



How do I do that on the DDI/UFC/MPCD/HUD?



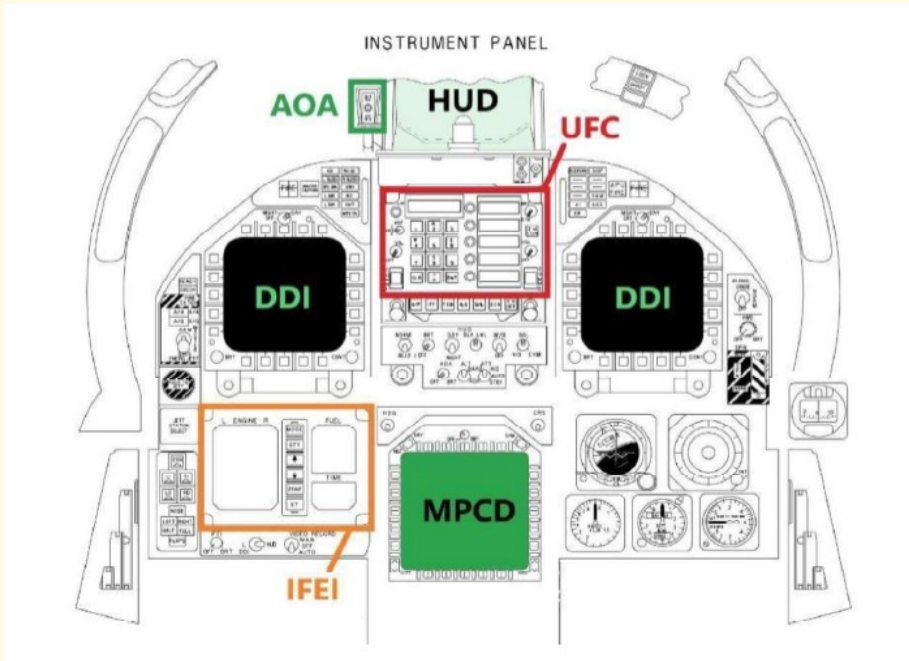
HORNET AVIONICS GOUGE - FLT SIM USE ONLY



NON-BONUS AVIATORS INC

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DCSW OB 2.9.4.X - 15 MAY 24 CH9

NOTE: The DCS F-18C HORNET AVIONICS GUIDE, (HAG), is an abbreviated aircrew checklist style product designed to quickly enable you to perform the desired task with the F-18C Avionics. It assumes you have familiarized yourself with the DCS F-18 User Guide and have watched some of the excellent online tutorials on the basic operation of the Upfront Control Panel (UFC), Digital Data Indicator (DDI), Multi-Purpose Color Display (MPCD), and the Head Up Display (HUD).



DESIRED TASKS are highlighted in black or other color with white lettering in the pages to follow. **[Green lettering]** enclosed by brackets depicts a “boxed” indication on the DDI. **Bold black text** represents the button to be pushed on the DDI/MPCD unless **(UFC)** or **(IFEI)** is indicated. Checklist pages may have multiple columns, so bottom right flows to top left when reading the checklist.

I recommend you create a mission with your F-18 airborne at Angels 25, with the desired weapons payload, and unlimited fuel so you can’t run out of gas while conducting button-pushing practice. Use **Active Pause (LSHFT+WINKEY+PAUSE)** to freeze the sim in flight. Now, use this gouge to practice the interactions between the UFC, DDI, MPCD, and HUD until they become second nature to you.

You can watch a video to learn once, then forget later; or place the HAG on a kneeboard or iPad and always have the information at your fingertips! Enjoy this DCS F-18C HAG, but remember: *“Lose sight, lose the fight!”* May all your carrier cat shots end with a three-wire trap and no bolters! - **Backy 51**

SUPERCARRIER CATAPULT LAUNCH C & D





\ > F8 - GND CREW F2 - GND ELEC PWR F1 - ON
EXT PWR - RESET GND PWR 1,3,4 - B ON (for 3 secs)
COMM 1 CH SEL KNOB > M (UFC) > CLR (UFC)
127.500 (UFC) > ENT (UFC) > \ F5 ATC > F1 CVN #XX
F3 - REQUEST STARTUP > F11 - PARENT MENU
\ > F8 - GND CREW F2 - GND ELEC PWR F1 - OFF

PERFORM MAN ENGINE START or (WINKEY +HOME)

F8 - GND CREW F4 - WHEEL CHOCKS F2 - REMOVE

TAXI TO ASSIGNED CATAPULT

WING FOLD - DOWN & LOCK HAND SIGNAL

EXTEND - LAUNCH BAR HAND SIGNALS

RETRACT - LAUNCH BAR HAND SIGNALS

THROTTLES - FULL POWER HAND SIGNAL

\ > F8 - GND CREW F6 - SALUTE


REQUEST LAUNCH AFTER TRAP

Hook - UP > \ F11> F8 GND CREW > F7 Request Launch

SUPERCARRIER NIGHT LIGHTING

COMM1/2 CH SEL KNOB -> M (UFC)
CLR (UFC) -> 127500 (UFC)
ENT (UFC) > :FM (UFC) > \ (KYBD)
F5 ATC (KYBD) > Fx CVN 71 (KYBD) x = SHIP #
F1 INBOUND (KYBD) CVN DECK LIGHTS ON

AOA INDEXER

Slow SS ON SF Fast
V V V V V
O O O O O (FLASHING O = HOOK UP)
^ ^ ^ ^ ^
Slow SS ON SF Fast

WAYPOINT SEQUENCE ENTRY (SEQI: 0-1-2-3-....-14)

MENU [TAC] > MENU [SUPT] > HSI
↑↓CYCLE WYPT [SEQI] > DATA > SEQUFC
INSERT (SEQI WP 0-14 / SEQII 15-29 / SEQIII 30-44)
:INS (UFC) > # (UFC) > ENT (UFC) (WP added to SEQ)
DELETE (Each SEQ group holds only 15 waypoints)
:DEL (UFC) > # (UFC) > ENT (UFC) (WP deleted from SEQ)

