

Improvement of Navigational Aids Check by Using Drone

2024. 7

Korea Airport Corporation
In Republic of Korea



1. Report of Drone Inspection(GP)

DIVA Report

- Measurement Data using Drone -

Date : 12/02/2022 01:40:04
Facility : KIMPO 14R GP
Frequency : 330.50 MHz

[Results]

		Min.	Avg.	Max.
MODULATION	79.3	SDM	79.2 / 79.3 / 79.5	
WIDTH	0.72	90Hz MOD.	36.6 / 39.0 / 39.8	
STRUCTURE BELOW PATH	2.21	150Hz MOD.	39.6 / 40.3 / 42.8	
PATH STRUCTURE-Z 3	7.1 / 0.1	POWER (Approach)	-49.6 / -47.5 / -46.3	
SYMMETRY	47.0	POWER (LevelRun)	-69.4 / -49.1 / -43.7	
Freq.CRS (Hz)	330,504,217 (4217)	Freq.90Hz	90.0	
Freq.CLR (Hz)	330,496,226 (-3773)	Freq.150Hz	150.0	

[Flight Information]

TCH	Range (Aiming to THR)		Aiming Point (Latitude)	Aiming Point (Longitude)		
16.47 (m), 54.04 (ft)	314.3 (m)		37.56639506	126.77793733		
Approach	Min.	Inbound Avg.	Max.	Min.	Outbound Avg.	Max.
Angle (deg.)	3.007,	3.026,	3.068	3.002,	3.014,	3.055
Speed (m/s)	5.96,	6.01,	6.05	5.93,	5.99,	6.04
LevelRun	Min.	Inbound Avg.	Max.	Min.	Outbound Avg.	Max.
Altitude (m)	44.9,	45.0,	45.0	44.9,	45.0,	45.1
Speed (m/s)	5.93,	6.01,	6.92	5.92,	6.00,	6.13

[Comments]

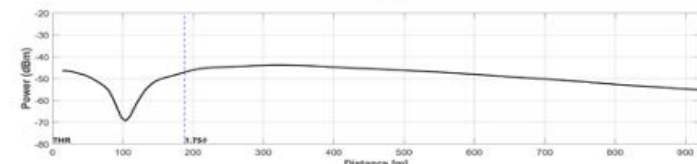
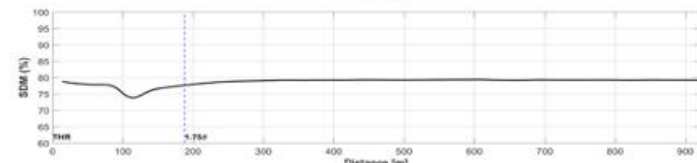
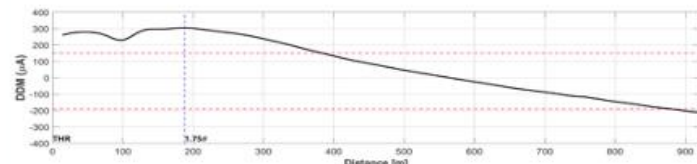
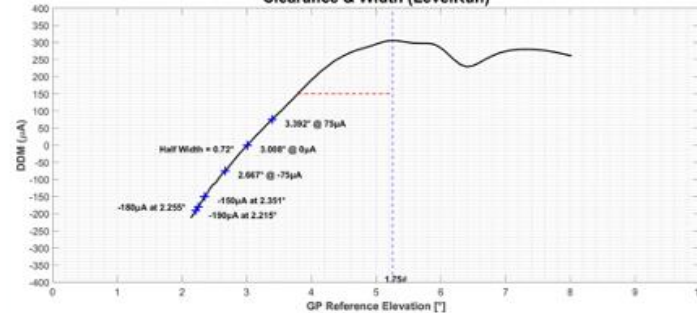
Pilot :

Supervisor :

