

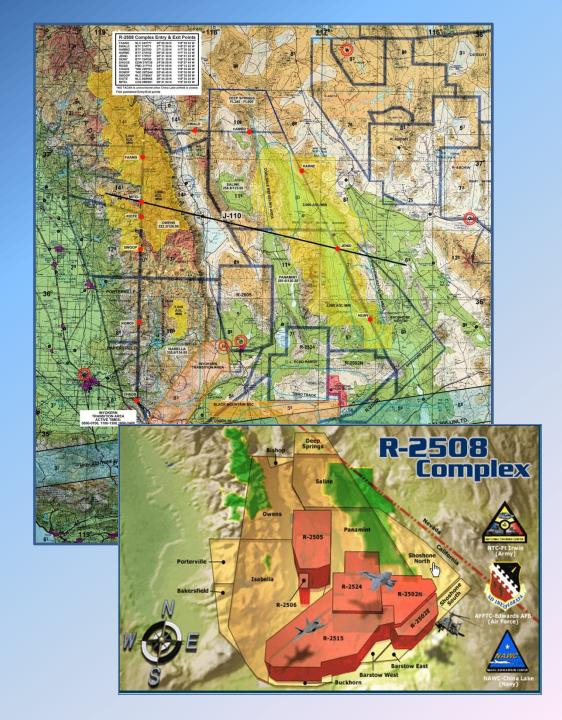
5 May 2015

WELCOME!

What We Hope to Accomplish:

- Inform Users of Updates & Changes
- Review R-2508 Concept of Operations
- Highlight Areas of Concern Mission Profiles – "What to Expect"
- Scheduling and Usage Procedures
- Address Your Concerns...





R-2508 Joint Policy & Planning Board





Rear Admiral Michael T. Moran



Brigadier General Carl E. Schaefer



Major General
Theodore D. Martin







Briefing Requirement

"All JPPB sponsored units operating within the R-2508 Complex shall receive an annual face-to-face refresher training brief on Complex Operations and Procedures from the CCF or their sponsoring JPPB Commander (e.g. Navy/Marine Corps units are sponsored by the Commander, NAWCWD).

This brief shall address scheduling procedures; safety concerns and will stress overflight sensitivities."



Concept of Operations

When the SUA is Activated

- VFR
- See and Avoid
- Non-Exclusive Use
 - Transponder Mode C
 - Accept Advisory Service
 - Active vs. Inactive Monitoring











IFR Procedures

Not Authorized when SUA is Active

What to do if you encounter an IMC Condition...

- Advise Joshua Approach
- Expect IFR Clearance
 - On Top or Vectors to VMC
 - IFR Separation applied between IFR Aircraft only











R-2508 Annual Users Briefing







- Joshua Control Facility, "Joshua Approach"
 - -Traffic & boundary advisories, mission support
 - VFR and IFR Services as applicable within MOAs, ATCAAs, R-2508, and Released Internal Restricted Areas
- China Control & SPORT MRU's
 - -Traffic & boundary calls and mission support services for China Lake (R-2505, R2506 & R-2524)
 - Edwards (R-2515 Barstow & Buckhorn MOA/ATCAA)
- Desert Radio, Airspace Information Center
 -Mission support in R-2502N, R-2502E & R-2502A









Check in Procedures & Situational Awareness



- Receive Clearance: Contact Joshua Approach prior to Complex entry and exit. Initial contact shall include a request for a Complex Clearance and Altitudes.
- Provide SA to ATC: During check-in, pilots should state their intentions and planned work area using plain language.
- <u>Receive SA from ATC</u>: Joshua Approach should respond with Work Area Clearance, relevant Traffic Information, and, workload permitting, work area saturation information.
- <u>ATC traffic calls</u> are based on observed aircraft positions, headings, altitudes and radar limitations. Rapid changes in heading or altitude may not be observed by ATC in time for the information to be issued in a timely manner. Aircrews are encouraged to Alert ATC when conducting rapid heading and/or altitude changes.





Restricted Areas:

Schedule R-2508 with CCF

• Schedule Internal Restricted Areas with Using Agency and CCF To Transit MOA/ATCAA Airspace

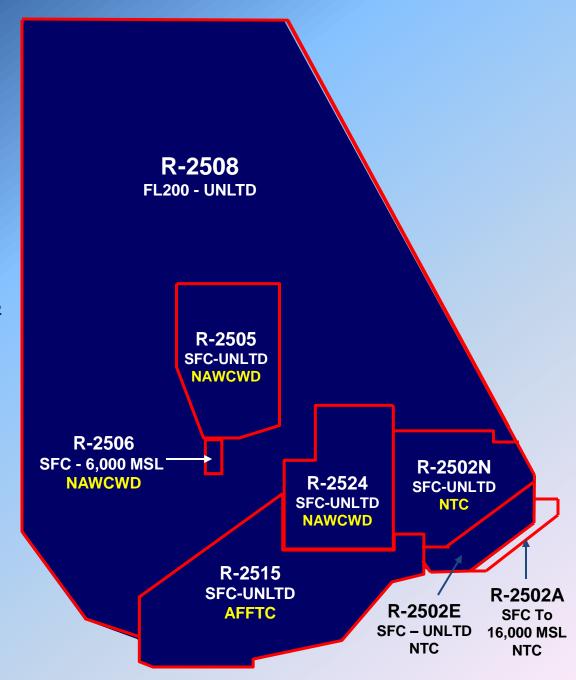
Using Agencies:

R-2505, R-2506, R-2524: NAWCWD

R-2515: 412TW

R-2502N, R2502E, R-2502A: NTC







MOA & ATCAA Airspace

Military Operations Areas & Air Traffic Control Assigned Airspace

JOSHUA APPROACH

Frequencies:

Joshua Primary ATC: 348.7/133.65

Isabella: 335.6/134.05

Owens: 322.3/126.55

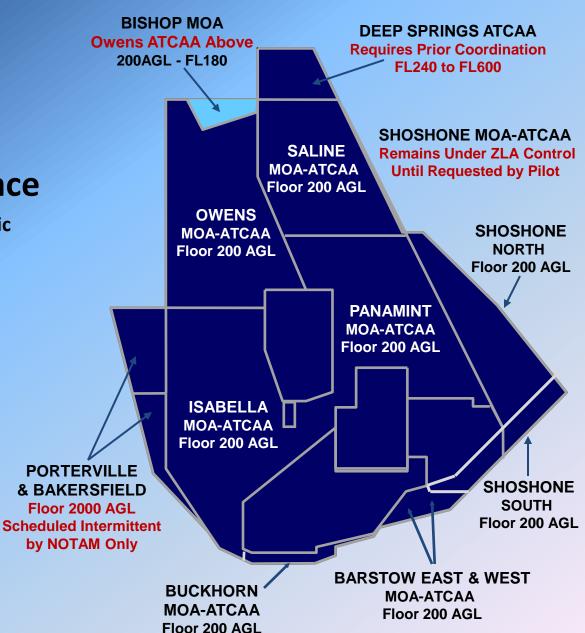
Saline: 256.8 123.95

Panamint: 291.6/120.25









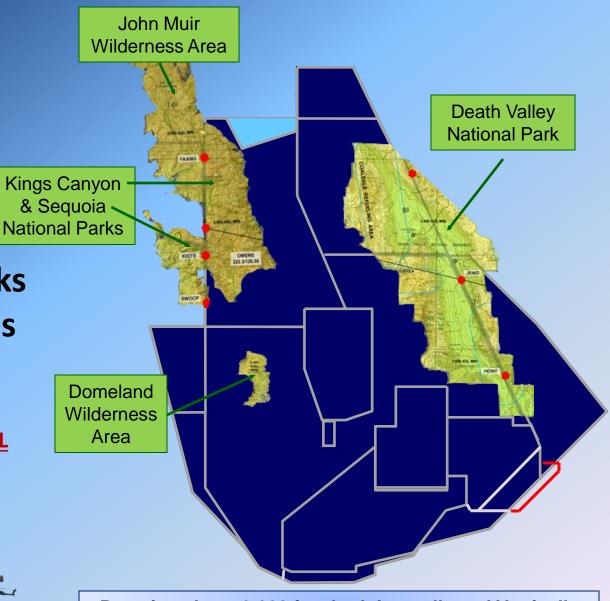


Overflight Restrictions of Parks & Wilderness Areas

Floor of MOA over National Parks and Wilderness Areas Published Altitude: 3,000 AGL

- FLIP AP1 California
- FAA JO 7400.8





Remain at least 3,000 feet both Laterally and Vertically from National Parks and Wilderness Areas...
3,000 feet from Canyon Walls and Saddles







- Sequoia and Kings Canyon National Parks (SEKI)
 - All participating aircrews maintain an altitude of 18,000 feet or above over SEKI <u>unless specifically scheduled lower</u> through CCF.
 - Annotate "SEKI" in Remarks Section of R-2508 Complex Airspace request Form.
 - Unscheduled operations below FL180 over SEKI are authorized only for safety of flight considerations.
 - At no time will any participating aircraft descend below 3,000 feet AGL within the boundaries of SEKI except in an emergency situation. Lateral separation from SEKI is 3000 feet.

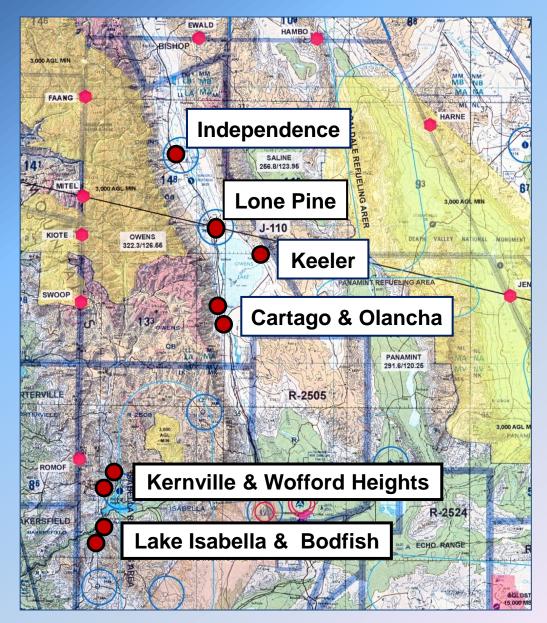


Noise Sensitive Areas

All Communities within

the R-2508 Complex are considered "noise sensitive areas". Noise sensitive areas must be avoided by 3000' AGL. The only exception to the 3000' restriction is while operating on an approved test plan.







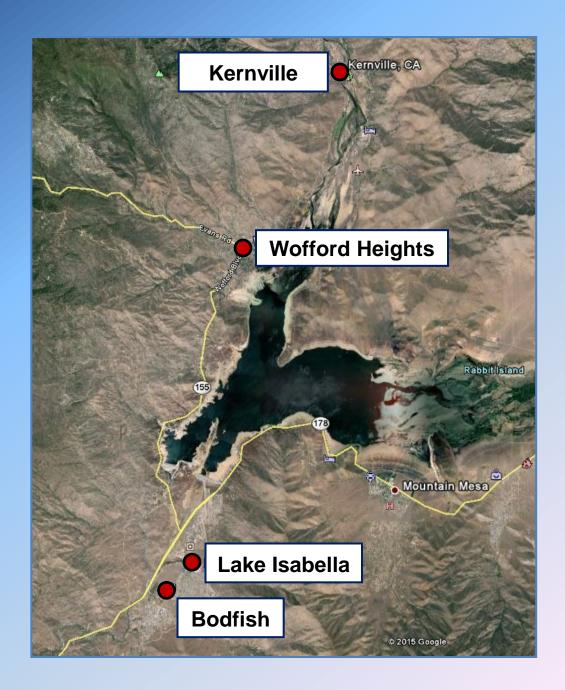
Noise & Low Level Complaints

Areas of Highest Concern:

- Kernville
- Wofford Heights
- Lake Isabella
- Bodfish

Source of most Sidewinder LL Noise Complains





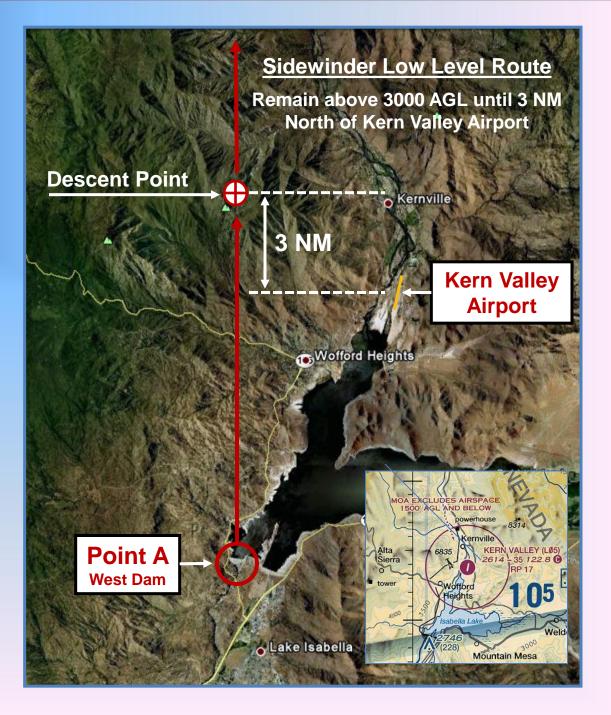


Noise & Low Level Complaints

Sidewinder Low Level
Point Alpha to Descent Point

Remain above 3000 AGL until 3 NM North of Kern Valley Airport to avoid Lake Isabella and surrounding Communities