ACTIVE PAUSE

LSHIFT + WINKEY + PAUSE/BREAK

COLD AUTO START / AUTO SHUTDOWN

WINKEY+HOME / WINKEY+END

LAT/LON ENTRY

UFC > :POSN (UFC)
N/S DD.MM.SS (UFC) > ENT (UFC)
E/W DD.MM.SS (UFC) > ENT (UFC)
:ELEV (UFC) > :FEET (UFC)> ##### (UFC) > ENT (UFC)

MGRS GRID ENTRY

MENU [SUPT] > HSI > DATA > ↑↓ TO CYCLE WYPT (UFC) > :GRID
RDDI > Move TDC CURSOR TO Cardinal Direction >
TDC Depress to move 5x5 GRID 2-LTR Designators
Move TDC CURSOR TO 2-LTR Designator XX >
TDC Depress XX > [PRECISE] > (UFC) >
Input MGRS GRID 10-DIGIT # > ENT

DESIGNATE TARGET

HSI > ↑↓ TO CYCLE WYPT > WPDSG [TGT]

NAV WAYPOINT TO TGT

DATA > UFC > ↑↓ TO CYCLE WYPT > :ELEV (UFC) >
:FEET (UFC) > 0 (UFC)> ENT > HSI > WPDSG [TGT]

ALTIMETER SETTINGS




RADAR ALT > SET 40 CAT SHOT
RADAR ALT > SET 370 CASE I APPROACH or MDA
HSI > DATA > [A/C] > BARO
(UFC) > ENT (UFC) (MDA from TACAN APP Plate)

SET TOT FOR WAYPOINT (TARGETED WAYPOINT)

HSI > DATA > SEQUFC > :TOT (UFC) (in ZULU TIME)
HH.MM.SS (UFC) > ENT (UFC) > :TGT (UFC)
(UFC) > ENT (UFC) ([#] in DDI is WP you want TOT for)
Fly REQD GSPD to make TOT at targeted waypoint

HUD SLOW  ON TIME  ON TIME  HUD FAST

SET GROUNDSPED FOR TOT (IP TO TGT WP GS)

HSI > DATA > SEQUFC > :GSPD (UFC)
540 (UFC) > ENT (UFC) (540 or desired GS)
Fly REQD GSPD to make TOT at IP Then 540 to TGT
HUD SLOW  ON TIME  ON TIME  HUD FAST

CHECKLISTS

MENU [TAC] > MENU [SUPT] > CHKLST

COMM1/COMM2 RADIO
PULL CH SEL KNOB TO SET ACTIVE
ROTATE CH SEL KNOB TO SET CH #
CHANNELS 1-20/GUARD/MANUAL
COMM1/2 CH SEL KNOB > M (UFC)
CLR (UFC) > :AM (UFC)> 243000 (UFC) > ENT (UFC)
RADIO VOICE XMIT FREQUENCY RANGE
VHF/AM/FM: 118.0 - 155.995 MHz GUARD 121.5
UHF/AM/FM: 225.0 - 399.975 MHz GUARD 243.0
VHF/FM: 30.0 - 87.995 MHz 156.0 - 173.995 MHz
DISPLAY ZTOD ON HUD/DDI
HSI > [TIMEUFC] > :ZTOD (UFC)
DISPLAY MM:SS CD ON HUD/DDI
Set CD Timer mm.ss <= 06.00
HSI > [TIMEUFC] > :CD (UFC)
MM.SS (UFC) > ENT (UFC) start/stop timer
DISPLAY ET 00:00 ON HUD/DDI
HSI > [TIMEUFC] > ET (UFC) > ENT (UFC)
Press ENT start/stop the timer
CHANGE DATE
HSI > [TIMEUFC] > SET (UFC) >
:DATE (UFC) > MM.DD.YY(UFC)> ENT(UFC)
SET ZULU TIME ZONE ON IFEI
ZONE (IFEI) cycle time zone Local or Zulu
SET BINGO FUEL ON IFEI
↑↓ (IFEI) to set fuel quantity in lbs
(Maximum fuel pound entry = 20,000)
ELECTRONIC WARFARE (EW) ON HUD
MENU[SUPT] > MENU[TAC] > EW > HUD
MIDS LINK 16 POWER ON
D/L (UFC) > ON/OFF (UFC)
MENU [TAC] > MENU [SUPT] > SA
TURN MPCD MAP OFF (OPTIONAL)
MENU [TAC] > MENU [SUPT] > HSI
MODE > [MAP]
TURN MPCD MAP ON (OPTIONAL)
MENU [TAC] > MENU [SUPT] > HSI
MODE > MAP
SET BULLSEYE AIR2AIR WAYPOINT
HSI (MPCD) > WYPT > ↑↓ # (Cycle WYPT)
DATA > A/A WP > HSI