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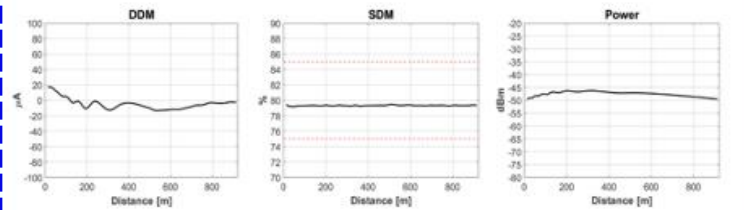
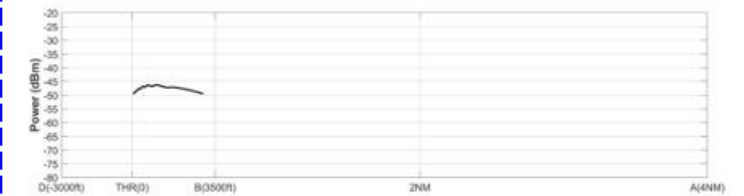
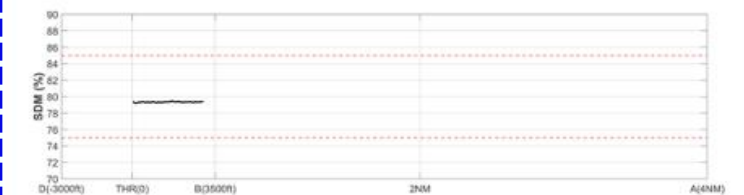
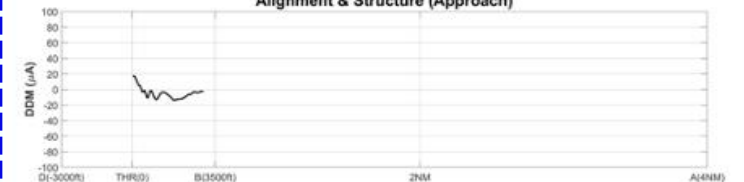
Clearance & Width (LevelRun)



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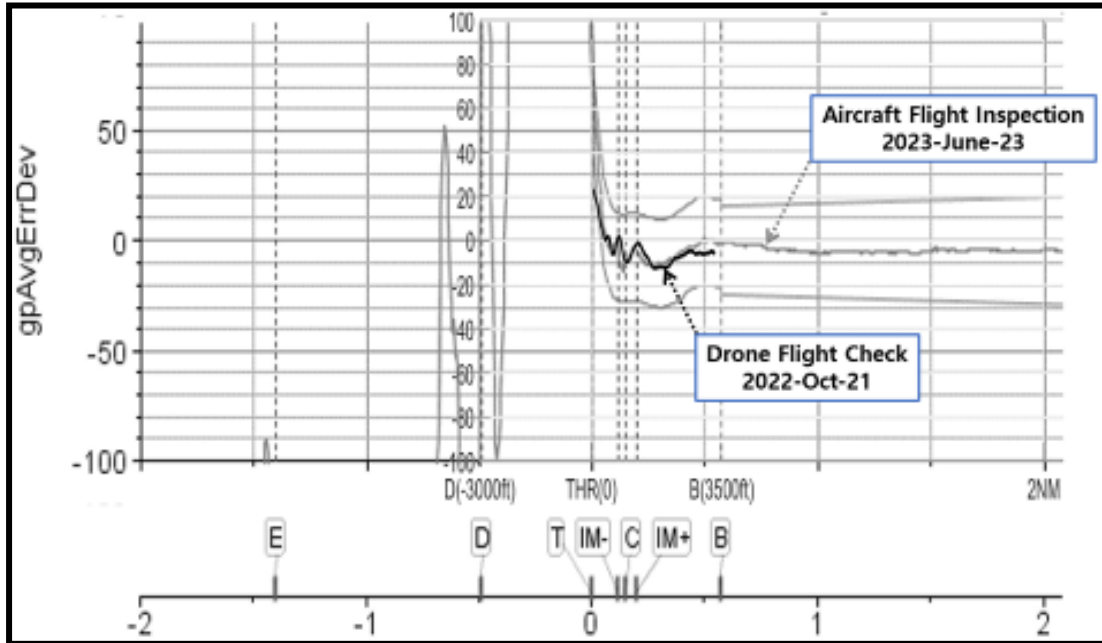
Alignment & Structure (Approach)



