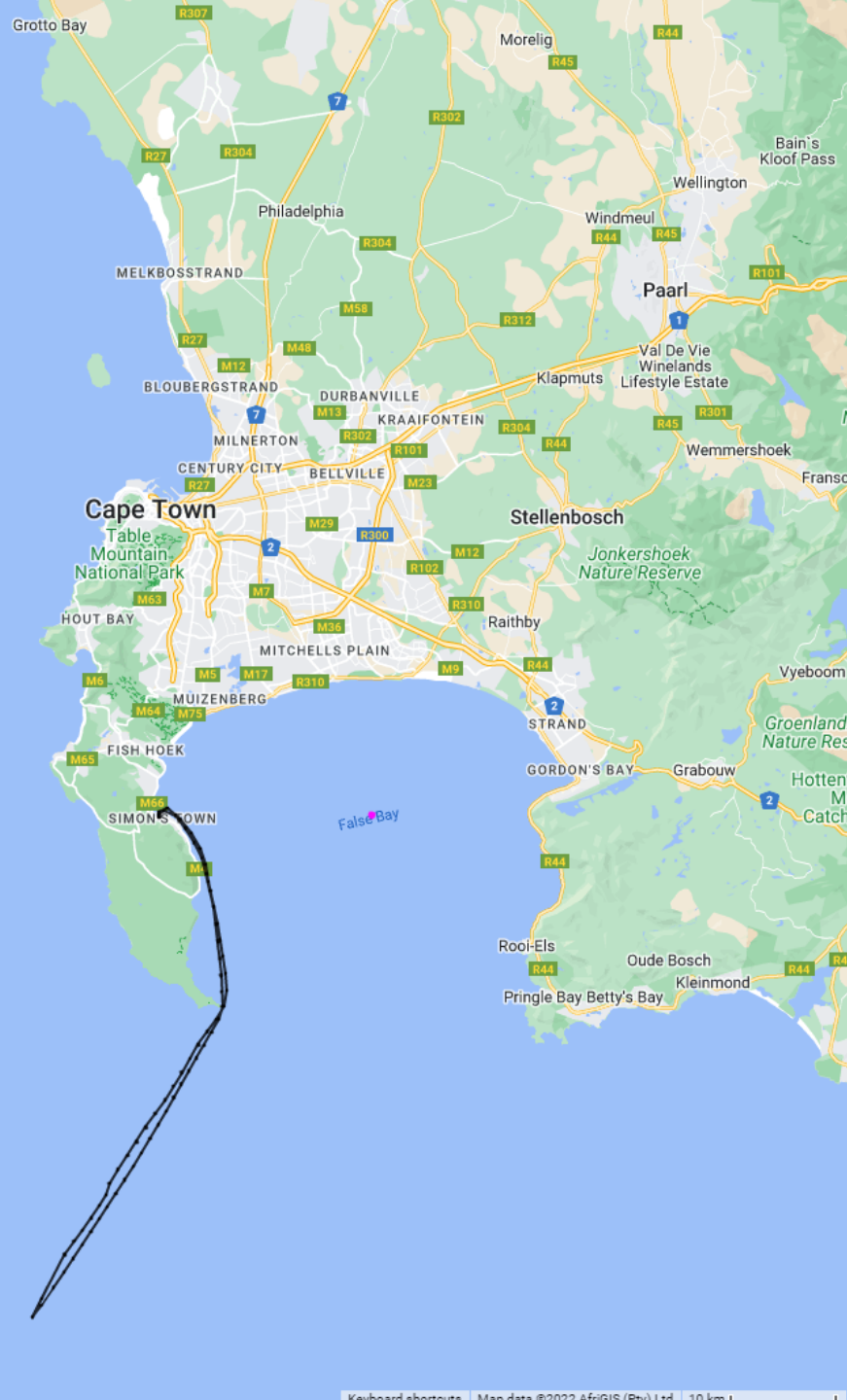


POYNTING





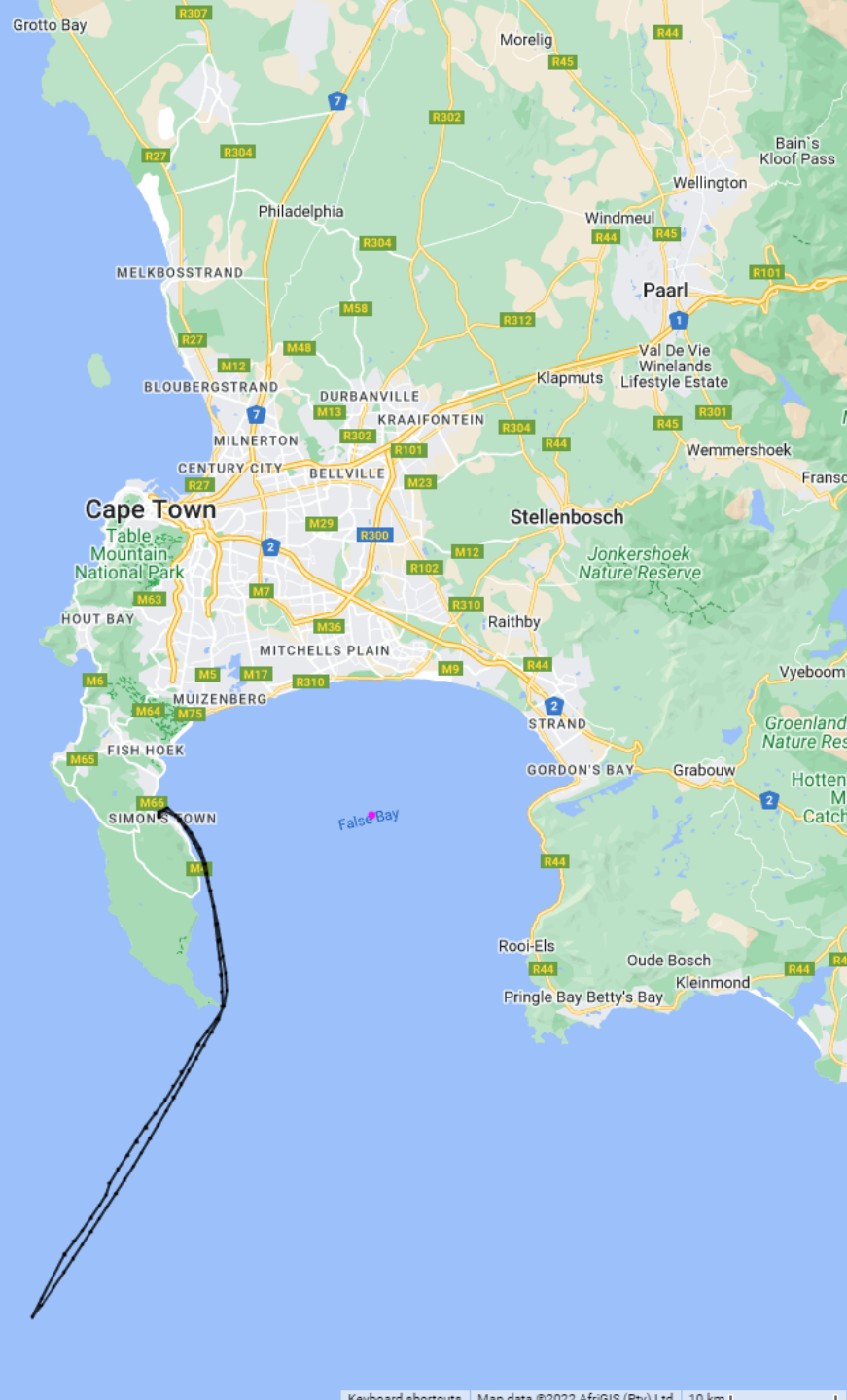
**Sink or Swim**



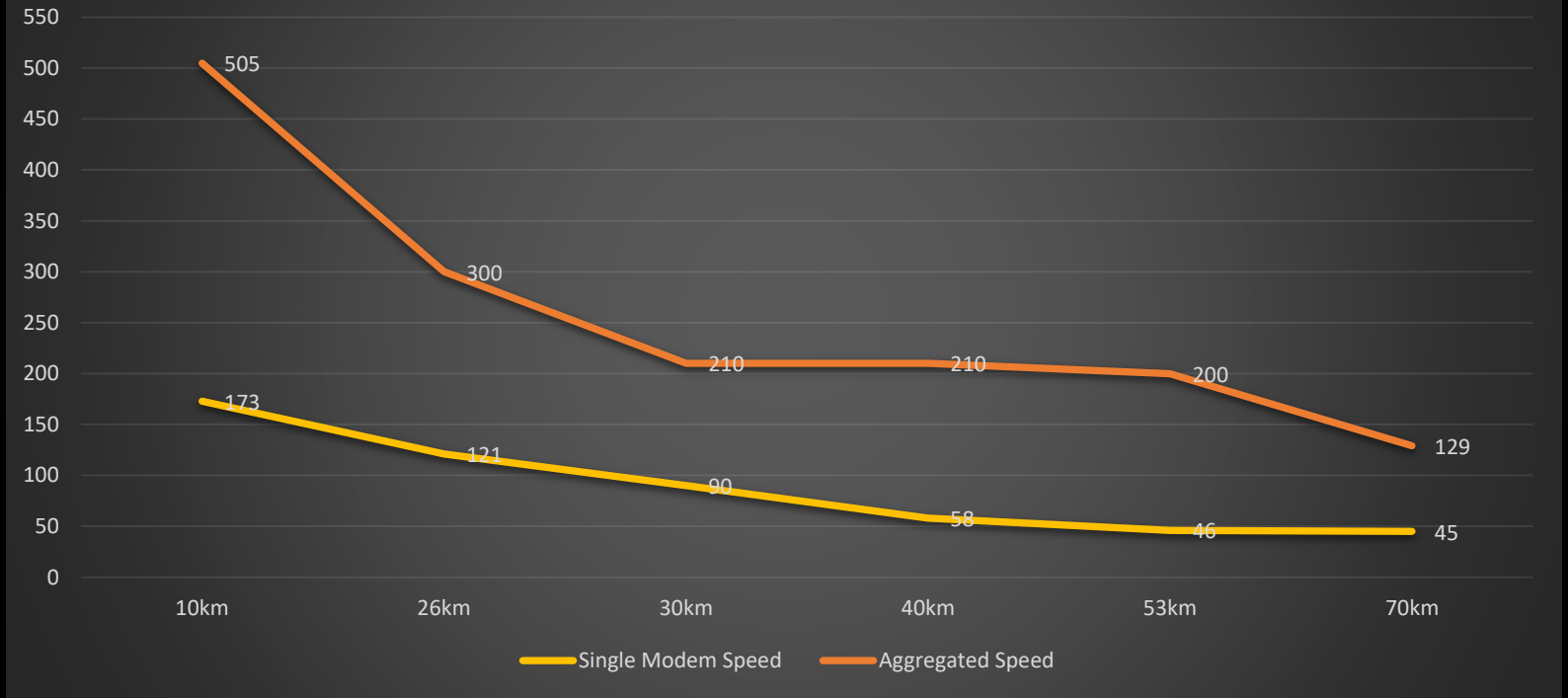
- Max download vs distance 173Mbit @ 10km
- Max download vs distance 121Mbit @ 26km
- Max download vs distance 92Mbit @ 28km
- Max download vs distance 88Mbit @ 33km
- Max download vs distance 58Mbit @ 50km
- Max download vs distance 46Mbit @ 53km
- Max download vs distance 45Mbit @ 70km