MIDS LINK 16 OPERATION
A/A MODE > ON > MST ARM > As Required
D/L (UFC) > ON/OFF (UFC)
MENU [TAC] > MENU [SUPT] > SA
A/P IFF TCN ILS D/L BCN ON OFF
UFC PUSHBUTTON PANEL - A/P MODE
A/P (UFC) > ON/OFF (UFC)
:ATTH (Attitude Hold) :HSEL (Heading Select)
HDG/CRS TOGGLE > HOLD DN 3 Secs to SET
When HSEL/CSEL on (UFC) XXX ENT (UFC) or
Slew to Set HDG before engaging :HSEL
:BALT (Hold current Barometric MSL Altitude)
:RALT (Hold current Radar AGL Altitude)
HSI > DATA > [A/C] > TAC BLIM (60°) /NAV BLIM (30°)
IFF MODE
IFF (UFC) > ON/OFF (UFC)
Modes :1/:2/:3/:3C/:4A/:4C > XXXX > ENT (UFC)
ADF/NDB/VOR MODE (:AM/:FM as req'd)
ADF 1/2 (UFC) > COMM1/M >XXX.X ENT (UFC) > HSI
TCN MODE AND TACAN FREQ PAIRING INFO
TCN (UFC) >ON/OFF(UFC) # (UFC) > ENT (UFC)
:A/A (Air to Air)
:X (X Band) or :Y (Y Band)
RAD/DME (Upper Left HSI)
TIME TO STATION (Upper Left HSI)
TACAN I.D. (Upper Left HSI)
TACAN ICON (On HSI)
<u>Note: TACAN CH 68/69 X/Y SHOULD NOT BE USED</u>
<u>BY LINK 16 EQUIPPED AIRCRAFT.</u>
Note: TACAN Channels span 1-126. X or Y Band.
For freq pair for CH 1-63 add 63 and for CH 64-126 subtract 63.
Example: CH 29X + 63 = 92X frequency pairing.
ILS MODE (ICLS)
ILS (UFC) > ON/OFF (UFC) # (UFC) > ENT (UFC)
Set ICLS CH 1-20 and set ICLS BRC with CRS toggle
D/L MODE (LINK 16)
D/L (UFC) > ON/OFF (UFC) > # 127 (UFC) > ENT (UFC)
:AIC INOP
:F/F1 (SECURE CH 1) :F/F2 (SECURE CH 2)
:VOCA (VOICE CH A) :VOCB (VOICE CH B)
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UPFRONT CONTROL PANEL (UFC BU)

MENU [SUPT] > UFC BU > [COM1/COM2]

↑CHAN↓ or **PAGE1/2** CHANGE COM CH line

INPUT 6 DIGIT FREQ via PB followed by **ENT**

MENU to return to main DDI page

SET (T) TIME/ (D) DATE ON IFEI PANEL

MODE > MODE (IFEI) > ↑↓ CHANGE FLASH

QTY (IFEI) > cycles H/M/dIF H/Y/M/D

MODE (IFEI) > TO EXIT EDIT MODE

OFFSET (O/S) AIM POINTS (OAP)

HSI > [WYPT] > ↑↓ # > WPDSG

SCS ◇ RDDI > FOV

DATA > [WYPT] > UFC > :O/S >

:RNG/:BRG/:ELEV/:GRID (MENU TREE BELOW)

:O/S > :RNG > :FEET/:MTRS/:NM/:YARD >

XXX > ENT

:O/S > :BRG > :TRUE/:MAG > XXX > ENT

:O/S > :ELEV > :FEET/:MTRS > XXX > ENT

:O/S > :GRID > XXXXXX > ENT

CHECK DATA ENTRY FOR **O/S** UNDER **WYPT #** POPULATES

- **O/S RNG** - **O/S BRG**

- **O/S GRID** - **O/S ELEV**

HSI > [TGT] > OAP > WPDSG > [OAP] > O/S

OBSERVE SENSOR SLEWS TO OAP

[TGT] > OAP > WPDSG (IF REQ'D)

SLEWS SENSOR BACK TO WYPT DESIGNATION

AUTOPILOT COUPLE (CPL) WYPT MODE

[WYPT] > ↑↓WP# > [Auto] > :CPL (UFC)

CRS TOGGLE SLEW SETS CRS INBD TO WP

AUTOPILOT COUPLE (CPL) TCN MODE

TCN (UFC) > ON/OFF (UFC) > XX ENT

HSI > [TCN]

CRS TOGGLE SLEW SETS CRS INBD TO TCN

AUTOPILOT COUPLE (CPL) TGT MODE

A/G > ON > WPN MODE - AUTO

FLIR > WPDSG > A/P (UFC) > :CPL

CPL TURNS ACFT DIRECT TO WPDSG TGT

MARK POINTS USING TGP DESIGNATE

TDC - DEPRESS > VERIFY AIM CROSS / DESIGNATE ◇

HSI > [MK#] > VERIFY change to MK1

There 9 markpoints MK1-MK9 available for use.

**JOINT HELMET MOUNTED
CUEING SYSTEM (JHMCS) OPERATION**

A/G > ON > HMD ROTARY KNOB - BRT

SCS - UP (FWD) > VERIFY HUD/HMD SOI ◇

CONFIRM HMD SOI ◇ when looking outside L/R

CONFIRM HMD AIMING RECTICLE DISPLAYS

SNSR PANEL - FLIR > ON

FLIR PAGE - DISPLAY ON DDI [TAC] > FLIR

CENTER HMD AIMING RECTICLE ON TARGET

TDC - DEPRESS > VERIFY AIM CROSS / DESIGNATE ◇

TDC - SLEW TGP (IF REQ'D) FOR TGT REFINEMENT

HSI > [TGT] (IF REQ'D) TO UNDESIGNATE TGT

ALR-67 SYMBOLOGY



EWR Radar



AAA Radar



Correlate HOSTILE



Ambiguous Track



Friendly Track



HARM Trk Correlate



FLIR Track Correlate



ECM JAMMER

MARK POINTS USING OVERFLIGHT

Press **UNDESIGNATE** Button on flight grip.

Ensure no designation by TGP, RDR, WYPT



When overhead desired location:

HSI > [MK#] > VERIFY change to MK1

You can recall any **MK1-MK9** on **HSI** ,

then box **[WYPT]** and use it to **WPDSG**

that markpoint.