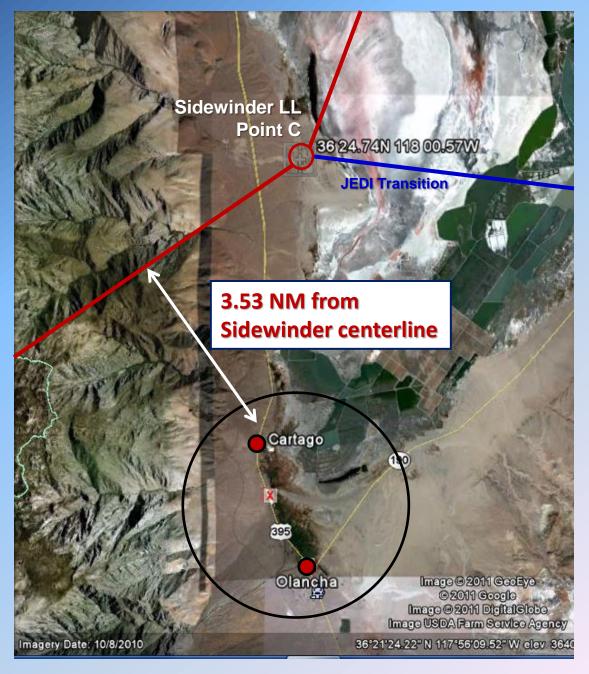
Noise & Low Level Complaints

Areas of Highest Concern:

- Cartago
- Olancha

Source of most Owens Lake area noise complaints 3.53 NM from Sidewinder LL centerline







Noise & Low Level Complaints

Other Owens Valley areas of Concern...

- Lone Pine
- Keeler







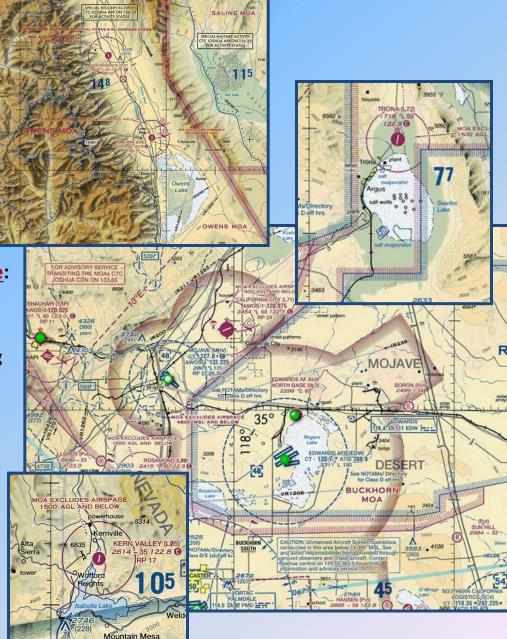
Overflight Restrictions

- Published Civil Airports:
- 1,500'AGL or 3 NM
- Mojave Air & Space Port Class D Airspace:
- 4,800' MSL and below
- National Test Pilot's School
- Aircraft & Space Systems development, testing & modifications
- Airborne Tow operations
- **Community Overflights**: 3,000' AGL unless operating on an approved test plan
- Temporary Flight Restrictions (TFRs)
 - Land Management Activity
 - Fire-fighting Support Aircraft











TFR Incursions

SMOKE FROM FIRES
STAY AWAY!
Check NOTAMS Prior
to Step
Check R-2508 Daily
Brief Sheet



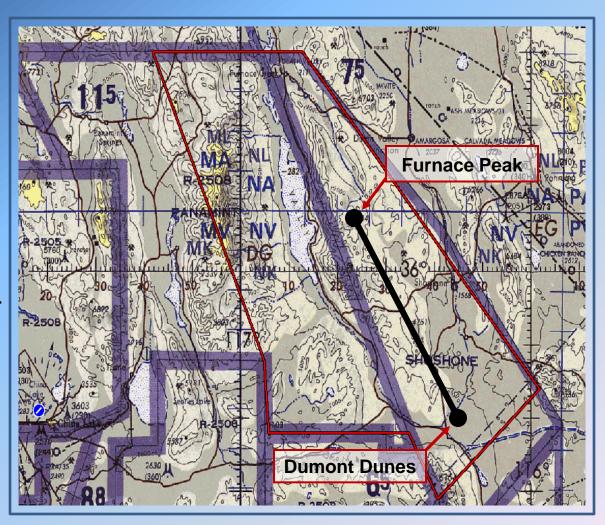




Skull Corner...

- Used by the 412TW for ACBT
- Eastern half of Panamint MOA and ATCAA, Shoshone MOA and Shoshone North ATCAA from 200' AGL to FL 500
- Only one 412TW user scheduled for Skull Corner at any one time.
- Shoshone airspace released to ZLA until the ACBT flight is airborne and requests activation.
- Skull Corner Cap Points are -Furnace: 36°11'27"N 116°39'51"W, Dunes: 35°40'.59"N 116°13' 10"W

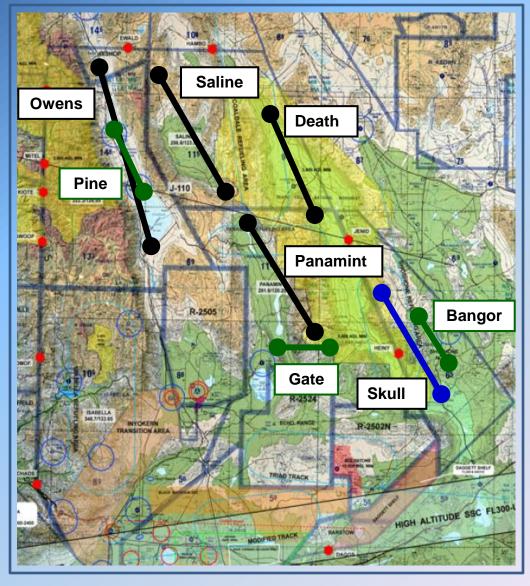






Caps Points

- Used for staging and mission deconfliction.
- Aircraft transiting across working areas shall avoid aircraft actively conducting test or training whenever possible.
- NAS Lemoore SFWP
 - Owens, Saline, Death, Panamint
- LSV Green Flag West
 - Pine, Gate, Bangor
- 412 Test Wing
 - Skull