POYNTING



### Peak Speed over distance vs aggregation

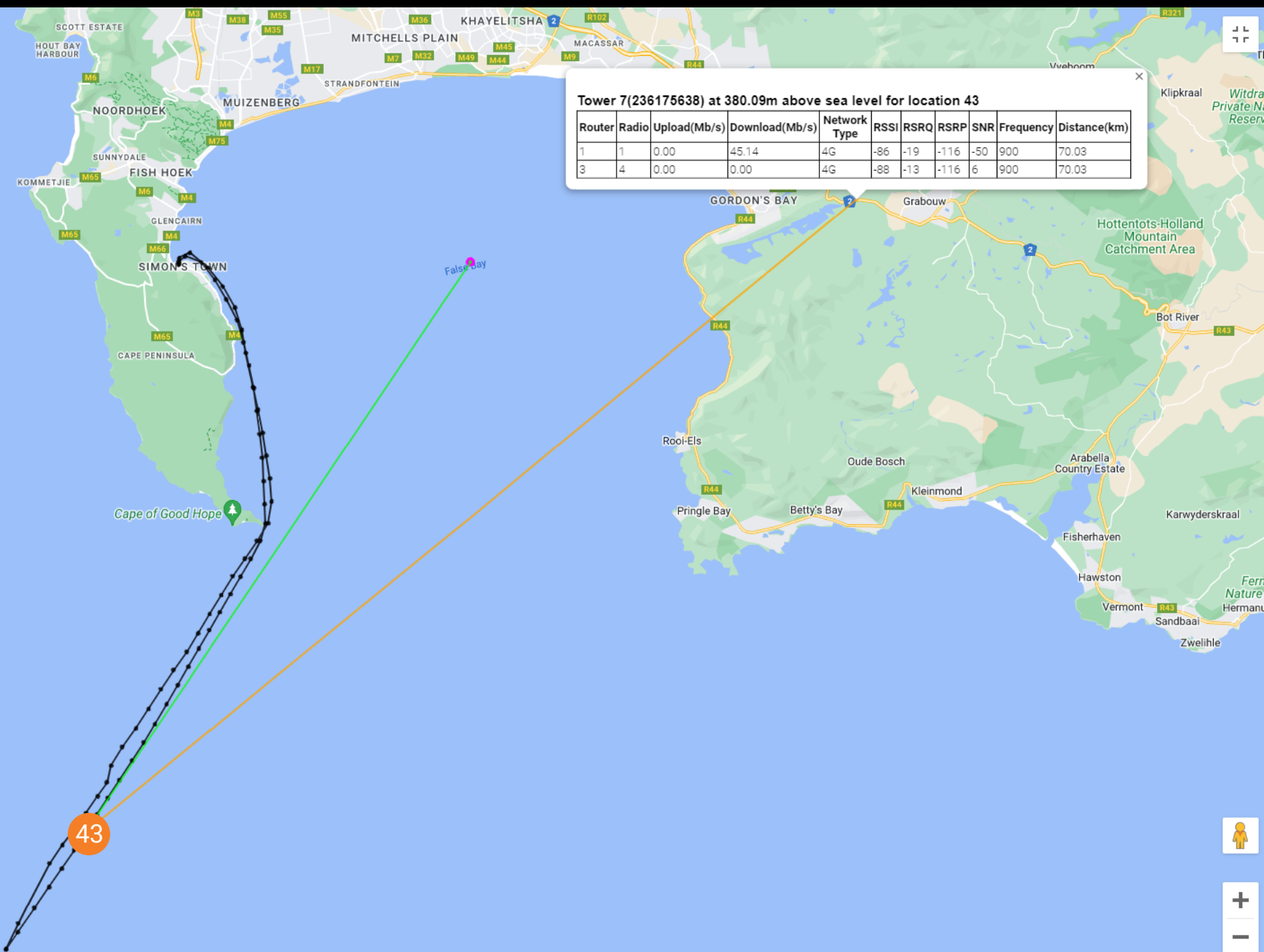


Map

Satellite

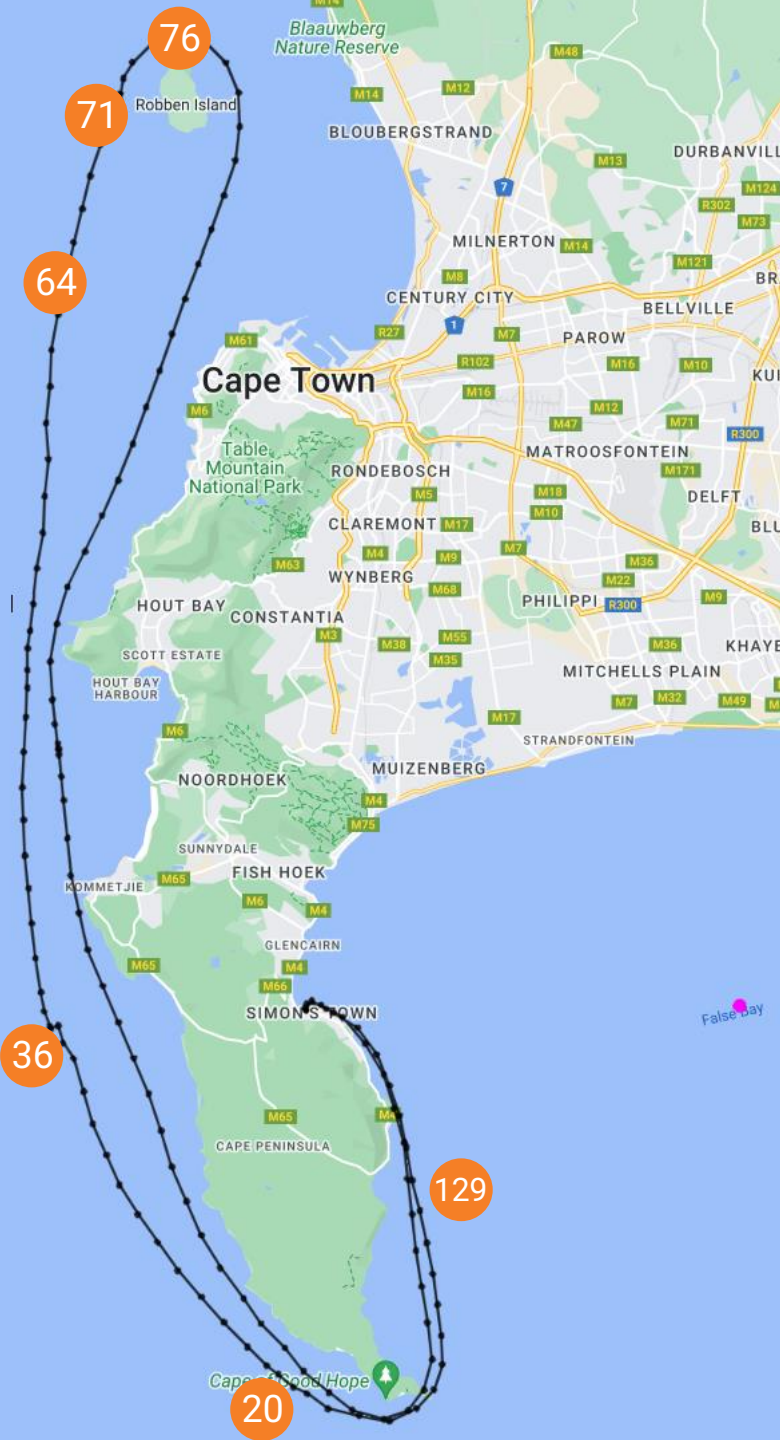
Tower 7(236175638) at 380.09m above sea level for location 43

Router	Radio	Upload(Mb/s)	Download(Mb/s)	Network Type	RSSI	RSRQ	RSRP	SNR	Frequency	Distance(km)
1	1	0.00	45.14	4G	-86	-19	-116	-50	900	70.03
3	4	0.00	0.00	4G	-88	-13	-116	6	900	70.03