AUTO CARRIER LDG SYS (ACLS) MODE 40NM STRAIGHT-IN TECHNIQUE ONLY	AUTO CARRIER LDG SYS (ACLS) MODE CONTINUED
TCN (UFC) > ON SET CVN CH #	@ 10 DME / 1200M / 250 KIAS CHECK
RADIO CALL - F1 INBOUND	GEAR DOWN and HALF FLAPS
BEGIN DESCENT TO 6000 NLT 30 DME	@ 8 DME - GO FULL FLAPS
ILS (UFC) > ON SET CVN CH #	HUD - 'DATA' - (Check <i>flashing</i>)
D/L (UFC) > ON SET LINK-4 FREQ	LDDI - LND CHK - CMD A/S 140
(336.0 is default FREQ - Check <u>K</u> neeboard)	LDDI - CMD ALT 1200 - CMD ROD 0
LDDI > [SUPT] > HSI > ACL - TEST to ACL1	@ 6 DME - LSO ACLS LOCK ON CALL
RDDI > [SUPT] > HSI > [TCN] - CRS Toggle	Engage ATC 140 KIAS (Check HUD)
RDDI > CSEL > BRC ### > ENT	CHECK AOA ON SPEED ○
Set 300 KIAS > Engage ATC (Check HUD)	Slow SS ON SF Fast
Level 6000 MSL > Engage A/P :BALT	V V V V V
@ 30 DME RADIO CALL - F2 ESTABLISHED	○ ○ ○ ○ ○ (FLASHING ○ = HOOK UP)
HUD - 'DATA' - (Check <i>flashing</i>)	^ ^ ^ ^ ^
LDDI - T/C (Traffic Control)	Slow SS ON SF Fast
LDDI -  (Intercept Direction)	HUD - 'DATA' - (Check <i>flashing</i>)
LDDI - CMD A/S 300 - CMD ALT 6000	LSO FLY NEEDLES CALL
LDDI - CMD ROD 0 - (Rate Of Descent)	LDDI - ALL RDY <u>MODE 1</u>
(CMD ROD will be 0 if on CMD ALT)	A/P > :CPL (ACLS HANDS OFF ENGAGED)
MPCD > [SUPT] > CHKLST	HUD - CPL P/R (Pitch/Roll Mode Engaged)
HOOK BYPASS - CARRIER	HUD - TADPOLE ♀
ANTISKID - OFF	@ 4 DME - LSO GLIDE PATH CALL
SET BINGO - 3500 ↑ ↓ (IFEI)	HUD - 'DATA' - (Check <i>flashing</i>)
SET RDR ALT - 250 & HUD ALT SW - RDR	LDDI - <u>CMD CNT MODE 1</u>
@ 21 DME RADIO CALL - F3 COMMENCING	@ 3 DME - CHECK ALIGNMENT
HUD - 'DATA' - (Check <i>flashing</i>)	HUD - TADPOLE ♀ ON FLT PATH VECTOR
LDDI -  (HDG TO CVN)	HUD - ON GLIDESLOPE
LDDI - CMD A/S 250 - CMD ALT 2500	@ 1 DME RADIO CALL - F2 HORNET BALL
LDDI - CMD ROD 4000	ON TOUCHDOWN - FULL THROTTLE
RADIO CALL - F2 CHECK IN	ON GOOD TRAP - THROTTLE IDLE
(NOTE: HUD ROD is above HUD ALT)	FLAPS UP - HOOK UP - WINGS FOLDED
BELOW 5000M RADIO CALL - F3 PLATFORM	TAXI TO CATAPULT OR PARKING
HUD - 'DATA' - (Check <i>flashing</i>)	ON LSO WAVEOFF
LDDI - CMD A/S 250 - CMD ALT 1200	BOLTER - BOLTER - BOLTER
LDDI - CMD ROD 2000	ON NEGATIVE GHOSTRIDER
SET MPCD/DDI DIST SCALES 20/10NM	THE PATTERN IS FULL
SET ATC AS REQUIRED	PREPARE TO RTB TO NEAREST AIRBASE
CHECK HUD STEERING CUES	IF MIN FUEL PREPARE TO EJECT
CVN STERN LASER LIGHT CODE	IF EJECTING AT NIGHT IN THE WEATHER
● COME RIGHT ● ON COURSE ● COME LEFT	THINK ABOUT THAT AIR FORCE UAV JOB

SITUATIONAL AWARENESS (SA) PAGE

C2 - INOP

SENSR - SELECT SA DISPLAY OPTIONS

- > LINK4/FLIR/HARM/IFF - (WIP)
- > RWR - **ALL**/CRITICAL/LETHAL/CRITICAL
- > FRIEND - OFF/NO ID/RWR ID
- > UNK - UNKNOWN CONTACTS ON/OFF
- > SA - RETURN TO SA PAGE
- > OCS1/OCS2 - INOP
- > F/F - DISPLAY FRIENDLY FIGHTER DATA
- > PPLI - DISPLAY PRECISE PARTICIPANT LOCATION I.D.
- > SURV - DISPLAY C2 AWACS AIRCRAFT DATA (E-2/E-3)
- > MAP - TOGGLES MAP ON/OFF
- > DCLTR - DECLUTTER
- > SCL/X - CYCLES SCALE OF SA DISPLAY BETWEEN 5 TO 320 NM
- > 320 NM SCALE REQUIRES DCNTR SELECTED
- > MK2 - INOP
- > DCNTR - DECENTER TO EXPAND FOV FWD OF ACFT 3/9 LINE

- > DCNTR - ALLOWS 320 NM SCALE SELECTION
- > WYPT - WAYPOINT DATA ENABLED/ARROWS CYCLE WYPTS
- > WPDSG - WYPT DESIGNATE TGT (PRESS TGT TO RETURN)
- > SEQ1 - DISPLAYS WAYPOINT ROUTE OF FLIGHT SEQUENCE
- > AUTO - AUTOMATIC WAYPOINT SEQUENCE ADVANCING ON
- > TXDSG/STEP/EXP - WIP
- > C:# - CHAFF QUANTITY REMAINING
- > F:# - FLARE QUANTITY REMAINING
- > O1/O2: # - INOP

PLID - SELECT PILOT I.D. OPTIONS

- > I.D. RDR CONTACT STATUS WITH TDC OVER TGT
- > **FRND**/**HOS**/**UNK** (Friendly/Hostile/Unknown)