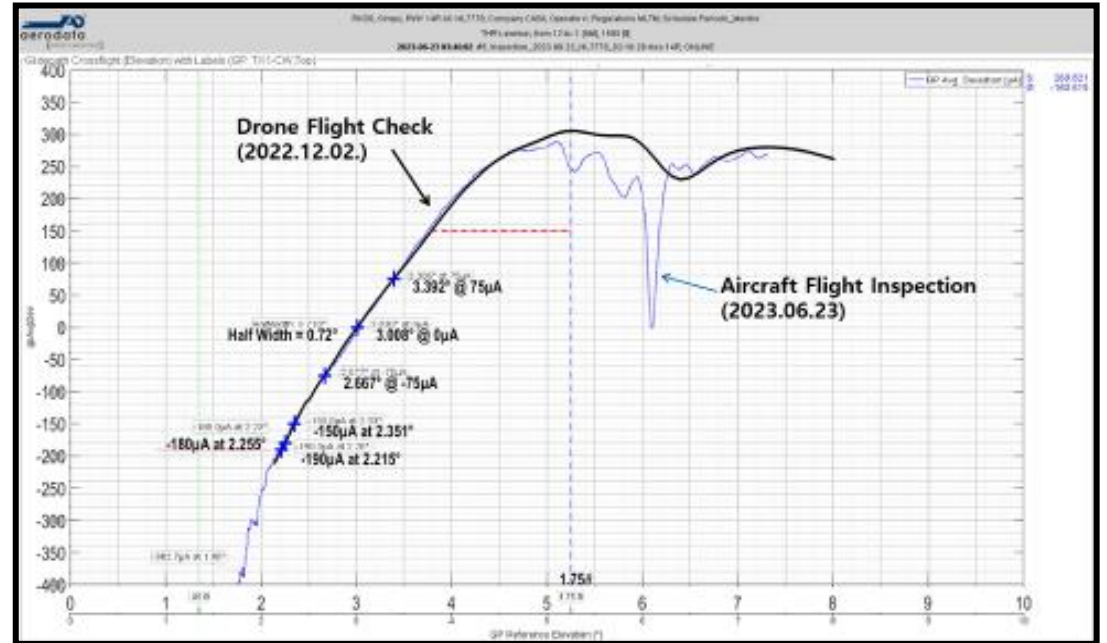
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Comparison of GP Inspection Result



