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# Rigid Inflatable Boat Aerial Delivery



Picture courtesy of US SOCOM

# MARITIME CRAFT AERIAL DELIVERY SYSTEM (MCADS)



# System History

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- Certified for use from UK C130K aircraft - 1990
- Certified for use from C130 aircraft - 1999
- Certified for use from C17 aircraft - 2003
- Certified for use from latest C130J aircraft - 2011
  
- US SOCOM has completed over 250 drops of the system to date without any major incidents or boat loss.

# System Use

The system is mainly used by Navy/ maritime Special Forces units for maritime counter terrorism and anti-piracy operations. An increase in these activities over the last 10 years has seen a number of new countries requiring this airdrop capability.

The system can also be used for Search and Rescue operations to get a RIB, rescue personnel and life rafts to survivors. The survivors can then be looked after until a rescue ship arrives.

The airdrop system can be adapted to meet user operational requirements.



➤ Platform Universal Rigid Inflatable Boat Aerial  
Delivery (PURIBAD)

6.5m to 8.5m RIB's



➤ Platform Rigid Inflatable Boat Aerial Delivery 21  
(PRIBAD 21)

9m to 12m RIB's



- 6.5m to 8.5m Boat
- 2.74m wide platform compatible with C130, C17 and A400M
- Parachute Extracted
- Boat released as load exits the aircraft
- 2, 3 or 4 main parachutes dependent on load mass
- Boat ready for use minutes after landing
- Platform recovery parachutes and floatation for training drops
- Drop height as personnel parachutists



7.53m Zodiac RIB

6.5m BAE Systems RIB





# Load Extracted



# RIB and Platform Descend



# Final Descent

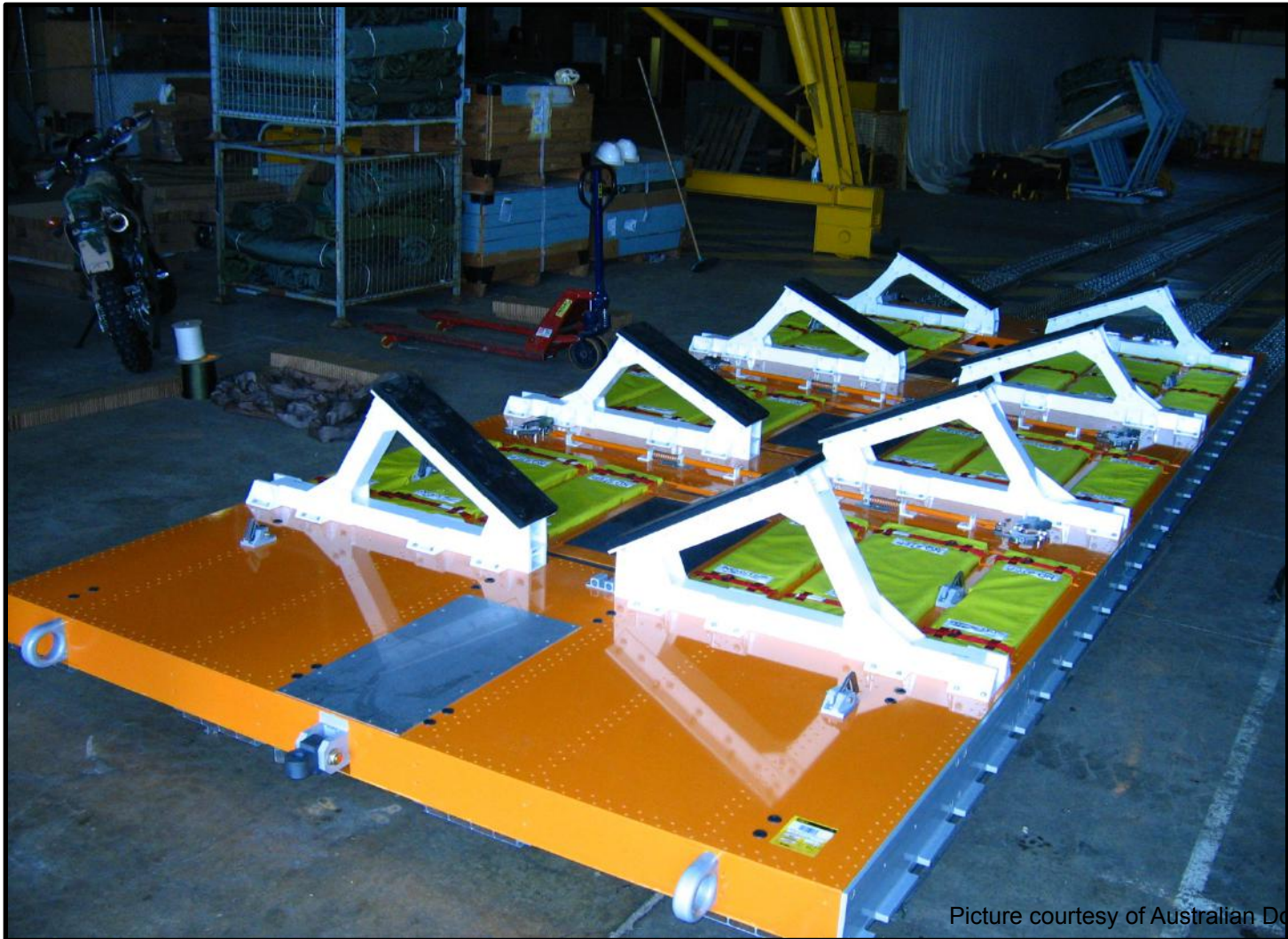


# MCADS PURIBAD Airdrop



- 9m to 12m Boats
- Platform
  - 2.76m (108") wide
  - 6.46m (21ft) long
- Parachute Extracted, 22ft or 28ft Ringslot
- 3 or 4 Main G11 Parachutes dependant on the boat mass
- Platform descends beneath G12 recovery parachute
- Drop Height Freefall 1000m AMSL
- Drop Height Static Line 300m AMSL

# MCADS PRIBAD 21



Picture courtesy of Australian DoD

# USMI 11m NSW RIB



Picture courtesy of US SOCOM

# Goldfish 11.5m RIB Rigged



Picture courtesy of Norwegian DLO



# 11m RIB Loading in C130H



Picture courtesy of Australian DoD

# Load Extraction



Picture courtesy of Australian DoD

# RIB and Platform Descend



Picture courtesy of Australian DoD

# RIB Splashdown



Picture courtesy of Australian DoD

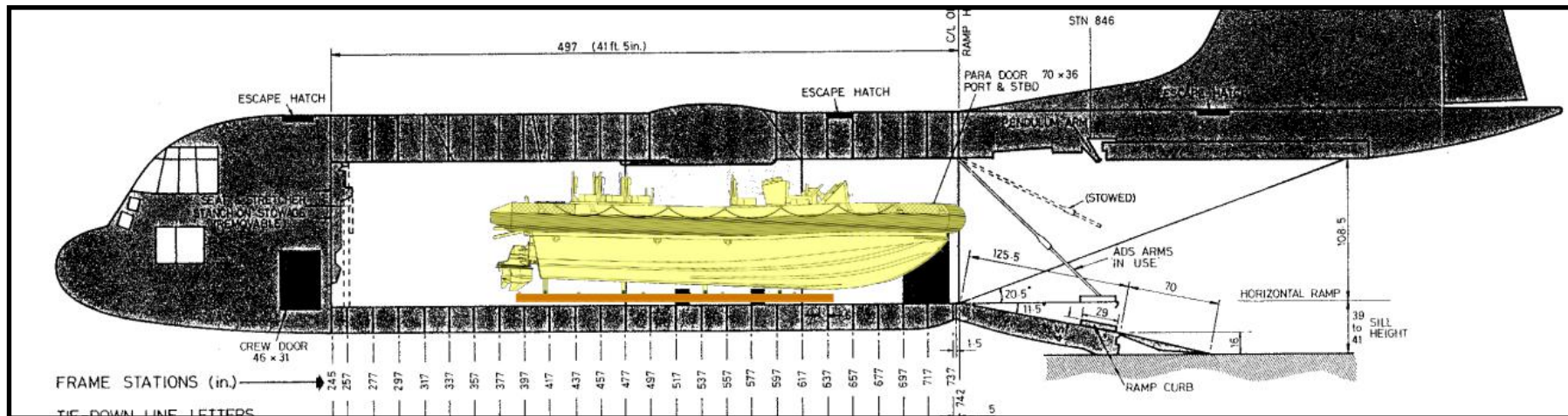
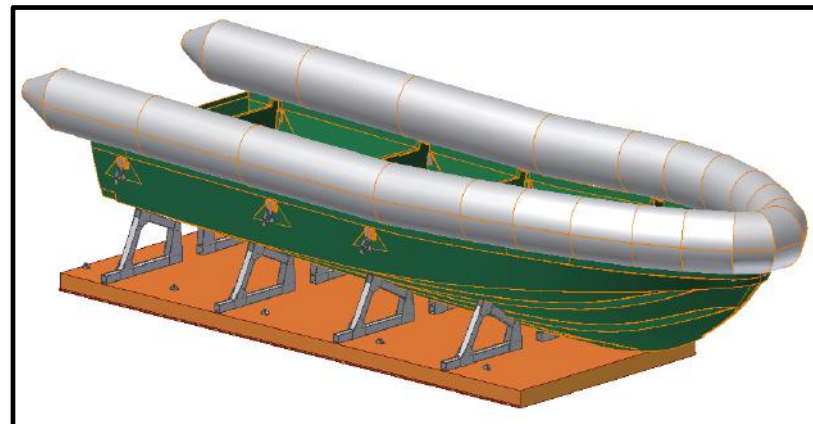
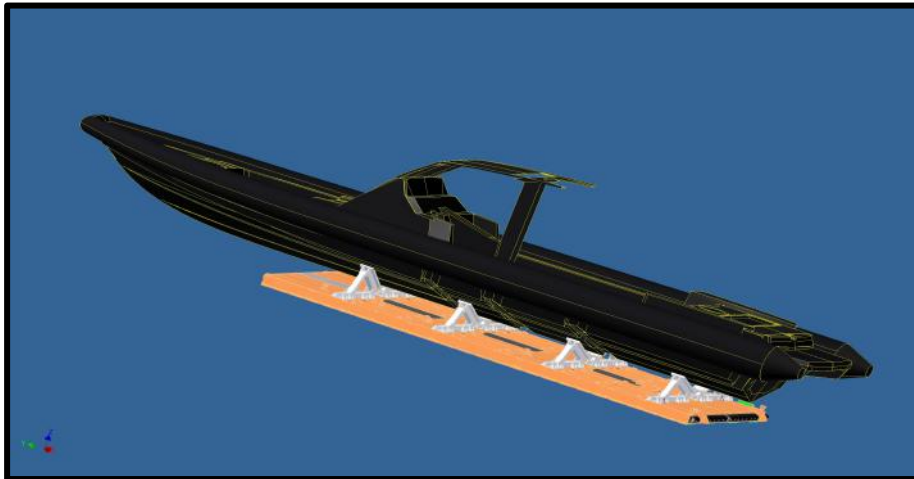
# Goldfish 11.5m RIB Airdrop



Video courtesy of Norwegian DLO

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# RIB, Platform, Aircraft Interface



# Boat Restraint Fittings



# Boat Suspension





# Main Parachute Release

- Two parachute disconnect systems to provide redundancy



Water activated parachute release

Atlas PR-A2 Mechanical  
parachute release



# Boat Airdrop Cover



# Parachute Tray Assembly



# Automatic Inflation System



- Trials Instruction
- Safety Assessment
- Ground Assessment
- Flight Test Programme
- Final Trials Report

- Platform Maintenance and user repairs
- Platform Pre and Post drop inspection
- Load Rigging
- Parachute Packing and repair
- Aircraft Loading
- In-flight procedures
- Equipment recovery

- Platform Maintenance and Repair
- Load Rigging
- In-flight procedures and checklists
- Equipment post drop procedures

# 2 x USMI 11m RIB's from C17



Video courtesy of US SOCOM



# Any Questions



Picture courtesy of US SOCOM