GROUND RADAR OPERATION

A/G - **ON** or **SURF** IF ALREADY IN A2A RDR MODE

RNG - **↑↓** 5/10/20/40/80/160 AZM - **20/45/90/120**

[FRZ] - FREEZE DSPLY **RSET** - RESET TO DEFAULT

[SIL] - SILENT MODE FOR EMCON 3/4 WILL [FRZ] ALSO

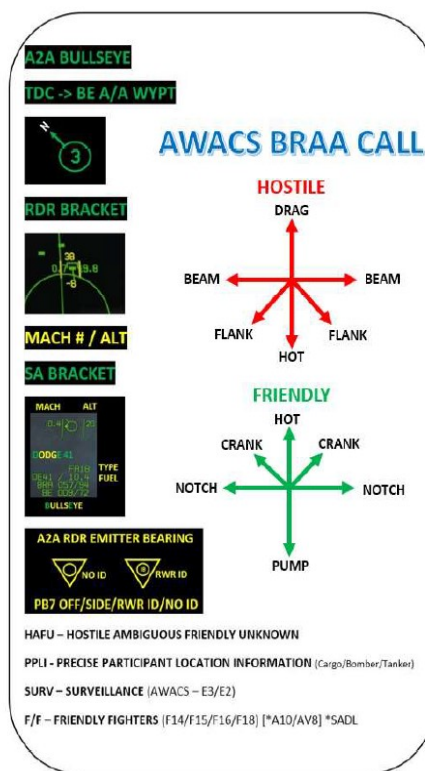
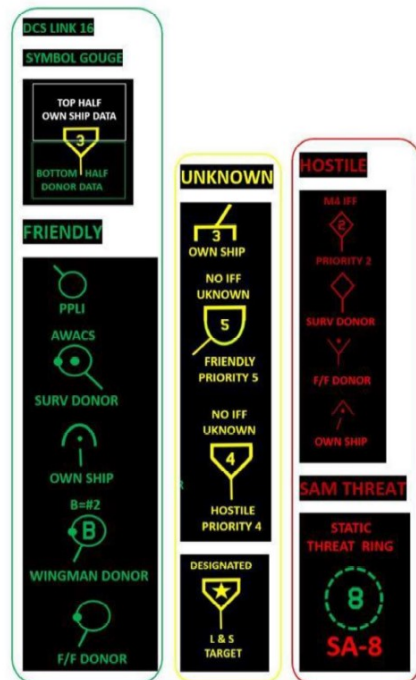
[DATA] - [DCLTR] **GN** - **↑↓** SET TO 2 & RDR TILT TO - 3-5°

PEN/FAN - PENCIL BEAM & NARROW AZM DIRECTS MORE ENERGY

SCS - RIGHT SOI - **◇** USE TDC TO SLEW RDR CROSSHAIRS

DEPRESS TDC TO RDR DESIGNATE GND TGT

HUD WILL DSPLY STEERING **◇** CUE



HAFU - HOSTILE AMBIGUOUS FRIENDLY UNKNOWN

PPLI - PRECISE PARTICIPANT LOCATION INFORMATION (Cargo/Bomber/Tanker)

SURV - SURVEILLANCE (AWACS - E3/E2)

F/F - FRIENDLY FIGHTERS (F14/F15/F16/F18) [*A10/AV8] *SADL

JDAM/JSOW NON-TGP PP MODE	JDAM/JSOW TGP TOO MODE
OBTAIN TGT COORDS IN DD.MM.SS.SS	ENGAGE A/P :BALT AND ATC AS REQ'D
A/G - ON > MASTER ARM - ON	SNSR PANEL > FLIR - ON > RDDI - [TAC] > FLIR
LDDI - STORES > RDDI - HSI > SEQ1	LDDI - STORES > [J-82] > MODE > TOO >
LDDI - J-82 > EFUZ > INST	EFUZ > INST > JDAM DSPLY > MSN >
JDAM DSPLY > REL TYPE -> MAN	SCS - RIGHT > VERIFY RDDI SOI ◇
VERIFY MODE PP - PP#	FOV > WIDE/NAR > CAMERA > CCD/FLIR >
QTY > STA# > RTN > MSN > TGT UFC >	WHT/BLK > TDC - SLEW TO TGT > OPR ATRK >
POS > LAT > NDDMMSS > ENT > SS >	SCS - RIGHT > OPR PTRK > VERIFY [TGT] BOXED >
ENT - VERIFY LAT	TDC - DEPRESS > VERIFY COORDS/TMR HUD
TGT UFC > POS > LON > WDDMMSS >	WHEN HUD COUNTDOWN TIMER EXPIRES PICKLE
ENT > SS > ENT - VERIFY LON	LGB TGP AUTO MODE
TGT UFC > ELEV > FEET > XXXX > ENT	LDDI - STORES > [83LG] > MODE > AUTO > MFUZ >
VERIFY ELEV	OFF > EFUZ > INST > CODE > 1688 > ENT (UFC)
TGT UFC > TERM > HDG > XXX > ENT	SNSR PANEL -> LTD/R > ARM > RDDI > [TRIG] >
TGT UFC > TERM > ANG/HT > XX > ENT	[UFC] > UFC > LTDC > 1688 > ENT
TGT UFC > TERM > VEL > XXX > ENT	TDC - SLEW TO TGT > TDC - DEPRESS > AUTO IN HUD
VERIFY HDG/ANG/VEL > RETURN > MSN	PICKLE > TRIGGER - HOLD > LTD/R ON RDDI
(VERIFY PP# STA# WITH SELECTED	LMAV TGP LASER MODE
STORES PAGE STA# AND USE STEP TO	LDDI - STORES > [MAV] >
CHANGE STA# TO MATCH MSN PAGE	UFC > CODE > 1688 > ENT (UFC) >
STA# IF REQ'D) > RETURN	MAV > UNCAGE > TDC >
STEER TO TARGET ◇ IN HUD	TDC - SLEW TO TGT > [TRIG] > TDC - DEPRESS >
VERIFY COUNTDOWN TMR IN HUD IS DECREASING	TMR IN HUD > TRIGGER - IN TO LAZE > WPN REL
WHEN TMR IS IN RNG HOLD PICKLE UNTIL WPN REL	LASER SPOT SEARCH (LSS) & JTAC LAZING
F6 TO VIEW BDA IF DESIRED > ENTER HOLDING TO	LDDI - STORES - [RE] > MODE > CCIP >
REPROGRAM AND REATTACK WITH ADDL WPNS	MFUZ > VT > EFUZ > OFF > HT > 1500 > ENT >
JDAM/JSOW STEP PROCESS	[UFC] > QTY > 2 > ENT (UFC) >
JDAM DSPLY > QTY > 2 (or more) >	TDC - SLEW TO TGT > TDC - DEPRESS >
RTN (STEP button is now displayed)	SNSR PANEL > LST/NFLR > ON > RDDI > LSS > 1688
WALLEYE W/O DATALINK	CALL JTAC > CALL FOR LASER ON > RDDI > [LSS] >
A/G - ON > MASTER ARM - ON	TDC - DEPRESS > AUTO RELEASE
WEDL [WEDL] [INST] SCS - LEFT SOI ◇ > UNCAGED	TGP IR MARKER MODE
SLEW TDC > HUD > WE > WPN REL > PICKLE	LDDI - STORES > [83LG] > MODE > AUTO >
WALLEYE W/ DATALINK	MFUZ > OFF > EFUZ > INST > CODE > 1688 > ENT (UFC)
WEDL [WEDL] [INST] SCS - LEFT SOI ◇ > UNCAGED	SNSR PANEL > LTD/R > ARM > RDDI > [TRIG] >
SLEW TDC - [DL13] - WPN - WEDL [INST] IS CH# = STA#?	[MARK] > [UFC] > UFC > LTDC > 1688 > ENT
[UFC] > :CHNL > STA# > ENT CONFIRM LIVE VIDEO	TDC - SLEW TO TGT > TDC - DEPRESS > AUTO IN HUD
WPN REL - PICKLE SLEW TDC TO REFINE AS REQ'D	PICKLE > TRIGGER - HOLD > LTD/R ON RDDI