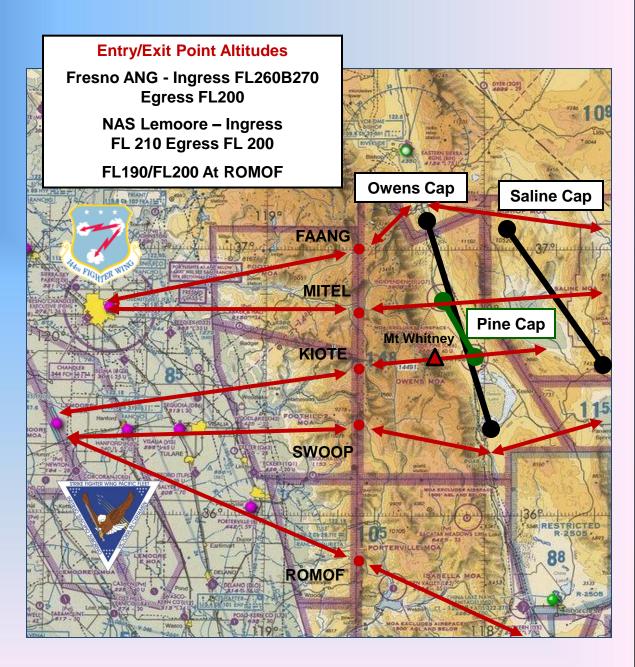


NAS Lemoore/Fresno ANG

Ingress/Egress Routes

- NAS Lemoore
 - Entry/Exit via KIOTE & SWOOP
 - Entry/Exit via ROMOF for Superior Valley at FL190/200 to avoid Isabella AR (ARISB)
- Fresno ANG
 - Entry/Exit via FAANG & MITEL
 - Use FAANG to avoid Cap Points when active
- Other Uses
 - Be aware of heavy East/West traffic flow across Owen Valley
 - Avoid Mt Whitney area

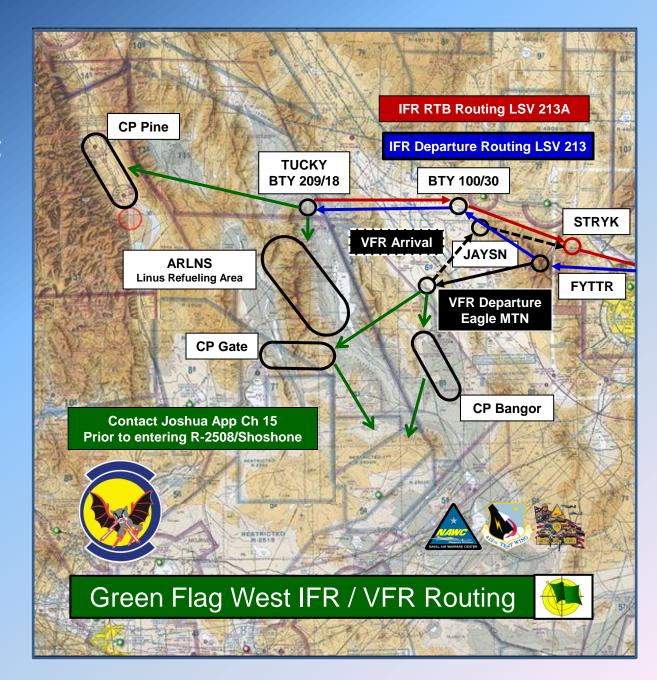






Green Flag West

- IFR Departure Routing... via FYTTR..BTY 100/30..TUCKY
- IFR RTB Routing... via TUCKY..BTY 100/30...STRYK
- LSV VFR Departure Routing FYTTR..Eagle Mountain
- LSV VFR RTB Routing Eagle Mountain...JAYSN...STRYK
- Refueling Area LINUS (ARLNS) 22K'
- Lone Pine CAS Orbit Hold at 21K' then operate 20K' to 200 AGL in Owens MOA/ATCAA





Special Activity Areas...Weather Areas

Area 1: Eastern Half of R-2515 Divided by Highway 395

Western Half of R-2515 Divided by Highway 395

Area 3: Isabella MOA/ATCAA West of the PMD 330° Radial

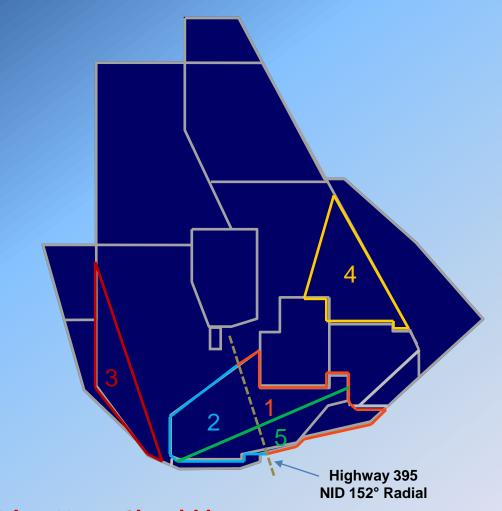
Area 4: Panamint MOA/ATCAA East of the BTY 182° Radial

Area 5: R-2515 South of the FIM 049°
Radial & Barstow MOA/ATCAA









What Users Should know...

- WX Areas exist in the Southern Portion of the Complex
- WX Areas are Released to ZLA for Air Carrier WX Avoidance
- Joshua/SPORT will keep users updated on areas activated
- If you're unfamiliar with WX Area locations advise Joshua or SPORT and request assistance in WX Area avoidance.



Special Activity Areas

- CR Briggs Mine "Blasting"
 35° 56' 17"N/117° 11' 09"W
- Flying Rock to Unknown Altitudes
- Blasting Times Unless
 otherwise coordinated, 1000 1230L and 1600-1730L Daily
- Avoid when flying low level in southern Panamint Valley





