Team SkyGuardian



Proven Pedigree

- 3.1 million MQ-9 flight hours
- Over 400 aircraft produced
- 22 (soon 36) MQ-9s operated by European NATO allies
- Over 90% system operational availability









MQ-9B SkyGuardian



MQ-9B is the only RPAS that meets Canada's interoperability requirements while seamlessly integrating with Canada's closest Allies





Team SkyGuardian Canada



- CAE
 - Employing CAE's core capabilities in Training and Air System Sustainment while providing opportunities for growth into new markets
- MDA
 - Extensive experience in surveillance and intelligence systems in land, maritime, and Arctic
- L3Harris Wescam
 - Advanced EO/IR sensor systems for extreme environments and weather conditions



Team SkyGuardian Puts Canada First

 Canadian industry involvement in MQ-9 SkyGuardian ensures sovereignty

Providing industrial benefits across Canada in the growing RPAS market

- Inclusive Team
 - Invitation to large and small companies across all regions of Canada to join Team SkyGuardian





Real Work Opportunities Now and Future

 More than 2,500 Canadian companies are already working with members of Team SkyGuardian.

Opportunities

- EO/IR Technologies
- Integrated Training & Sustainment
- Communications
- Avionics
- Composite manufacturing
- Artificial Intelligence
- R&D
- Propulsion Systems



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The World's Benchmark

Over 6 Million total flight hours 2019 - 639,117 flight hours



Long Endurance

and the second s

Mission Flexibility





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GA-ASI Company Overview



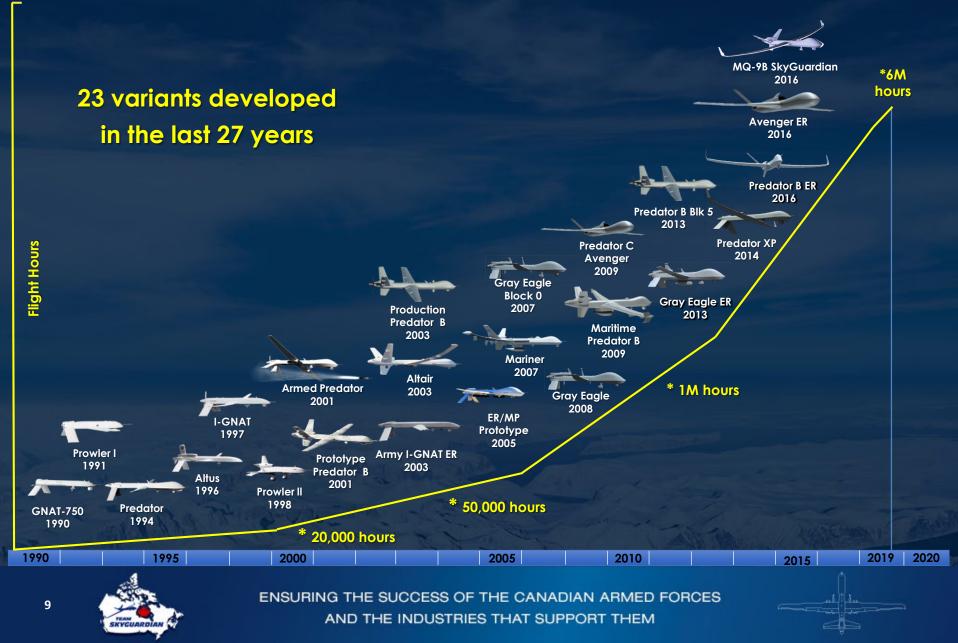




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Aircraft Growth and Evolution



Worldwide Control

Line-of-Sight







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Airspace Integration

MQ-9B SkyGuardian/SeaGuardian – Built for Certification
NASA Ikhana MQ-9A with DAA System

Ikhana

Certifiable Ground Control Station (CGCS)





Aircraft





GA-ASI Family of Aircraft

919 aircraft delivered

469 GCS delivered

647 Lynx Radar delivered

6,100,000+ flight hours - 90% combat hours

Worldwide Control – Ku-SATCOM data link



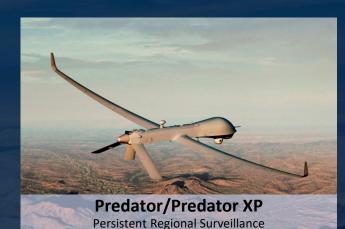
Avenger Armed Reconnaissance , Quick Response



Predator B/MQ-9 Reaper/SkyGuardian Hunter Killer/Maritime Surveillance



Gray Eagle U.S. Army Troop Support



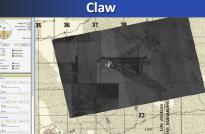


Remotely Piloted Aircraft (RPA) System















MQ-9B SkyGuardian

NISOLC

1D

- Built for Type Certification
- Designed for NATO airspace
- Compliant with NATO flight certification standards
 - STANAG 4671/UK DEFSTAN 00-970
- 40 hr endurance
- First flight: November 2016