SLAM-ER DATALINK TOO MODE W/STP

A/G - **ON** > MASTER ARM - **ON**
LDDI - **STORES** > **[SLMR]** > **[DL13]** > **MODE TOO**
RDDI - **HSI** > **[WYPT]** > **#↑** > **[WPDSG]**
CHECK **TIMING** < **7:30** ALIGN QUAL GOOD
LDDI - **FLT** - (**HIGH/MED/LOW**) **EFUZ** - **INST**
[WEP] > **SLMR (REL STA)** > **[SLMR]**
X TMR - (Time Max Range) **XXX TTS** - (Time To Sensor)
[STP] > **:STP1** > **:VEL/:WYPT/:POSN/:ALT/:DEL**
SLAM DSPLY > **[UFC]** > **: DIST > 20 > ENT**
REL TYPE > **MAN/AUTO LOFT/FD** > **MSN**
CHECK **TARGET DATA ON LDDI**
RETURN > CHECK **FLT** PROFILE > **HUD** **◇** **TMR**
HUD > **IN RNG** > **PICKLE**
RDDI - **[TAC]** > **DL13 DSPY** > **[DL13]**
CHECK **CH XXX XX.X CENT** (NM TO TGT)
UFC > **[UFC]** > **:CHNL ≥ CH#** > **ENT**
A ANT (FWD) or **[A ANT]** (AFT) & **WHT/BLK**
SCS - **RIGHT** > **RDDI** - **SOI** **◇**
SEEKER ACTIVE > **TDC Hold** & **Slew Cursor** to **TGT**
Release **TDC cursor** on **TGT** & use **FOV** as req'd

HARPOON BOL MODE

A/G - **ON** > MASTER ARM - **ON**
[HPD] > **MODE BOL** > **FLT (HIGH/MED/LOW)**
TERM (SKIM/POP)
[UFC] > **:SRCH** (XX NM B4 SEEKER ON) > **XX ENT** >
:DSTR (XX NM B4 DESTRUCT) > **XX ENT** >
:BRG (DEGREES ATTACK AXIS) > **XXX ENT**
[HSI] > CONFIRM **SRCH** AND **DSTR** DISTANCES

HARPOON FIXED POINT MODE WPN REL

[FXP] > SEARCHES BETWEEN **SRCH** & **DSTR** DISTANCE
LDDI - CHECK **[HPD]** **RDY** >
CONFIRM **HUD** > **IN ZONE** & **HP BOL** > **PICKLE**

HARPOON TURN POINT MODE WPN REL

[HPTP] > **HPN** FLIES TO NAV **WYPT** THEN TURNS TO
SEARCH BETWEEN **SRCH** & **DSTR** DISTANCE FOR **TGT**
RDDI > **[WYPT]** > **↑** (TO DESIRED **WYPT** #) **[HPTP]**
LDDI - CHECK **[HPD]** **RDY** >
CONFIRM **HUD** > **IN ZONE** & **HP BOL** > **PICKLE**

SLAM DATALINK TOO MODE

TGT COORDS FROM WAYPOINTS

A/G - **ON** > MASTER ARM - **ON**
LDDI - **STORES** > **[SLAM]** > **[DL13]** > **[WEP]**
SLAM > **MODE TOO** > **FLT (HIGH/MED/LOW)**
EFUZ (**INST**) > **SLAM DSPLY** > **[UFC]**
: DIST > 15 > ENT (SEEKER ON XX NM FROM TGT)
REL TYPE > **MAN** > **MSN**
RDDI - **HSI** > **[WYPT]** > **↑** (TO DESIRED **WYPT** #)
WPDSG > **[TGT]** > **SCL 20/40/80** AS REQ'D
TGT UFC > **POS** > **LON** > **WDDMMSS** >
CHECK **HUD TMR** - (TIME TO MAX RANGE)
CHECK **HUD DIST TO TGT** - VERIFY **IN RNG**
RETURN - CHECK **TTS** (TIME TO SEEKER)
CHECK **[SLAM]** **RDY** - **WPN REL** - **PICKLE**
[SLAM] > **SLAM** > **VIDEO ON**
RDDI - **STORES** > CHECK **TTS** COUNTDOWN
SCS - **LEFT** > **LDDI** - **SOI** **◇**
VERIFY **CH#** MATCHES **STA#** OF SELECTED **SLAM**
(OPTN) **A ANT** (AFT ANTENNA IF HDG AWAY FROM TGT)
AT TTS = 0 CONFIRM **SEEKER VIDEO ON**
NOTE: DO NOT SLEW **TDC** UNTIL **TGT** VISIBLE
(OPTN) **[FOV]** (ZOOM VIDEO FIELD OF VIEW)
AT **TERMINAL STAGE** **SEEKER** LOCKS TO **TGT**
REFINE **TDC CROSSHAIRS** FOR IMPROVED ACCURACY