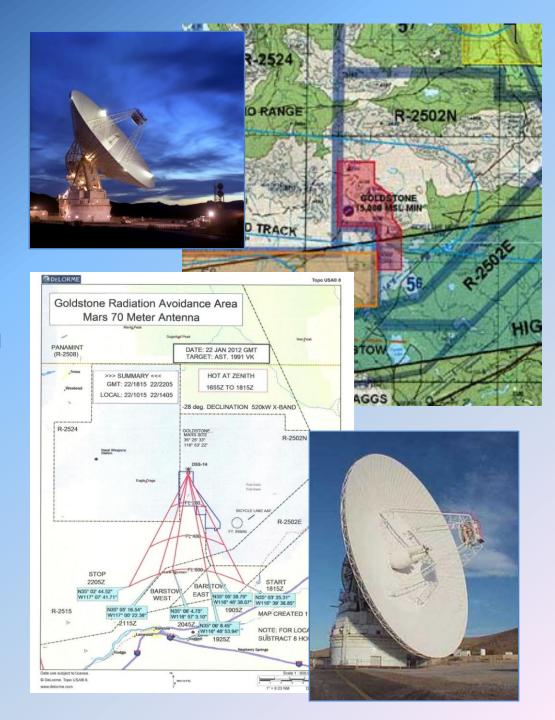


Special Activity Areas

NASA Goldstone Facility

- Overflight Restriction
 - 15,000 MSL or Higher as Scheduled
 - Goldstone provides ATC/MRU with radiation map to identify affected area, altitudes, and times when 70 meter dish is radiating
- Joshua, SPORT, China Control and Desert Radio will advise Users of Affected Areas





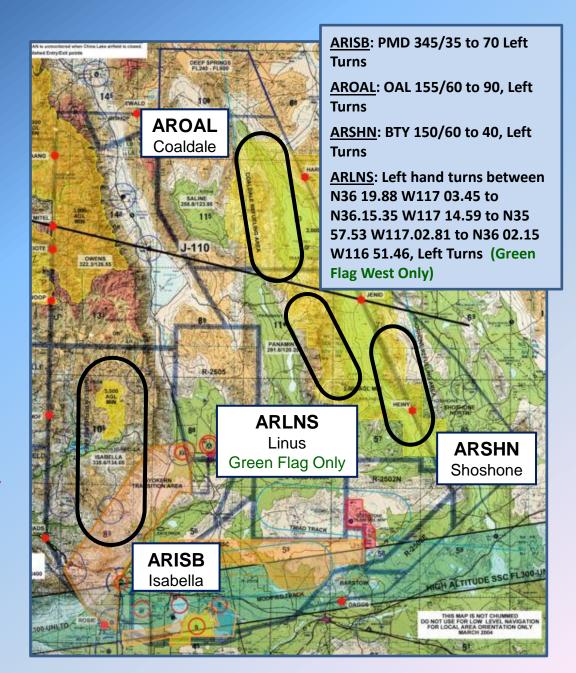


Special Activity Areas

Air-Refueling Operations:

- Refueling areas are NOT
 exclusive-use airspace and are NOT
 PROTECTED from other Complex
 aircraft operating in the area.
- Avoid observed tanking operations by a minimum of 2,000 feet vertically and 5 miles laterally.







Special Activity Areas

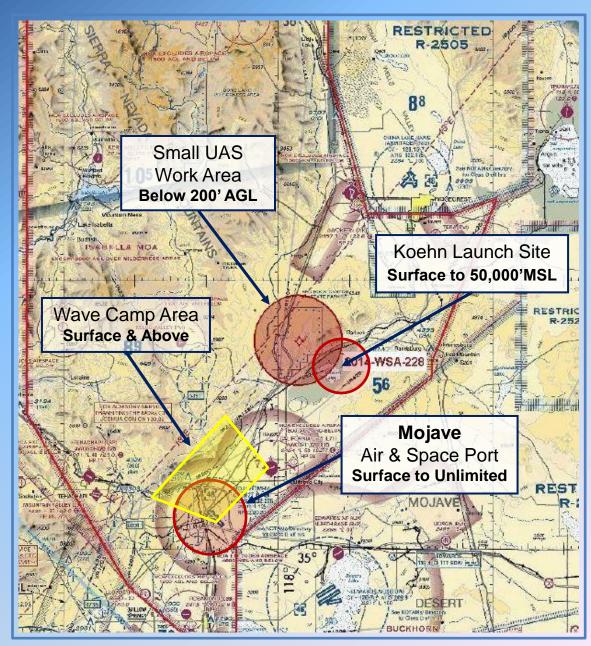
- Small UAS Work Area
 - Surface up to but not including 200' AGL
 - Underlies IR211 and VR1262
- Koehn Dry Lake: Launch Site
 - Launch Altitudes to 50,000' MSL
 - Safety observers provided
- Wave Camp Area: Concentrated
 Glider Activity All altitudes
 - Transponder Equipped above FL180

Mojave Air & Space Port:

Experimental aircraft & rocket research, development, Test & Evaluation activity, and Aircraft refitting

Class D: Surface to 4,800 MSL



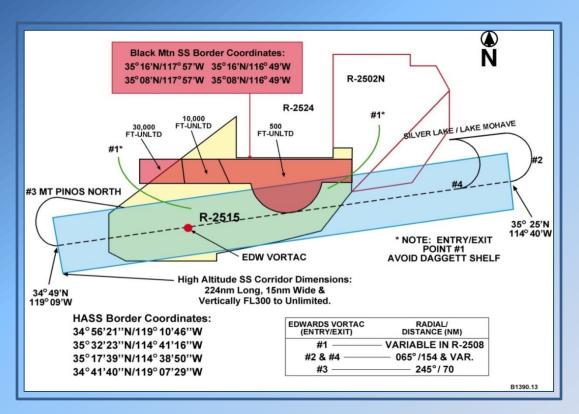




Special Activity Areas

- Supersonic Areas
- Black Mountain Supersonic
 - Tiered Bottom
 - SPORT must be open
- High Altitude Supersonic
 - At or Above FL300
 - Entry/Exit 1 within R-2515
 - Avoid Daggett Shelf
 - Other Entry/Exit Point usage Requires Prior Coordination with SPORT and Center





Supersonic operations

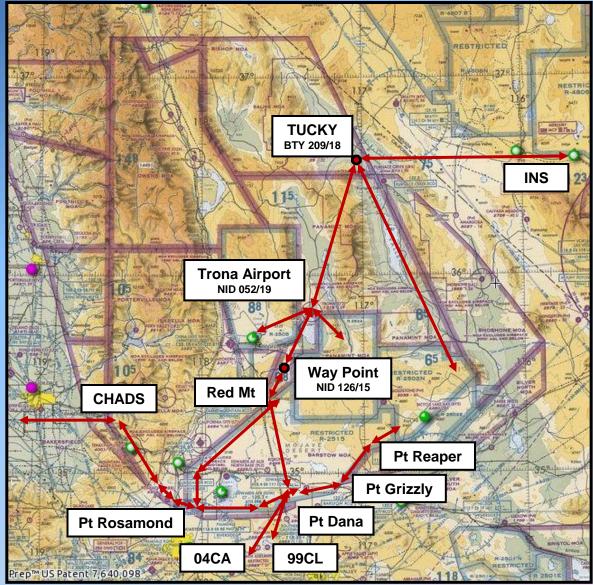
- Only in authorized supersonic areas
- Refer to R-2515 in-flight procedures (412TW 13-100)
 regarding use of High Altitude and Black Mountain areas,
 additional information available through the Edwards
 Airspace Management Office DSN 527-2515 or 277-2515
- Schedule Supersonic Operations with 412TW Center Scheduling. Same Day: DSN 527-3940 next day or beyond DSN 527-4110. Include in Remarks Section of CCF Airspace Request Form.