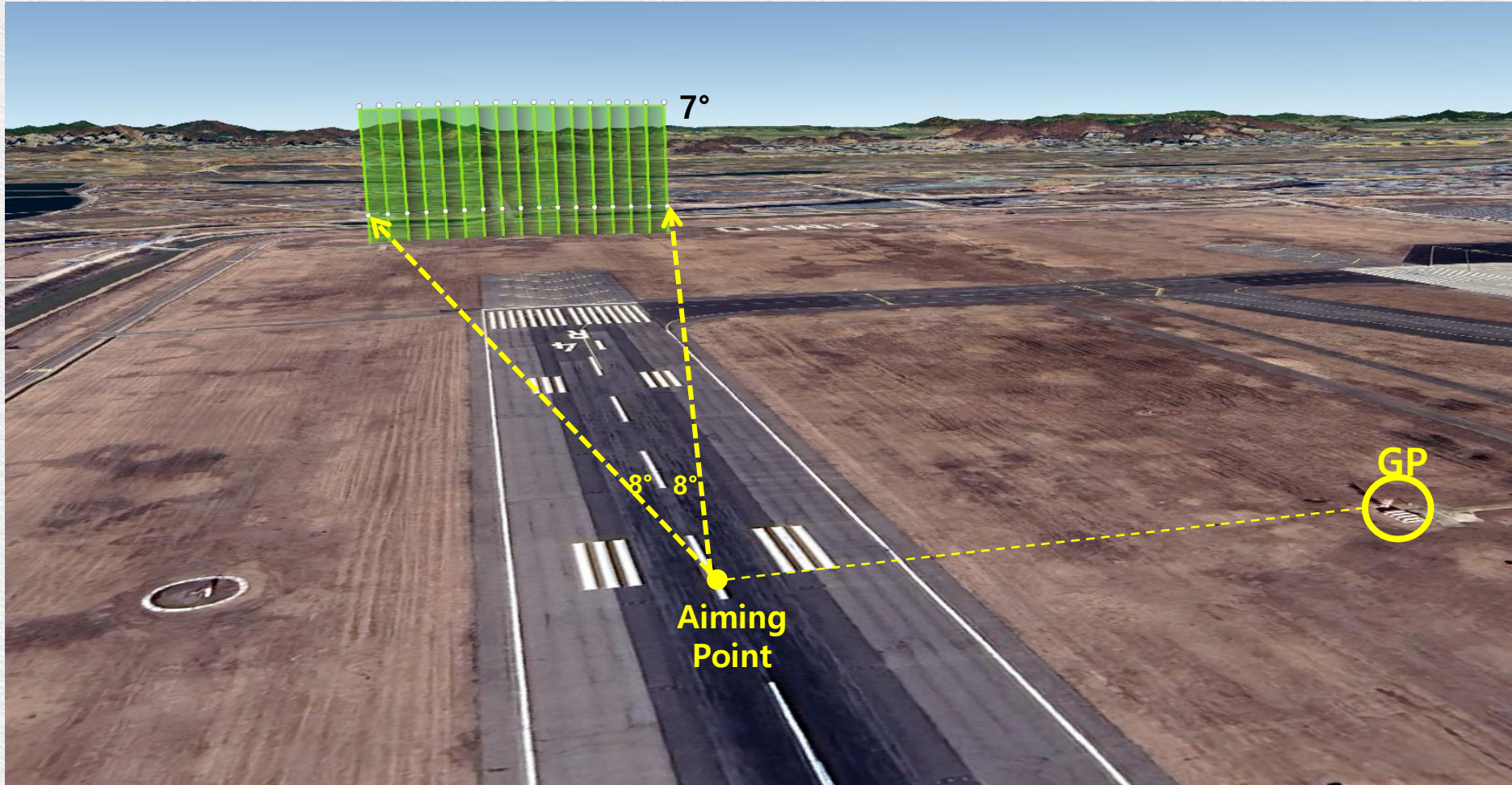
✈ Approach

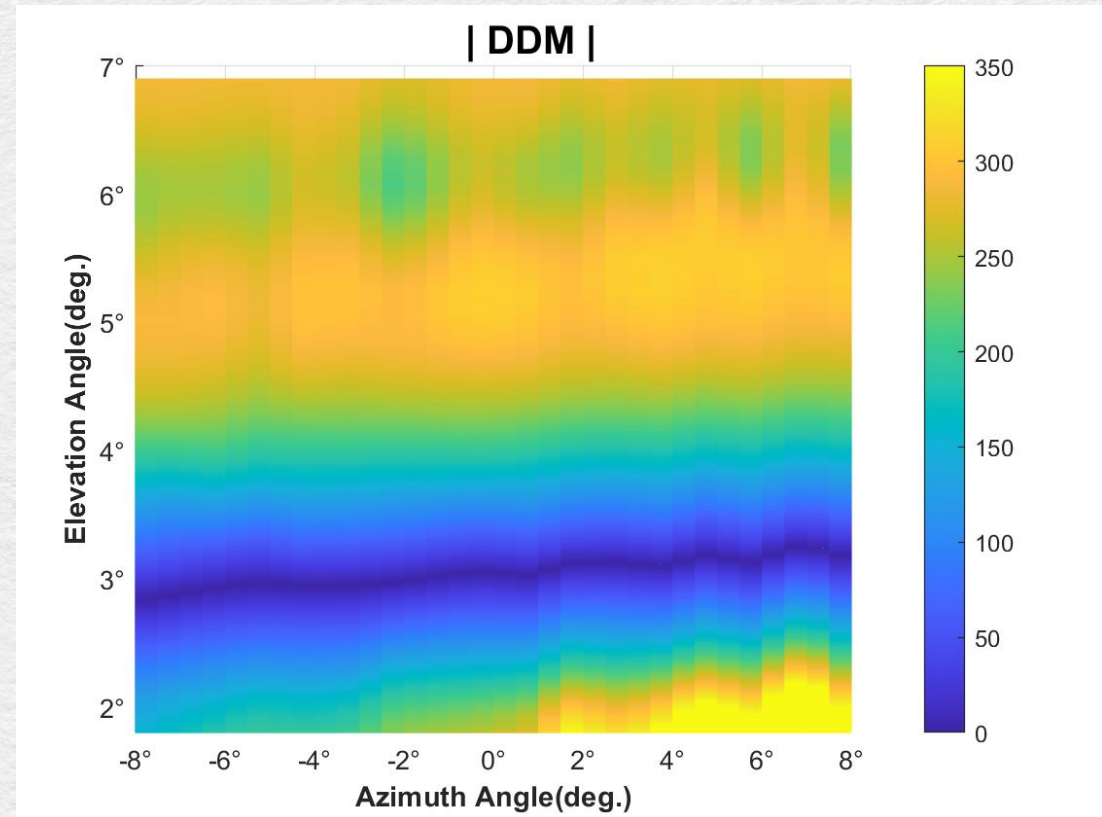
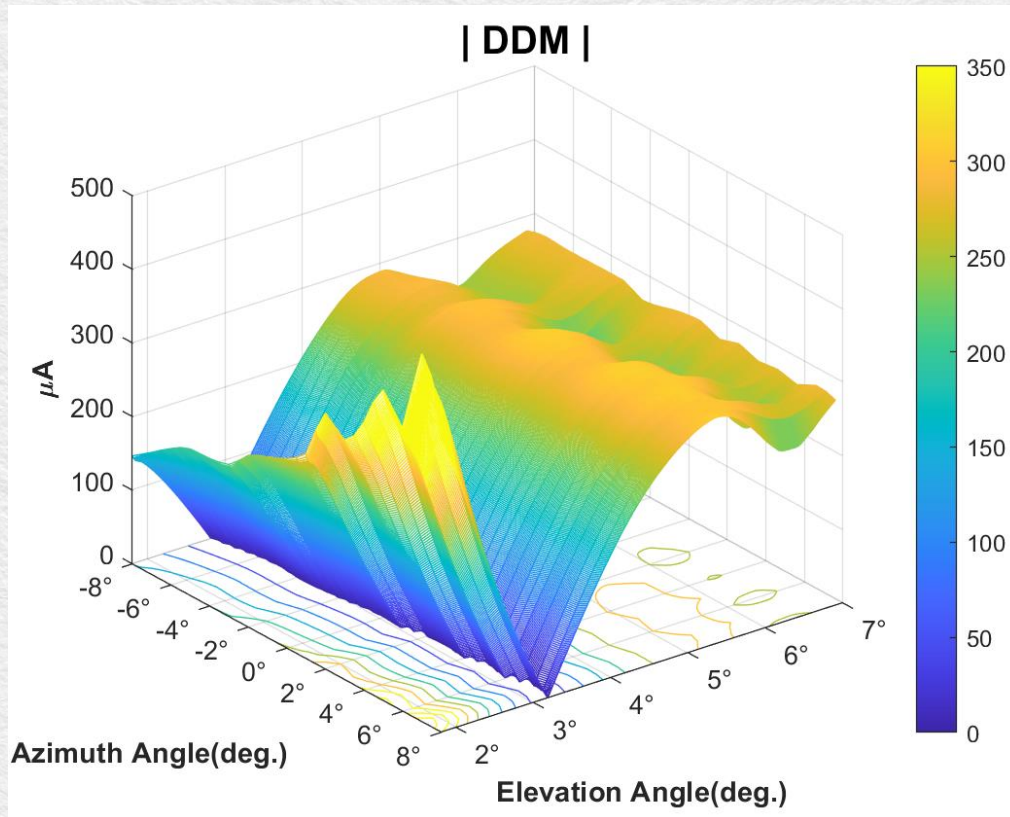


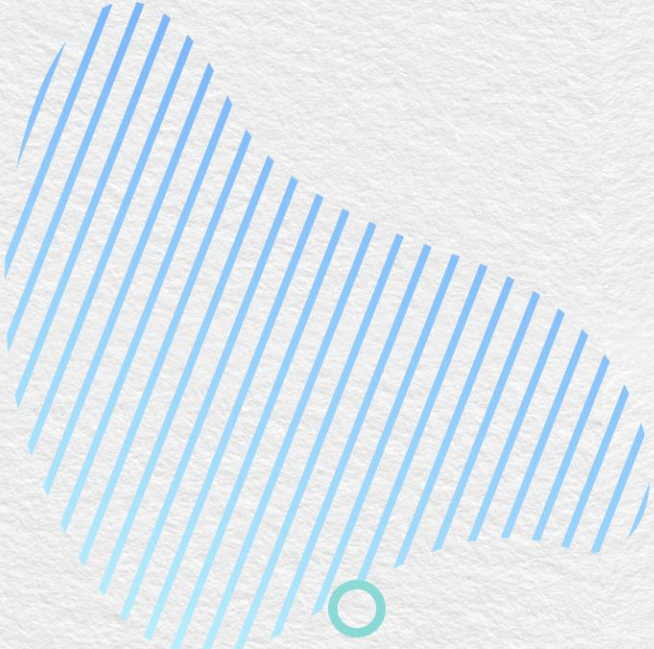
✈ Level run

3.

3D Vertical-Grid Flight of Drone for GP







Thank You