HARM SP MODE

A/G - **ON** > MASTER ARM - **ON**
LDDI > **STORES** > **[HARM]** **RDY** > **[SP]**
Cycle **HARM TGT SEQ/RAID/FLIR** > **[EMITTER]** > **PICKLE**

HARM SP PULLBACK (PLBK) SUB-MODE

A/G - **ON** > MASTER ARM - **ON**
LDDI > **[TAC]** > **HARM** > **HRM OVRD** (Disabled)
If **[HRM OVRD]**, then **HARM** Override is enabled.
Once **HARM** shows in **HUD** then, **PICKLE**
If **PLBK** shows in **HUD** then, **PULLBACK MODE** inhibited
If **HARM** shows in **HUD** then, check **MASTER ARM** - **ON**

TACTICAL AIR LAUNCHED DECOY (TALD)

A/G - **ON** > MASTER ARM - **ON**
LDDI > **STORES** > **[82P]** **RDY** > **PICKLE**
(**NOTE:** Altitude and Airspeed affects **TALD** range.)

HARM TOO MODE

A/G - ON > MASTER ARM - ON

RDDI > EW > [HUD] > [ALE-47] MAN 1

(Press **MODE** to change **ALE-47** modes.)

LDDI > [TAC] > [HARM] > [TOO]

SCS - LEFT > LDDI - SOI ◊

Cycle HARM TGT SEQ/RAID/FLIR >[EMITTER] (Steer to TGT)

CAGE/UNCAGE > H-OFF [HARM] RDY

[SCAN] (DETECTS THREATS)

CYCLE TGTS AS REQ'D > **PICKLE**

HARM PRE-BRIEFED (PB) MODE

A/G - ON > MASTER ARM - ON

LDDI > [TAC] > [HARM] > **STEP** (To Cycle WPN)>

[PB] > Pick Mode

[A/C] Aircraft Pull-up or [HRM] HARM Pull-up

LOCATE 3-DIGIT ALIC TGT ID CODE #

LDDI > **UFC** > :TGT (**UFC**) > **XXX** > ENT (**UFC**)

VERIFY TGT **XXX** (ALIC ID #) DISPLAYED ON LDDI

MPCD > **HSI** > [WPDSG] of **WYPT #** of IP

RDDI > EW > [HUD] > [ALE-47] MAN 1

(Press **MODE** to change **ALE-47** modes.)

ALR-67 > Press **OFFSET** > ECM > XMT

MPCD > **HSI** > [WPDSG] of **WYPT #** of TGT

FOR [A/C] AIRCRAFT LOFT SUB-MODE

VERIFY **A/C RNG** CUE DISPLAYED ON HUD

ALIGN **VV** (VEL VEC) WITH **ASL** (AZ STEER LN) ON HUD

PICKLE and **HOLD** UNTIL HARM LAUNCH

ALIGN **VV** (VEL VEC) WITH **ACFT PULL-UP LINE** ON HUD

HARM WILL AUTO LAUNCH AT INTERSECT OF **VV** and **APL**

RELEASE **PICKLE** BTN AND MONITOR HARM **FLT** TIME LDDI

CONFIRM HARM IMPACT ON **EW** PAGE RDDI

FOR [HRM] HARM LOFT SUB-MODE

VERIFY **HRM RNG** CUE DISPLAYED ON HUD

ALIGN **VV** (VEL VEC) WITH **ASL** (AZ STEER LN) ON HUD

THROTTLES TO MAX PWR TO EXTEND HARM RNG

ALIGN **VV** (VEL VEC) WITH **HARM CHEVRONS LINE** ON HUD

PICKLE and VERIFY HARM LAUNCH

CALL MAGNUM AND MONITOR HARM **FLT** TIME LDDI

CONFIRM HARM IMPACT ON **EW** PAGE RDDI

AIRCRAFT LAUNCH INTERFACE COMPUTER


(ALIC) TARGET ID CODE NUMBERS

AGM-88 HARM (ALIC) CODES GROUND

ID	TYPE	PLATFORM	CLASS	RWR
101	EWR	1L13	FS/HS	S
102	EWR	55G6	FS/HS	S
103	SR	SA-10 "GRUMBLE"	F2/H2	CS
104	SR	SA-20 "GARGOYLE"	F2/H2	BB
107	TAR	SA-11 "GADFLY"	F2/H2	SD
108	STR	SA-6 "GAINFUL"	F1/H1	6
109	MRCC	SA-8 "GECKO"	FS/HS	DE
110	FCR	S-300P / SA-10 "GRUMBLE"	F2/H2	10
115	TELAR	Buk / SA-11 "GADFLY"	F2/H2	11
117	TELAR	9K33 Osa / SA-8 "GECKO"	F1/H1	8
118	TELAR	9K35 Strela-10M3 / SA-13 "GOPHER"		13
119	TELAR	Tor / SA-15 "GAUNTLET"	F2/H2	15
120	TAR	Z56 Tunguska / SA-19 "GRISON"	F2/H2	S6
121	STR	ZSU-23-4 Shilka	FAA/HAA	A
122	SR	S-125 "Neva" / SA-3 "GOA"	FS/HS	3
122	EWR	S-200 Angara / SA-5 "GAMMON"	FS/HS	5
123	TR	S-125 "Neva" / SA-3 "GOA"	F1/H1	3
124	TR	Rapier FSA		RP
125	STR	Rapier FSA		RT
126	TR	S-75 Dvina / SA-2 "GUIDELINE"		2
127	TELAR	HQ-7 (Hong Qi-7)		7
128	SR	HQ-7 (Hong Qi-7)		HQ
129	GIR	S-200 Angara / SA-5 "GAMMON"		5
130	SR	S-200 Angara / SA-5 "GAMMON"		5
201	TR	Roland	F1/H1	RO
202	STR	MIM-104 Patriot	F2/H2	PT
203	SR	MIM-23 Hawk	F1/H1	S
204	TR	MIM-23 Hawk	F1/H1	HK
205	SR	Roland		S/GR
206	CWAR	MIM-23 Hawk		HK
207	STR	Flakpanzer Gepard	FAA/HAA	A
208	RR	M163 Vulcan ADS	FAA/HAA	A
209	FCR	NASAMS		NS

Boxed threat **[6]** with line over it has you locked up.