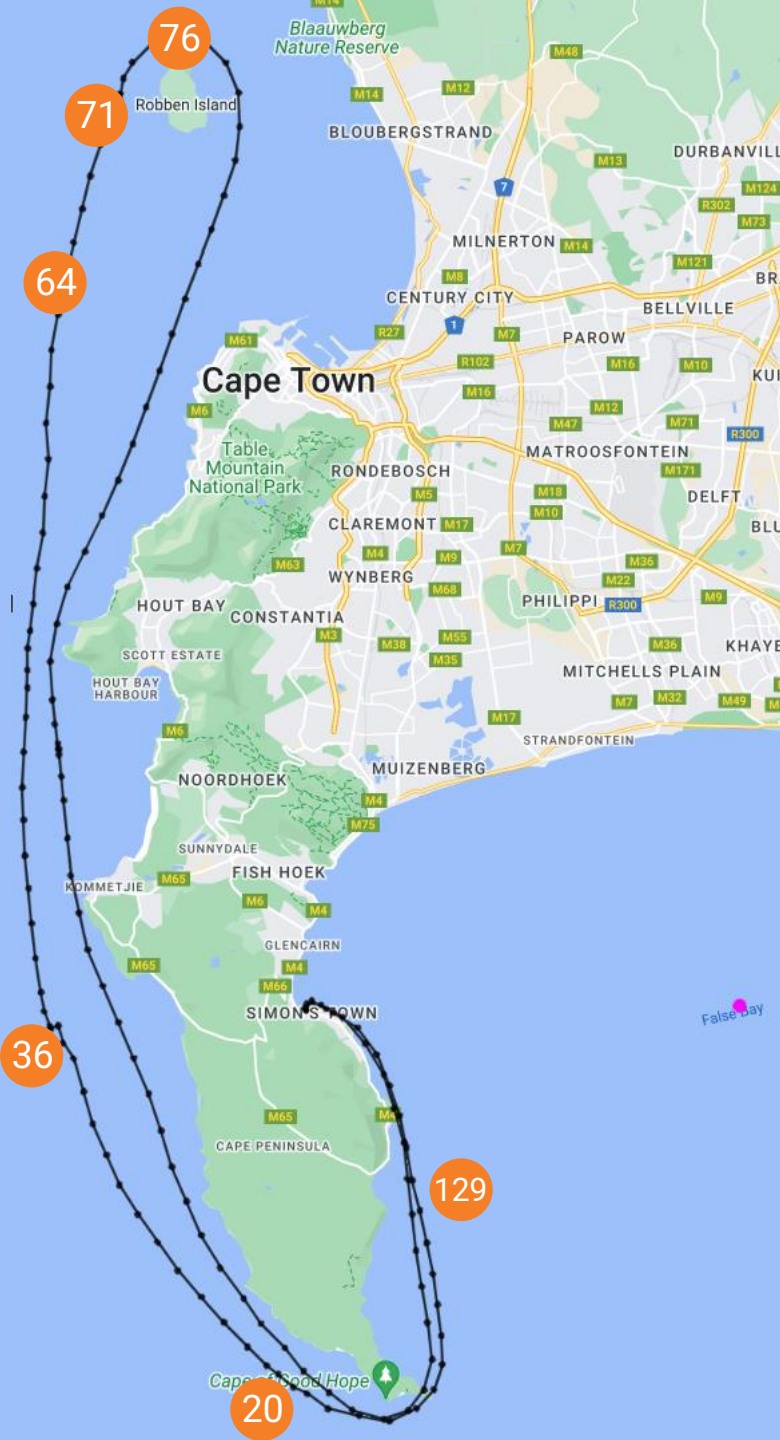


POYNTING



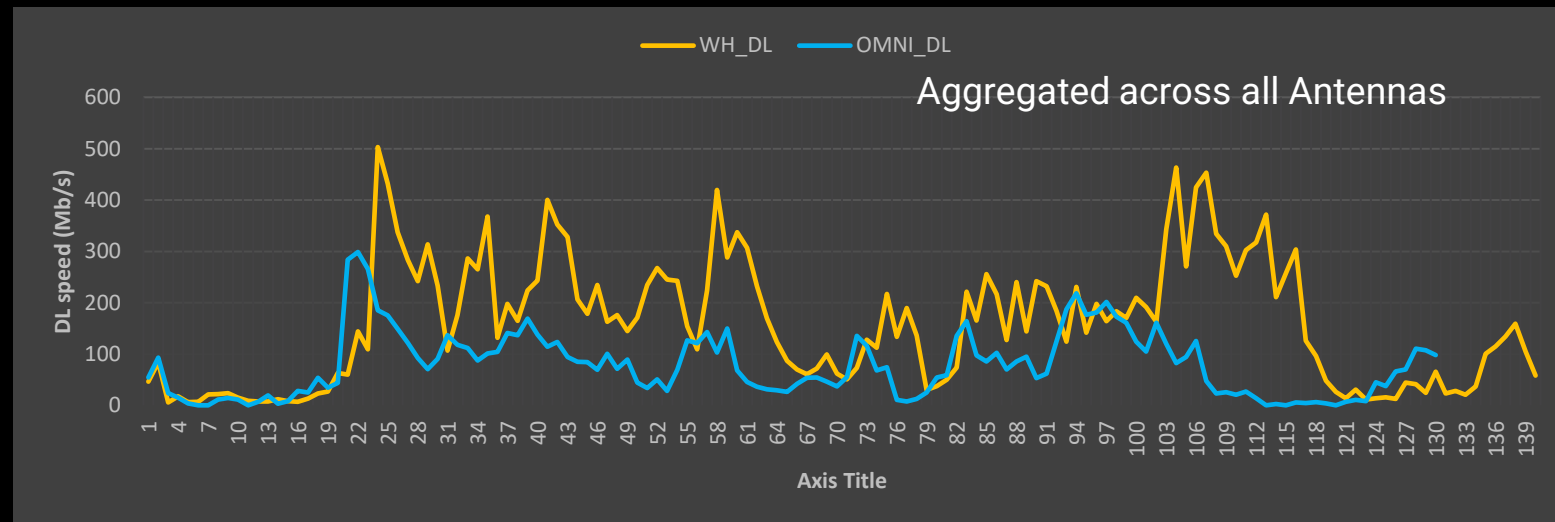


Point #	Distance		Frequency		RSRQ		RSRP		RSSI		Throughput Up+Down	
	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493
20	59.4	51.29	800	NA	-11	NA	-111	NA	-82	-82	28.05	28.57
36	5.69	5.49	2100	2100	-10	-14	-96	-104	-70	-76	111.62	66.49
64	9.38	9.68	1800	1800	-20	-18	-86	-93	-50	-59	35.78	48.33
71	11.55	11.55	1800	1800	-16	-16	-87	-93	-55	-61	48.61	42.03
76	7.06	7.5	1800	2600	-12	-14	-87	-100	-55	-67	57.77	36.35
129	42.6	11.98	2100	NA	-11	NA	-100	NA	-67	-82	46.29	23.34