UAS/RPA Transition Routes

- INS..TUCKY..R2502
- INS..TUCKY..Trona Airport
 - From Trona: Transition to R2505, R2524, Red Mountain, R-2515, 99CL, or 04CA
- Southern Transition Route
 - Point Grizzly, Point Dana,
 Point Rosamond, CHADS
- All Transitions flown at FL190 or FL200 Correct Altitude for Direction of Flight







Chaff & Flares

Chaff/ECM

- Requires specific frequency management approvals (usually via unit)
- Notify CCF of Chaff/ECM activity when scheduling airspace (remarks section)
- Additional (internal) range rules may apply

Flares

 Internal restricted areas <u>ONLY</u> & requires specific Using Agency approval











Low Level Procedures

For sustained flight below 1,500' AGL

- Requires notification/check-in with JOSHUA Approach
- Operating frequency 315.9 MHz, NOT Monitored by ATC/MRU
 - Use as Unicom for <u>blind transmissions</u>, <u>pilot to pilot only</u>
- State Call sign, type aircraft, location and intentions
- Provides cross frequency communication capability with Land Management Agencies

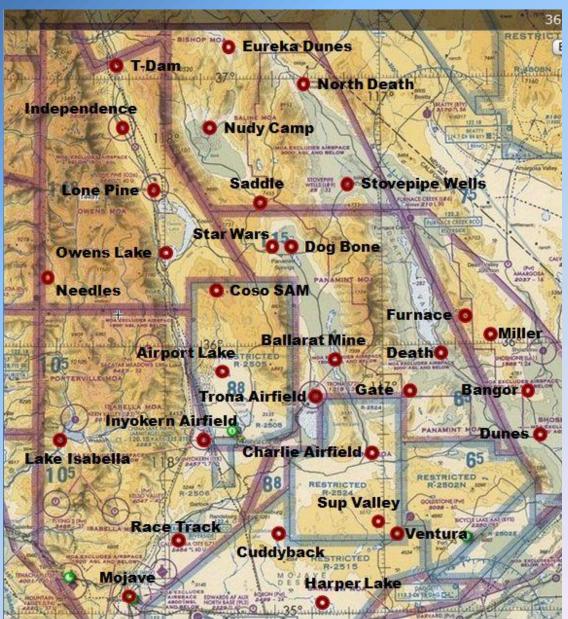




GEO Reference Points

- Easily identifiable ground reference points used to describe aircraft position during low level flight operations on frequency 315.9
- Detailed list of these locations, names and latitude/longitude position listed in R2508 Users Handbook paragraph 5.2.1





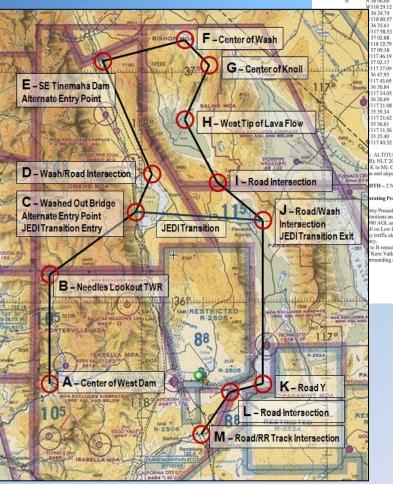


Sidewinder

Low Level with JEDI transition

- All points must be flown in a clockwise direction, sequentially i.e. A, B, C... M, or C, D, E... O, etc. Opposite Direction Flight Prohibited
- Preferred alternate entry via points C or E
- JEDI Transition: Proceed East from Point C to Point J
- Annotate "Sidewinder" in remarks section of R-2508 Airspace Request Form.





SIDEWINDER LOW LEVEL (Rev 2) 11 Feb 2015

<u>CAUTION:</u> These are R-2508 procedural controls for local use only. Points will be flown sequentially (i.e. A, B, C...M or C, J, K...M, etc). OPPOSITE DIRECTION IS PROHIBITED.

The SIDEWINDER and JEDI Transition are not published MTRs.

ROUTE DESCRIPTION: PT Lat/Long Pt Description/Elevation A N 35 38.75 Ctr of West Dam/2575

W118 28.94 N 36 06.60 Needles Lookout Twr/8107

Washed Out Bridge/3615

Wash/Road Int/3635

SE Tinemaha Dam/3894 Center of Wash/2956

Center of Knoll/4738

Center of Kholi/4/38

West Tip Lava Flow/1352

Road Int/6109

Road/Wash Int/2093

Road Y/1624

Road Int/2480 Road/RR Int/2785

ALTITUDE: NLT 200' AGL to 3000' AGL

(s); NLT 200' AGL (points B to K); NLT 500' K to M). Climb as required to avoid noise s and airports (note 8).

OTH - 2 NM either side of centerline.

rating Procedures:

ntry Procedure: Prior to entry notify Joshua of tentions and planned Entry/Exit point. Above 000 AGL and prior to route entry make intentions dl on Low Level Common (315.9). Give way to 100 try.

to B remain above 3000 AGL until 3 NM North Kern Valley Airport to avoid Lake Isabella and rounding communities.

- Alternate Entry: This is a procedural control and traffic may enter at any point. Preferred alternate entry points are C and E.
- Alternate Exit: This is a procedural control and traffic may exit at any point. Preferred alternate exit points are H and K.
- All aircraft operating on the Sidewinder/Iedi Transition will utilize the R-2508 low altitude common frequency 315.9. When entering low level environment transmit in the blind call sign, number and type of aircraft, and intentions. Monitor 315.9 until existing low altitude regime. Repeat calls entering new areas, or crossing ridge lines.
- 6) Slower aircraft (i.e. C-12, T-34) may be on the route at the same time. Use caution for airspeed variations that may exist between aircraft. Aircraft being overtaken has the right of way.
- To mitigate the risk of opposite direction traffic, offset right of centerline when transiting saddles between valleys. Rising terrain may mask advisory calls.
- (8) Avoid all noise sensitive areas by 3000'AGL or 3000' laterally. Avoid all airports along route by 1500' AGL or 3 NM.
- Point B to C, avoid the extremely noise sensitive areas of Olancha and Cartago.
 Point C to D, avoid the extremely noise sensitive
- Point C to D, avoid the extremely noise sensitive
 areas of Keeler and Lone Pine. Caution: intensive
 hang glider activity in the vicinity of Dolomite and
 northeast shore of Owens lake.

 Caution; high migratory bird activity between F.
- and H during daylight hours.
- (2) CAUTION: Possible merging traffic from aircraft on Jedi Transition (approaching from west via Point C). Sidewinder users offset east of Point J for deconfliction. Sidewinder users make mandatory radio cell approaching Point J "Call sign. Sidewinder, approaching Point Julier". Make calls on 315:9
- Point J to K. 198' multi unlit towers N35°53.797
 W117°17.558. Avoid Trona Airport by 1500' AGL or 3 NM.
- Point K to M. Watch for traffic northbound to China Lake initial at 4000' MSL.
- Point L to M, route transits underneath instrument procedure at NID (are and final approach). Use caution if exiting route prior to point M. Conflicts: A to L: IR-236; B to D: VR-1255; E to I:
- Conflicts: A to L: IR-236; B to D: VR-1255; E to I: VR-1205-1255-1262; I to L: VR-1262, IR-200; K to M: IR-200-211.

JEDI TRANSITION: At Point C proceed east to Point J. CAUTION: Possible merging Sidewinder traffic from the north via Point. Ledi users offset west of Point for for deconfliction. Jedi users make mandatory radio call approaching Point J "Call sign, Jedi Transition, approaching Point Julier," Make calls on 315.9.

Route Map, Route
Description, and Standard
Operating Procedures
Published in
R-2508 User Handbook
and EAFBI 13-100



Lights Out &Targets of Opportunity

Lights-Out Operations

- May be conducted within <u>internal</u> restricted areas
- Within R-2508 IAW Unit/CCB LOP

Do Not Select Targets of Opportunity

 Highlighting test aircraft may result in a security violation or interruption of an expensive test







R-2508 Complex Daily Brief Sheet

- What's going on the next day
- Link 16 & SADL Status Advisories
- UAS Transitions
- Unusual/Special Operations
- Future Operations







R-2508 COMPLEX DAILY BRIEF SHEET

DOES NOT INCLUDE ACTIVITIES SCHEDULED WITHIN
INTERNAL RESTRICTED AREAS R-2508 Website http://www.edwards.af.mil/r-2508.asp

1-2-3 FEBRUARY 2014

Edwards US	LINK 16 and SADL STATUS 3 FEB 14	
Link 16: Operational SADL: Down	Edwards Allied Link 16: Operational	Rogers Peak US Link 16: Down
oils 413	After Hours Requests: DSN: 525-75 mil. Operating Hours: M-F 08001	To. Down

SCHEDULED REFUELING OPERATIONS

DATE/TIME (Z)		101	10
011745Z - 012000Z	AREA	ALTITUDES FL180 - FL210	UNIT

SPECIAL ACTIVITIES/OPERATIONS

AMATEUR ROCKET LAUNCHES

Multiple unmanned rocket launches on Saturday, February 1st. Launch operations are from 8:00 am to prompte unmanifed rocket addicates on saturday, reordary ise. Laddich operations are from sevents of 1600Z to 0100Z), to a maximum altitude of 30,000 feet MSL. The launch location is North-East of Koehn Dry Lake, Edwards VOR EDW 336° Radial 23 NM (EDW336023), Latitude 35° 21' 12" North, Longitude 117° 48' 25.80" West, and 3 nautical mile radius.

FUTURE OPERATIONS



** INDICATES CHANGES

For more detailed information concerning any of the above information, contact the R-2508 Central Coordinating Facility at DSN: 527-2508, COMM: (661) 277-2508.

For more detailed information concerning any of the above information, contact the For more detailed information concerning any of the above information, contact the R-2508 Central Coordinating Facility at DSN; 527-2508, COMM; (661) 277-2508.

R-2508 COMPLEX DAI

R-2508 Complex ALTITUDE

050300Z - 050445Z 110130Z - 110315Z

120130Z - 120315Z 130130Z - 130330Z

R-2508 Website http://www.ec

LARGE FORCE E

		RETURN	ALTITUDE	REAPER I
	ALTITUDE	040200Z-040230Z	FL190	GRIM I
CREECH TO 02N	FL200	040500Z-040530Z	FL190	REAPER 1
031730Z-031800Z	FL200	050200Z-050230Z	FL190	GRIM 1
031530Z-031600Z	FL200	050500Z-050530Z	110100	REAPER 1
041730Z-041800Z 041530Z-041600Z	FL200	060200Z-060230Z	FL190	GRIM 1
041530Z-041600Z 051730Z-051800Z	FL200	060500Z-060530Z	FL190	Gran.
0517302-0310000	FIX 200	0003004.40		

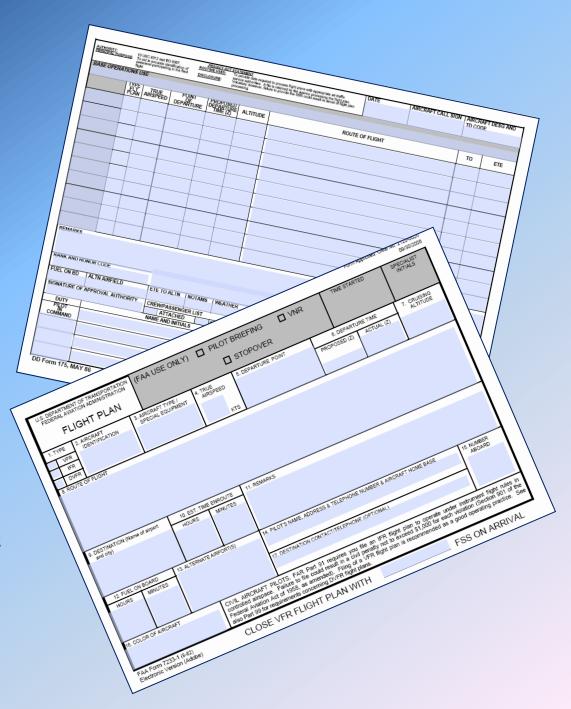
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IFR Flight Planning

- Flight Plans should be filed with 2 separate legs...
- Leg 1: Departure point, route of flight, R-2508 entry point, R-2508 as destination.
- Leg 2: R-2508, R-2508 exit point, flight route, destination airport/fix
- Do not file a delay in the Complex
- Filing a delay may result in the loss of the second half of your flight plan
- May result in extensive delay in receiving IFR Clearance out of area