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MQ-9B SeaGuardian

Expanding the Versatility of the Predator-series

- Predator-series Maritime Surveillance
 - Multimode 360^o Maritime Radar
- Anti-Submarine Warfare (ASW) Capable





Payloads





Payloads are Key Systems Integration — Core Competency

Payload Types

System Modes

EO/IR/LD	 Wescam MX-15, MX-20, M-12, M14TS IAI – TAMAM/MOSP s80/770 Raytheon Camera Systems + Others
Radar	 GA-ASI Lynx Multi-mode Radar Raytheon SeaVue Telephonics APS143V# ELTA/EL/M2022A(V3) + Others
Comm	 ARC-210 and Extender Comm Relay RVT Air-to-Air and Air-to-Ground Video Indium Low Data Rate Data Link Harris PRC-117 Radio Relay + Others
Specialized and Scientific Sensors	 Finder Mini UAV CSAR (Personnel Locator Beacon) NASA ACES (lightning sensors) RAF DB-110 NASA AMS (wild fire sensor) + Others
Classified Programs	Numerous Payloads
ENSUBING THE SUCCESS OF THE CANADIAN	ABMED FORCES



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AND THE INDUSTRIES THAT SUPPORT THEM

Current ISR Capabilities

Electro-Optic/Infrared

GA-ASI Lynx Multi-mode Radar



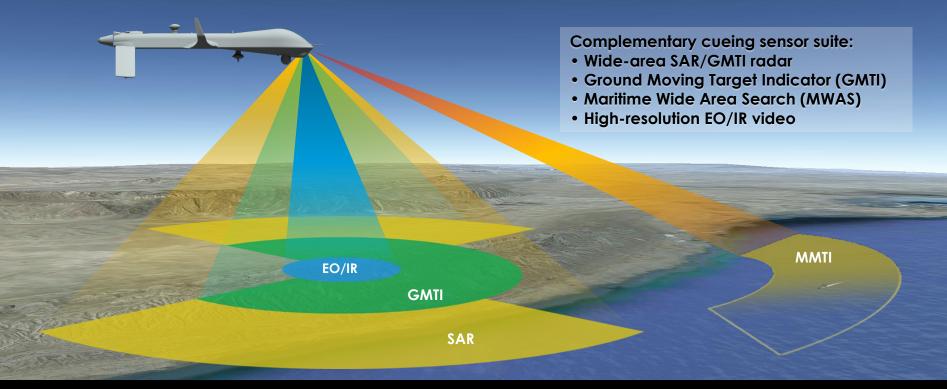
- Full-motion video
- EO/IR
- Laser illuminator



- Provides wide-area imagery
- Ground Moving Target Indicator
- Maritime Wide Area Surveillance
- Precision geolocation
- All-weather sees through clouds



Wide-Area Sensor Capabilities



All-weather SAR imagery



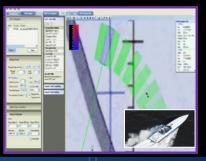
GMTI and EO/IR cross-cueing





EO/IR

MMTI and EO/IR cross-cueing





Missions





Payload Capacity = Multi-Mission Capability







Border Protection/Disaster Assistance



Maritime Surveillance



Domestic Border Protection Missions





ENSURING THE SUCCESS OF THE CANADIAN ARMED FORCES AND THE INDUSTRIES THAT SUPPORT THEM

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Disaster Recovery Post-Earthquake Search and Rescue



Haiti Earthquake







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Disaster Recovery – Firefighting

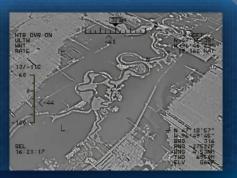






Disaster Recovery – Hurricanes and Flooding











Predator B Maritime Configuration

Operational with the U.S. Government Universal pod supports Sea Vue/Sea Spray maritime radars Equipped with Automatic Identification System (AIS)

Endurance 23 hr

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Speed 240 KTAS Altitude 45,000 ft Payload Capacity Internal 850 lb External 3,750 lb





Maritime Predator B – Guardian

• Able to detect, track, and identify

- Military Vessels
- Commercial Vessels
- Go-fast boats
- Life rafts
- Semi-submersible craft







GA-ASI Proven Aircraft Systems

- Supporting forces overseas, in homeland defense and civilian missions
 - Military persistence, strike & ISR land or sea
 - Border security
 - Civilian missions (fire mapping & disaster assistance)
- Expanding mission capabilities
 - Continuing Predator-series RPA upgrades
 - New aircraft and Advanced Cockpit development
 - Advancing sensor technology (e.g. EO/IR, SAR, GPS, laser)
- Providing interoperable RPA capability worldwide