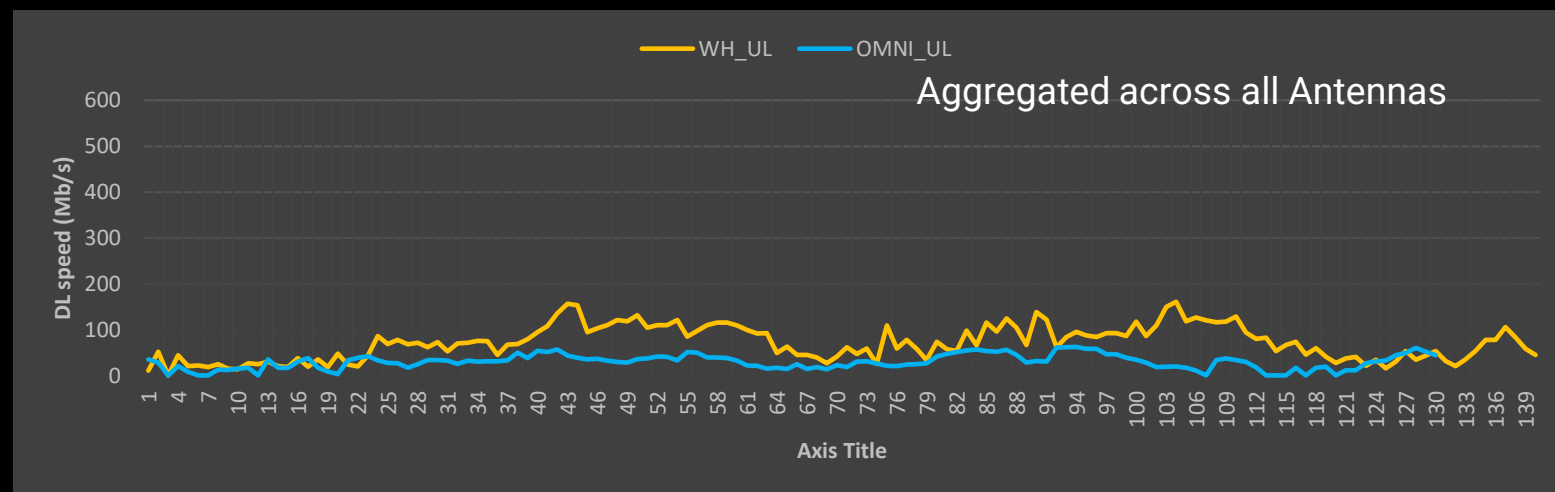


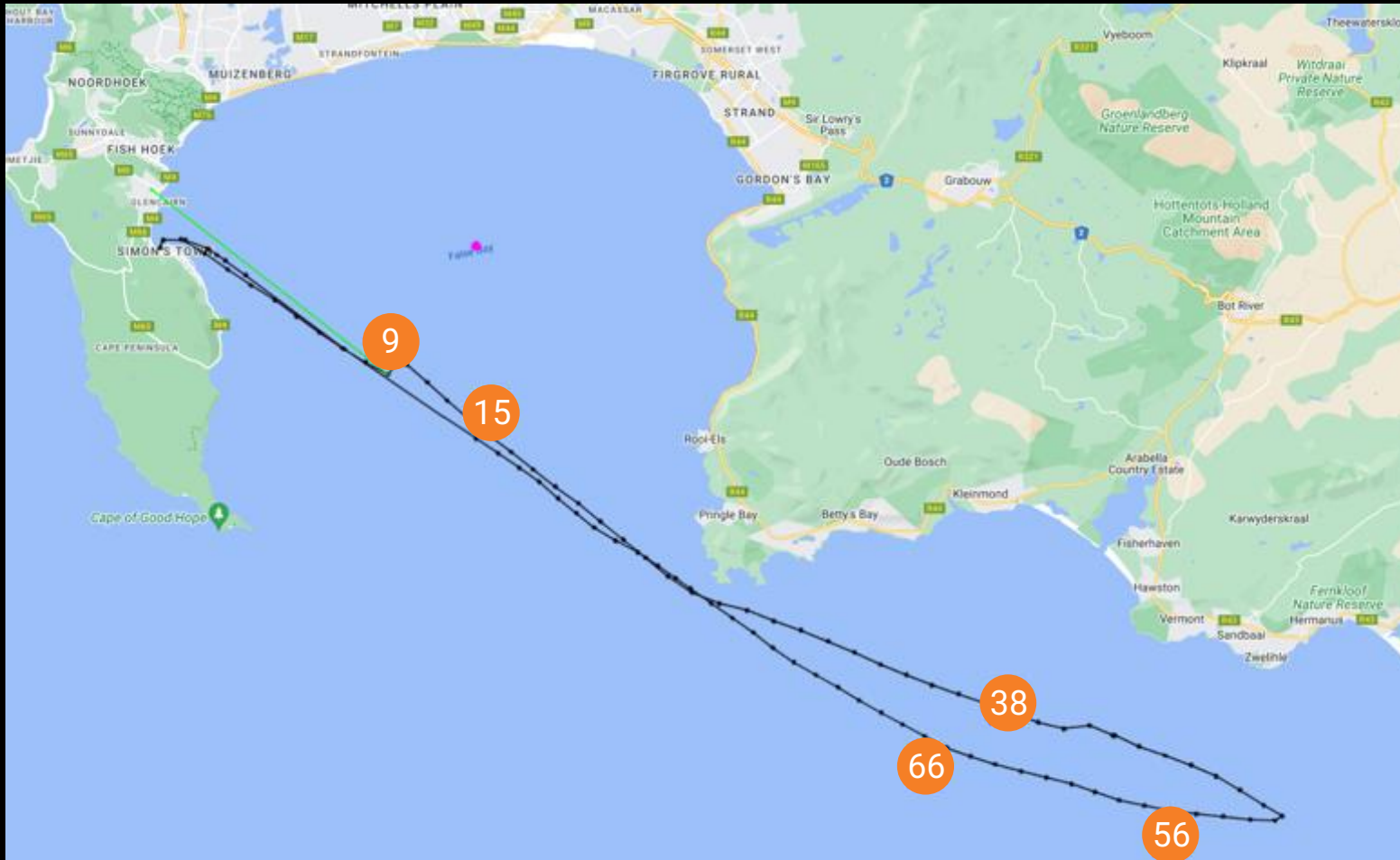
POYNTING

## Downlink: WaveHunter™ vs. OMNI's



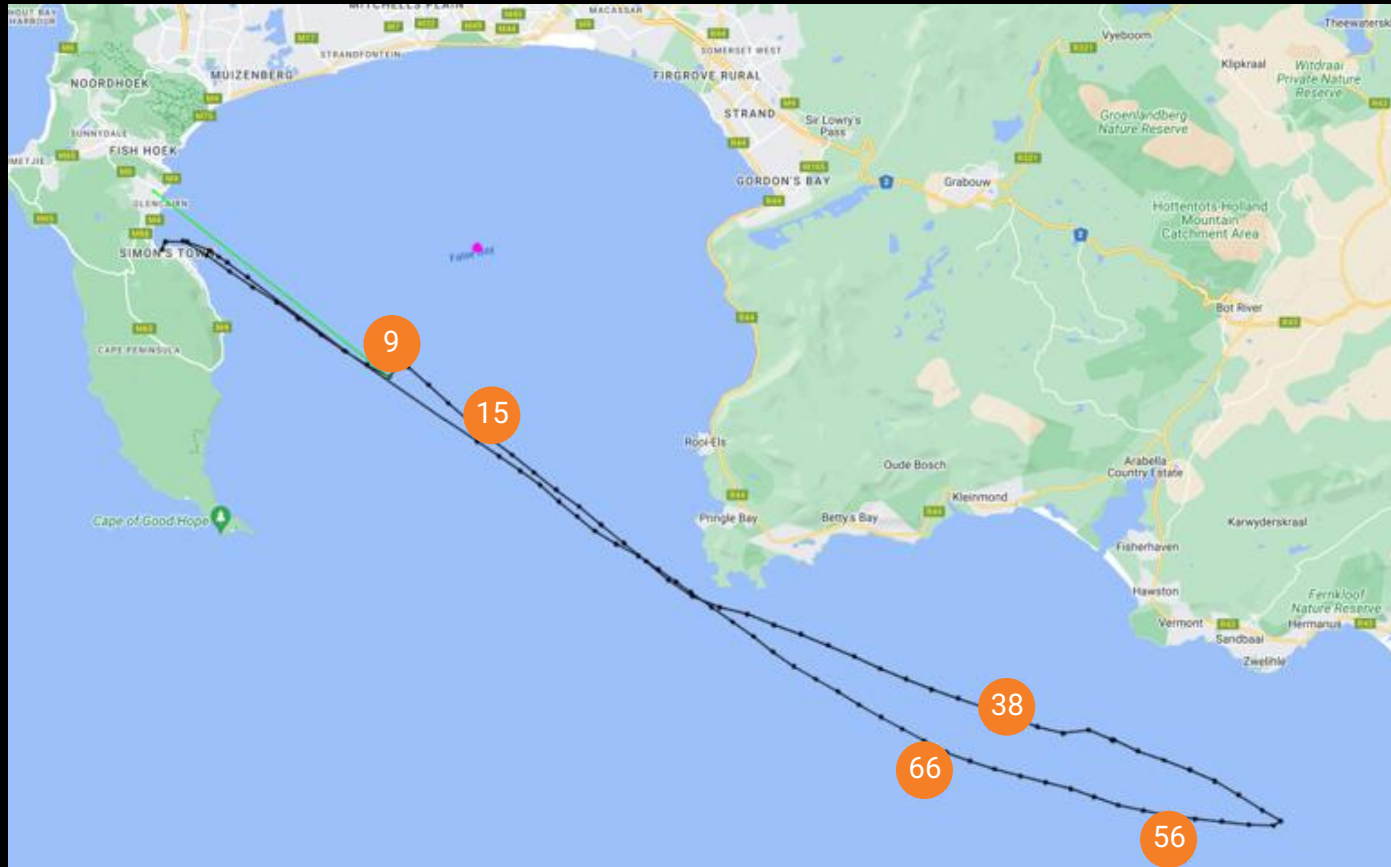
## Uplink: WaveHunter™ vs. OMNI's





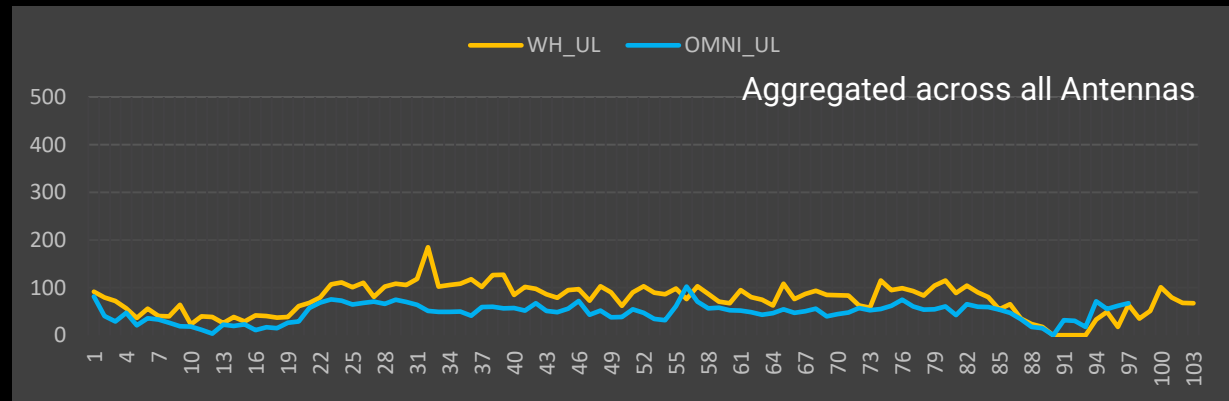
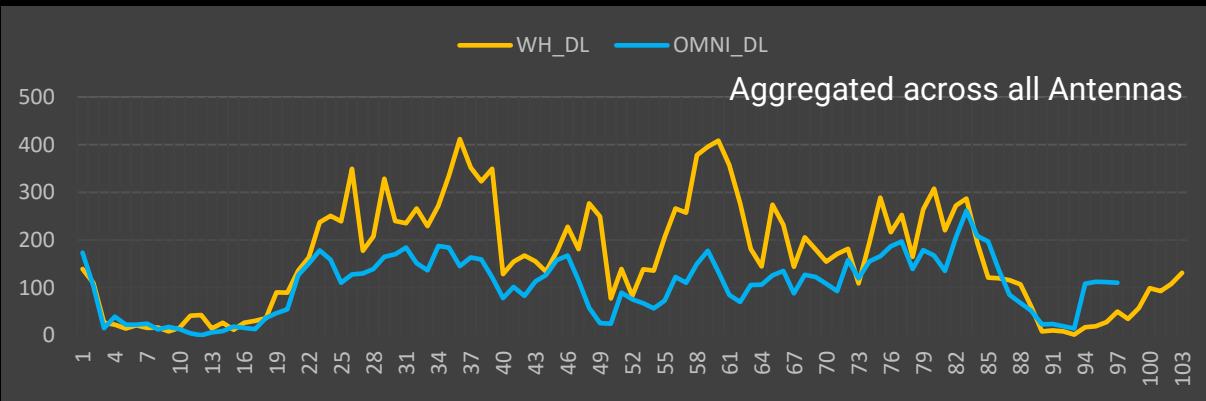
Point #	Distance		Frequency		RSRQ		RSRP		RSSI		Throughput Up+Down	
	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493	WH	OMNI-493
9	41.17	19.53	800	2100	-10	-10	-94	-97	-67	-69	20.05	11.18
15	38.95	23.63	900	2100	-17	-16	-97	-105	-66	-73	15.9	13.17
38	12.22	13.74	2100	1800	-12	-18	-88	-93	-63	-58	130.15	57.96
56	11.53	11.88	2500	1800	-11	-13	-92	-90	-57	-59	83.26	65.74
66	23.85	13.4	2100	2100	-14	-16	-95	-98	-64	-66	88.9	71.24





### Downlink: WaveHunter™ vs. OMNI's

### Uplink: WaveHunter™ vs. OMNI's





POYNTING

# WHO WILL MAKE THE MOST OUT OF IT?



Survey



Near Shore Merchant



Passenger



Cruise ships



Yachting



Offshore and energy



POYNTING

# WAVEHUNTER™



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FOLLOW US:

