

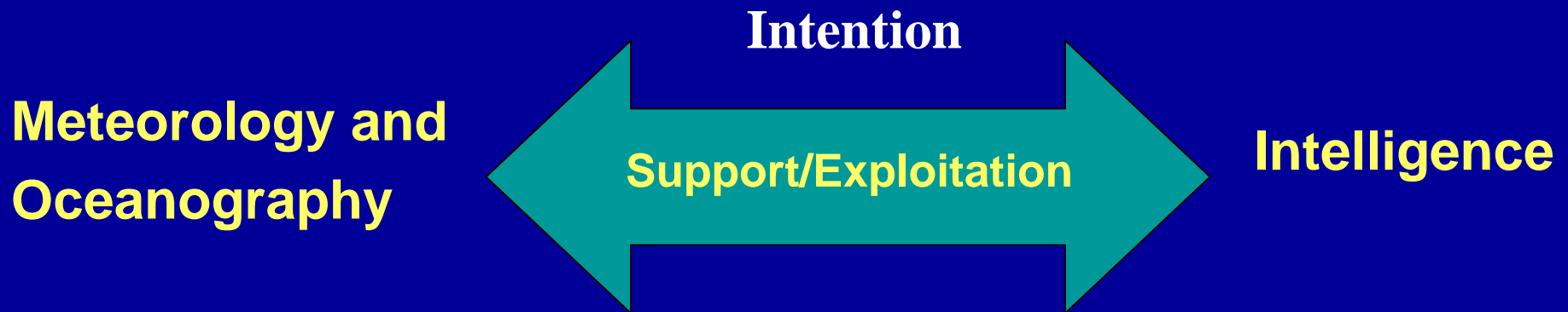
Directorate of Oceanography Operations
Intelligence, Surveillance, and Reconnaissance
(ISR OCEAN)

William Little

471-0068



Directorate of Oceanography Operations ISR



1. Space Based Imagery
2. Manned Aircraft Imagery
3. Unmanned Aerial Vehicle Imagery

Better battlespace METOC characterization for the warfighter.



Directorate of Oceanography Operations ISR

Intelligence Impact

- Target Area METOC is about including intelligence imagery from satellite, manned and UAV in addition to all the other unclassified weather and oceanographic observation resources in supporting the warfighter. This plus-up is significant, as it:
 - is controlled by the military.
 - only looks at locations of interest to the warfighter.
 - contains actionable METOC information.
 - is delivered fast enough to be useful in execution decisions.
 - costs next to nothing to extract and deliver this additional information.
 - METOC rarely tasks imagery collects.

