

# The Summary of Progress of IAWN-related Activities in Korea for the year 2022

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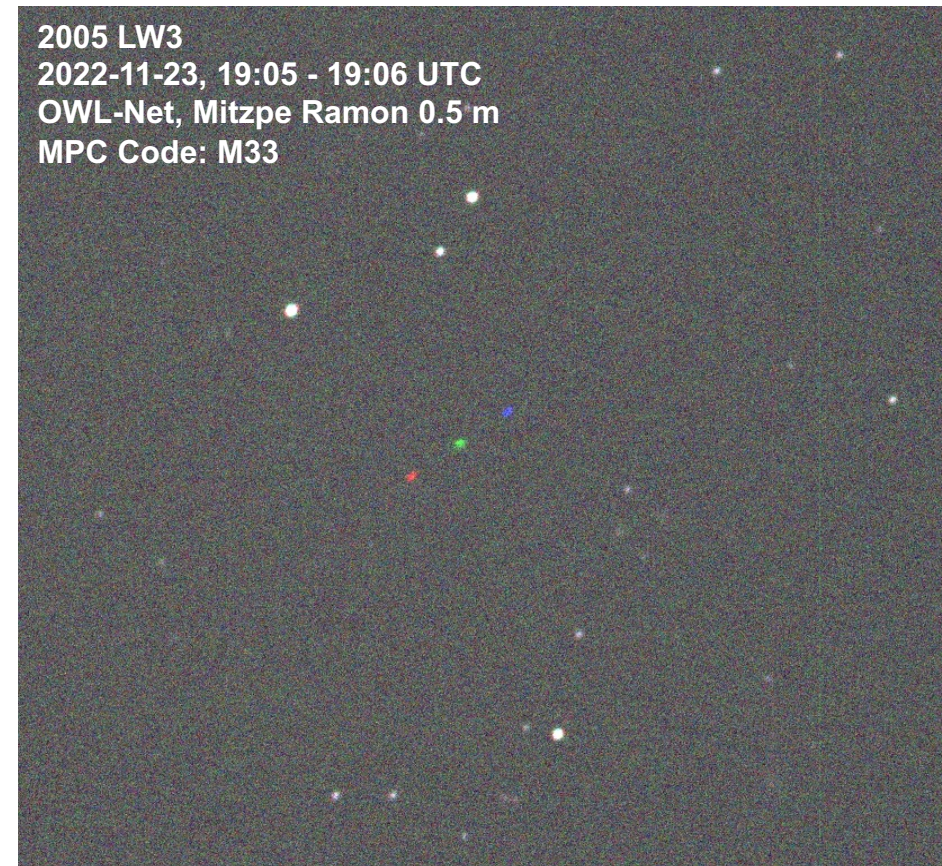
# Backgrounds: Science and planetary defense

- KASI joined in **IAWN-led observation campaign for 2019 XS** and **2005 LW** in Nov 2021 and in Nov 2022 using ..  
  
five **Optical Wide-field Patrol Network (OWL-Net)** stations and the testbed.
- KASI also joined DART impact plume monitor and light-curve observations as DART Investigation Team ..  
  
using KMTNet-CTIO for impact plume monitor and OWL-Net 0.5 m and the BOAO 1.8 m telescopes for LC photometry

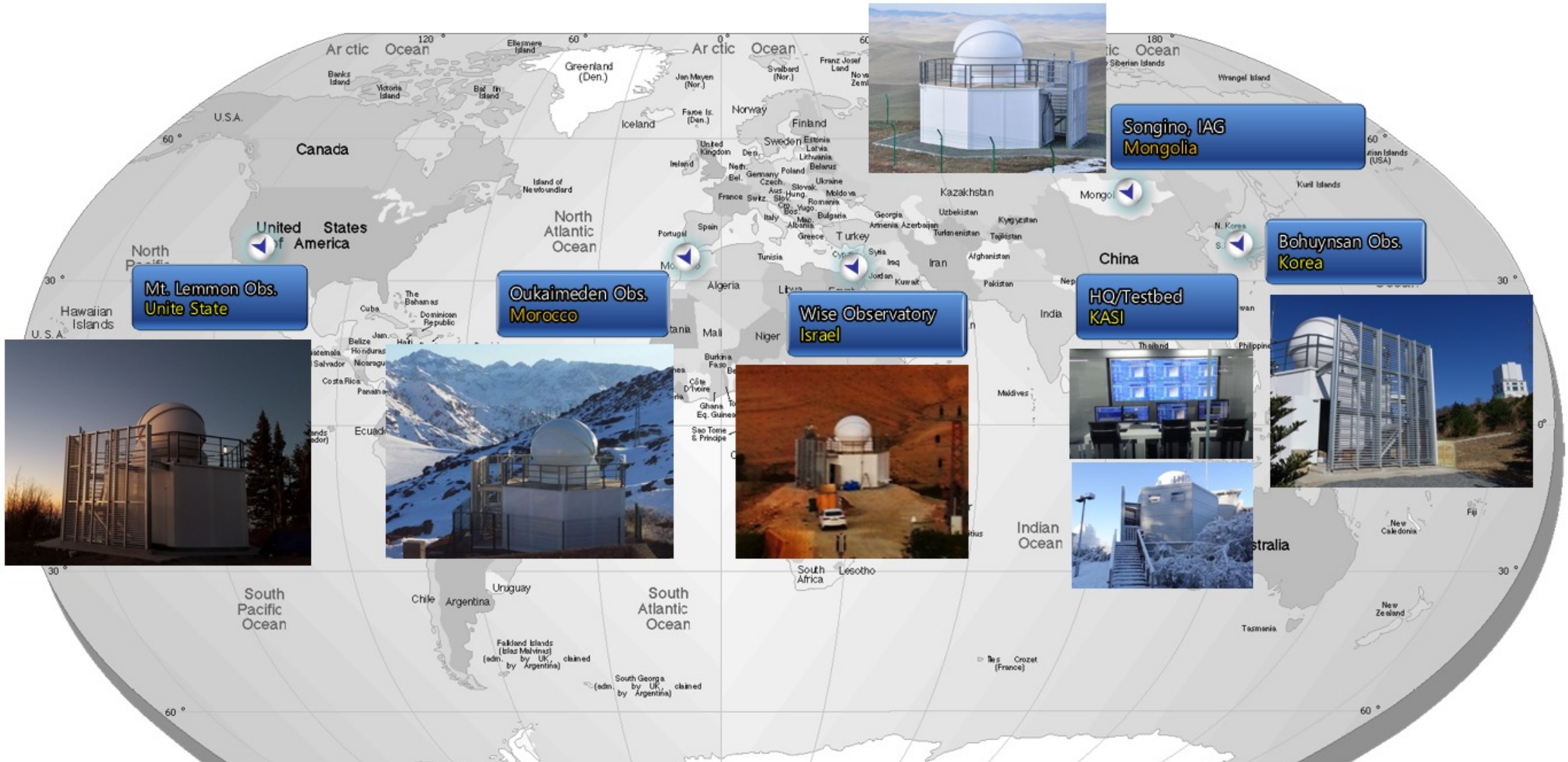
# Timing Campaign: 2019 XS & 2005 LW3

- KASI joined in **IAWN-led Timing campaign** for **2019 XS** and **2005 LW**

Target	DATE (UT)	SITE	Filter
<b>2019 XS</b>	2021-11-09.9	OWL-Net, Mitzpe Ramon	C
	2022-11-23.5	OWL-Net, Daedeok	C
	2022-11-23.5	OWL-Net, Mt. Lemmon	C
	2022-11-23.7	OWL-Net, Songino	C
	2022-11-23.8	OWL-Net, Mitzpe Ramon	C
	2022-11-23.9	OWL-Net, Oukaïmeden	C
<b>2005 LW3</b>	2022-11-24.3	OWL-Net, Mt. Bohyun	C
	2022-11-24.6	OWL-Net, Daedeok	C
	2022-11-24.6	OWL-Net, Mt. Lemmon	C
	2022-11-24.9	OWL-Net, Oukaïmeden	C
	2022-11-24.9	OWL-Net, Mitzpe Ramon	C
	2022-11-25.3	OWL-Net, Mt. Bohyun	C



# Optical Wide-field Patrol Network (OWL-Net)



# Didymos observations for NASA DART Mission

- We captured **the impact plume and ejecta tails from Didymos** after the DART Impact as member of DART Investigation Team