After **SCAN** dot > or dot < shows threat direction

AIRCRAFT LAUNCH INTERFACE COMPUTER (ALIC) TARGET ID CODE NUMBERS					ALIC RADAR TYPE LEGEND		
(ALIC) CODES AGM-88 HARM NAVAL					DCS HARM CHART		
ID	TYPE	PLATFORM	CLASS	RWR	RANGE NM LAUNCH LIMITS		
301		Kuznetsov CV	FS/HS	SW	RANGE	ANGELS	KIAS
303		Moskva CG		T2	70	40	380
306		Grisha FL		HP	50	30	400
309		Rezky FF		TP	35	20	400
312		Molniya FSG		PS	25	10	400
313		Piotr Velikiy CGN		HN	15	5	550
315		Ticonderoga CG		AE			
319		Neutrashimy FFG	FS/HS	TP			
320		Kuznetsov CV (2017)	FS/HS	SW			
401		Oliver Perry FFG-7		49			
402		Vinson CVN-70		SS			
403		Roosevelt CVN-71		SS			
404		Lincoln CVN-72		SS			
405		Washington CVN-73		SS			
406		Stennis CVN-74		SS			
407		Tarawa LHA-1		SS			
408		Type 071 LPD "YUZHAO"		PS			
409		Type 052B Guangzhou DD "LUYANG I"		MR			
410		Type 052C DD "LUYANG II"		HN			
411		Type 054A FFG "JIANGKAI II"		MR			
412		Arleigh Burke DDG		AE			
413		Truman CVN-75		SS			
RESERVED					RESERVED		

MARIANAS

ICAO	VHF	UHF	TCN	ILS	CRS
PGUA	126.2	250.1	54X	109.3	066L
PGUM	118.1	340.2	119X	110.3	065L
PGRO	123.6	250	-	-	92
PGSN	125.7	256.9	-	-	68
PGWT	123.6	250.05	-	-	80

CAUCASUS

ICAO	VHF	UHF	TCN	ILS	CRS
UGSB	131	-	16X	110.3	119
UGTB	138	-	-	108.9	301
UGSX	133	-	67X	111.5	64
UGKO	134	-	44X	109.75	68
UGKS	132	-	119X	123.45	66

NEVADA

ICAO	VHF	UHF	TCN	ILS	CRS
KXTA	118	250.05	18X	109.3	336R
KLSV	132.55	327	12X	109.1	220L
KTNX	124.75	257.95	77X	111.7	337
KLAS	119.9	257.8	116X	111.75	269L
KINS	118.3	360.6	87X	108.7	92
KIFP	123.9	250	-	-	345
KVGT	125.7	360.75	-	110.7	133L

SOUTH ATLANTIC

ICAO	VHF	UHF	TCN	ILS	CRS
EGYP	118.5	-	59X	111.9	282
SAWC	119.95	250.20	-	108.9	242
SAWE	118.3	250.70	31X	109.5	256
SAWG	119.3	250.65	-	110.3	246
SAWH	118.1	250.75	-	111.3	246
SCCI	118.7	250.85	-	109.9	246

KOLA

ICAO	VHF	UHF	TCN	ILS	CRS
FRO	118.7	250.25	124X	111.7	213
ENBO	118.3	250.45	45X	110.3	084
ENNA	118.05	250.20	47X	108.3	352
ESNQ	130.15	250.35	99X	110.3	214
ULMM	127.3	250.15	-	110.3	135

ICAO	VHF	UHF	TCN	ILS	CRS
LTAF	121.1	251	-	108.7	56
LTAG	122.1	360.1	21X	111.7	235
LTDA	128.5	250.25	-	108.15	224
OLBA	118.9	252.25	-	110.77	35
LLRD	127.8	251.05	84X	111.1	326
LTAJ	120.1	250.25	-	109.1	286
LLIB	118.45	251.25	ROP VOR*	115.3*	230
LCRA	128	251.7	107X	109.7	291
LCRE	121	251.75	-	-	236
LLHA	127.8	250.15	-	-	156
LTFG	119.25	251.65	-	108.5	86

PERSIAN GULF

ICAO	VHF	UHF	TCN	ILS	CRS
OJMF	118.3	250.4	-	-	127
OMAM	126.8	250.9	96X	109.1	128
OMAD	119.9	250.55	119X	-	130
OMLW	119.3	250.85	121X	-	130
OOKB	124.35	250	-	110.3	194
OMSJ	119.3	250.85	70X	108.55	123L
OMDM	118.55	250.1	99X	110.7	90
OMFJ	124.6	251.05	85X	111.5	293
OMRK	121.6	250.8	83X	-	160
OMDW	118.65	251	-	111.75	122
OMAL	119.85	250.65	119X	-	10
OMQS	126.1	303	29X	-	270

SINAI

ICAO	VHF	UHF	TCN	ILS	CRS
HECW	118.4	250.45	114X	-	347R
LLRM	119.2	251.5	105X	110.7	246R
LLHB	119.15	251.4	96X	111.3	284L
LLNV	132.4	251.45	-	111.5	256L
LLHS	118.6	250.6	-	108.5	054
LLEK	118.75	250.75	87X	109.1	001