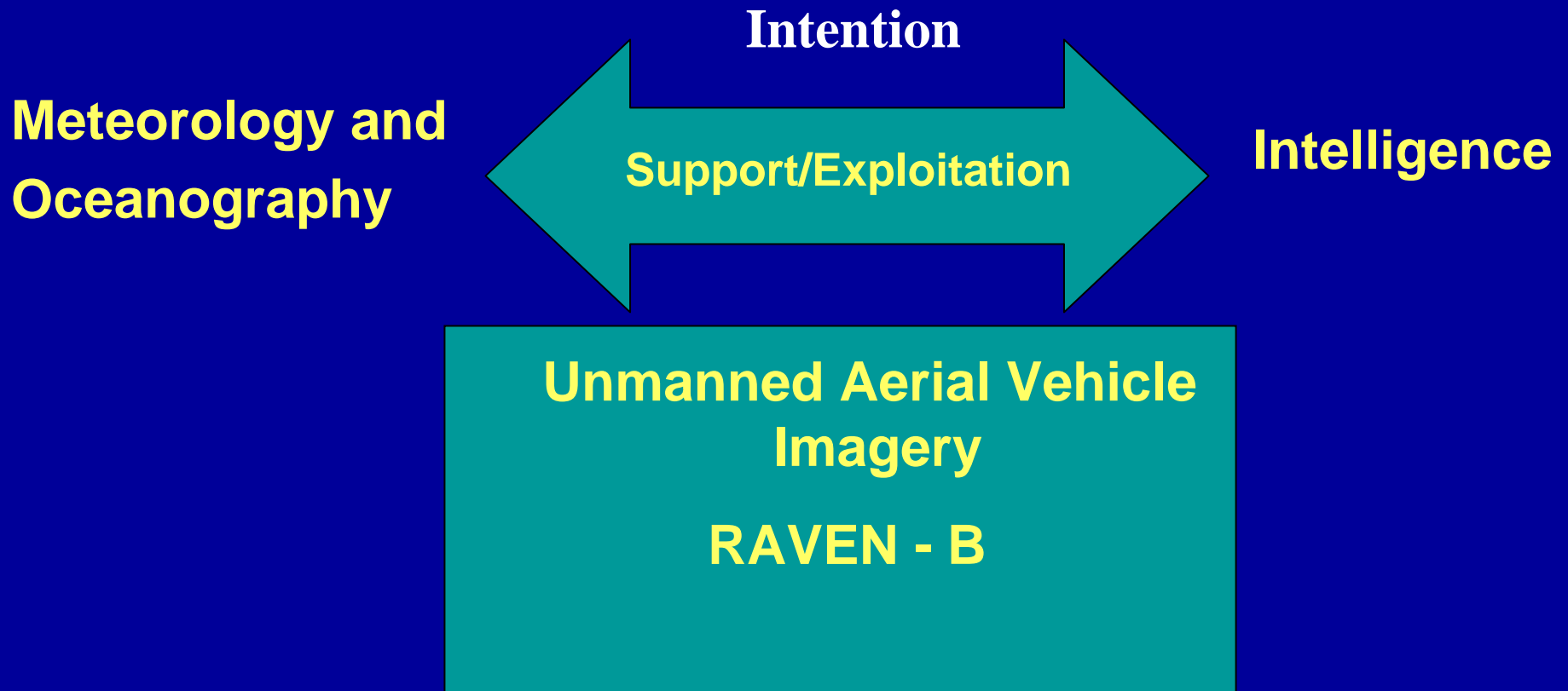








Directorate of Oceanography Operations ISR

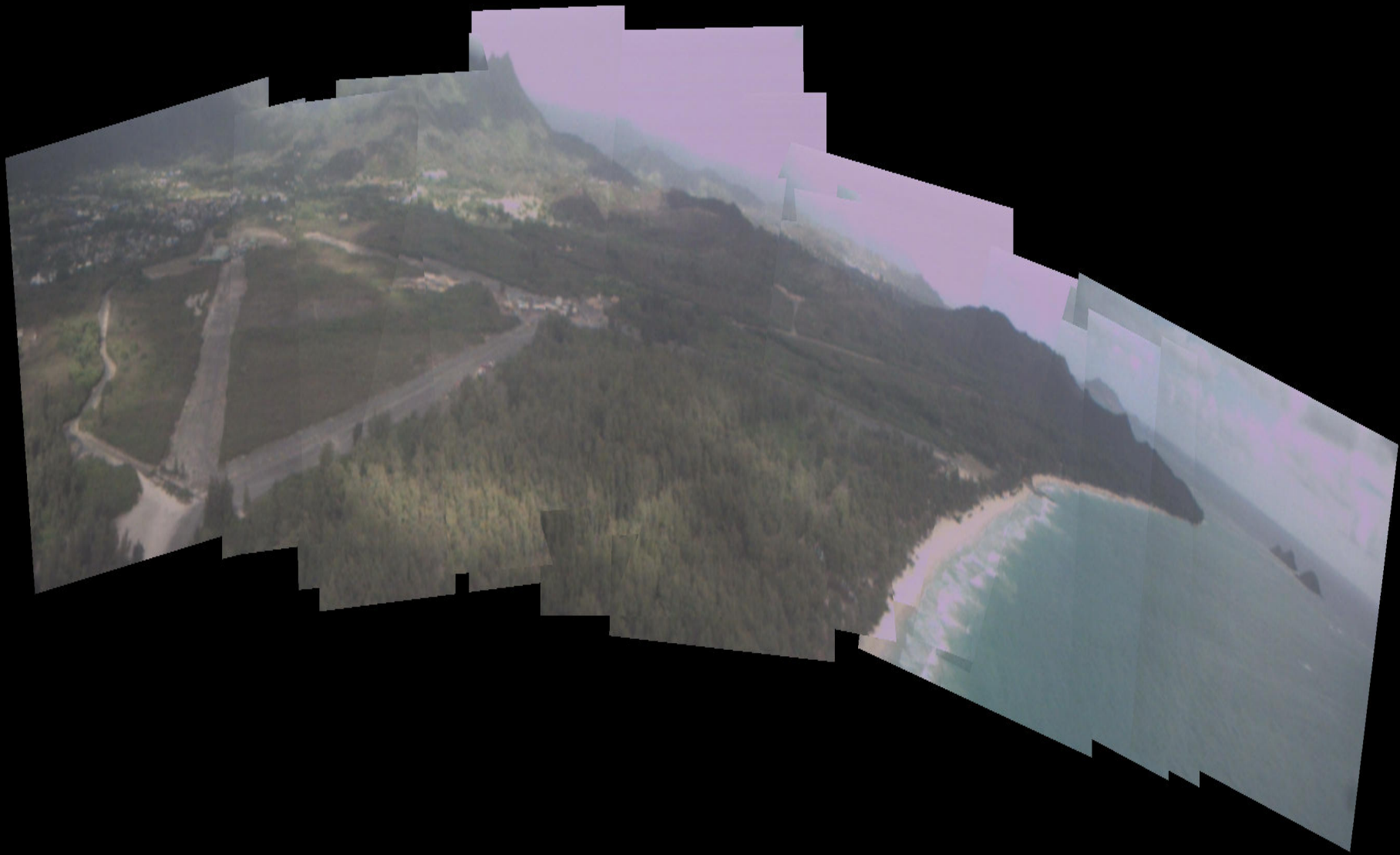


Better battlespace METOC characterization for the warfighter.











Bellows Beach

1400 25 Jul 08

Surf 1-2 ft

Surf width 80Ft

Littoral current south .2kts

Winds NE 9 – 14 kts



88/06/03 AAID
18:23:03

EDH 42
BFLI 28



ACFT 33:16:47H 172 181 33:19:46H
117:30:09W 5754 0 3.1 117:30:37W TGT

88/86/83 MAN
09:03:34

16 IFLT AUTO 00
78

SKY: CLR
VIS: 6 BR
BREAKER HT: 2FT
BREAKER PD: 10SEC
30% SPILLING
70% PLUNGING

2 LINES
10 SEC PERIOD

SPILLING

PLUNGING

33:07:28N
ACFT 117:19:34W 1835

INS STATE
ALIGNING TGT

UNCLASSIFIED



Directorate of Oceanography Operations ISR

Recent Press Releases

- **Sep 2008 Marine Corps buys 1,993 UAVs to fill urgent warfighter need.**
 - In past 60 days, the Marine Corps has bought almost 2,000 unmanned air vehicles from the Army and Air Force. This buy includes 13 of AAI Corp's Shadow air systems, 467 of AeroVironment's Raven B and 135 of its Wasp UAS.
- **Sep 2008 Navy Maritime Dominance Program Office announces selection of Global Hawk for its Broad Area Maritime Surveillance Project.**
 - Intention is to purchase up to 60 of these platforms
- **Sep 2008 DARPA awards \$4 million design contracts to Boeing, Lockheed Martin, and Aurora Flight Sciences.**
 - Initial funding in pursuit of a high altitude (90,000 ft) five continuous years aloft UAV.



QUESTIONS



UNCLASSIFIED