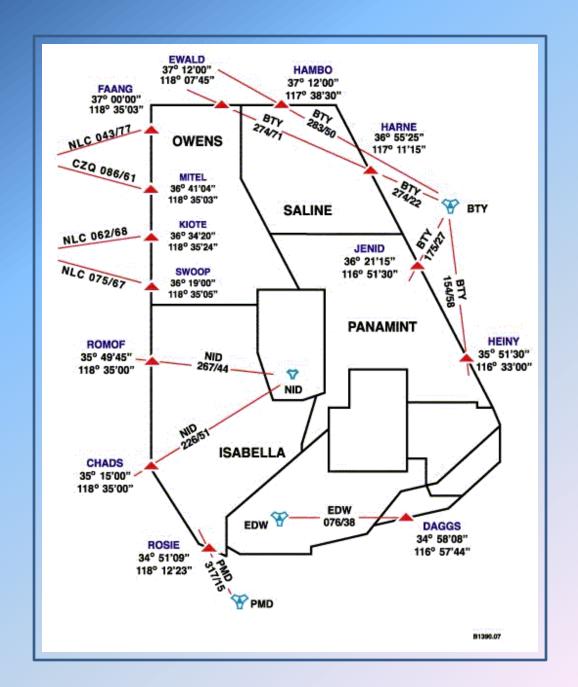
Entry/Exit Points

Flight Plan Entries...

 Use Complex entry/exit points during flight planning to alert Joshua/Center of your intentions.

*NID TACAN is unmonitored when China Lake airfield is closed.





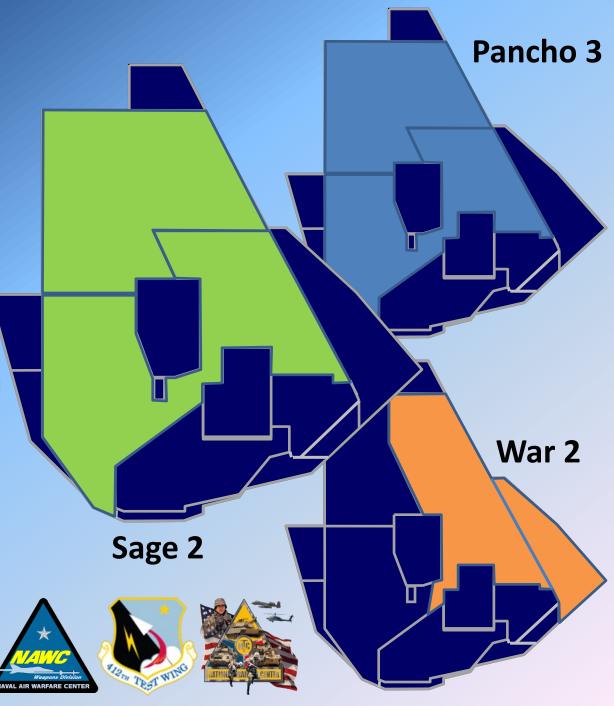


Complex Clearances

SAGE 2: Isabella, Owens, Saline, and Panamint, FL290 and below

PANCHO 3: Clearance to operate within Isabella and Panamint work areas at and below FL500, and Owens and Saline work areas at and below FL290... Only EDW, NID, and PMD based aircraft are authorized a PANCHO 3

WAR 2 Clearance: Clearance to operate in the Saline and Panamint Work Areas at and below FL290, Shoshone MOA, and Shoshone North and South ATCAA's at and belowFL230.





R-2508 Scheduling

CCF Office Hours - Monday thru Friday 0600-1800L, excluding holidays

- Schedule NLT 1600L Day Prior
- Schedule NLT 1600L Friday for Weekend Operations
- After hours schedule changes: Call CCF
 After Hours Number 1-866-805-2851







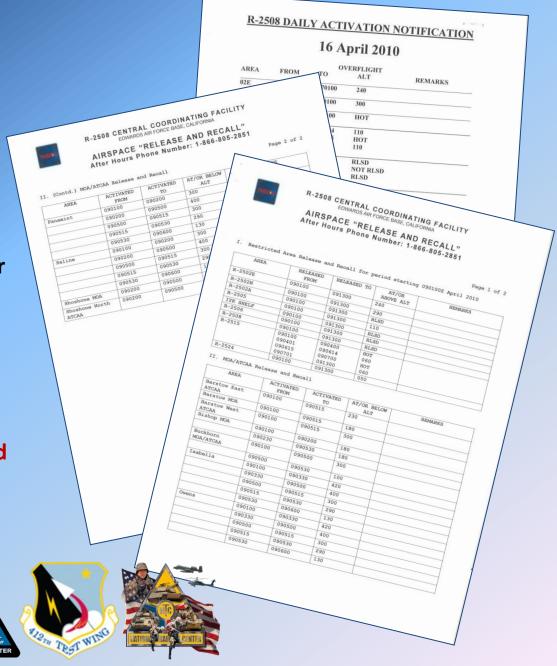
Scheduling

Why CCF Needs your Airspace Request Form NLT 1600L Day Prior (Friday for Weekends)

Airspace Activation, Release and Recall Information is sent to Los Angeles Center NLT 1700L

Off Station Users "Must be briefed & schedule R-2508 through CCF"

Late scheduling could result in Mission Loss or Delay



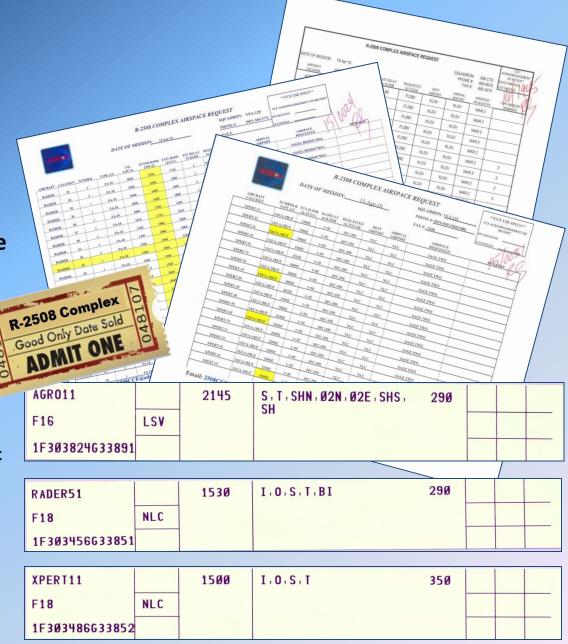


Scheduling

 Scheduling data used to Generate ATC Flight Plan Information and Flight Progress Strip for Joshua

- Flight Strip is **Your Ticket** for entry into the Complex
- Use R-2508 Complex Airspace Request Form and Submit via Email
- Units will receive return acknowledgement
- Changes to received schedules MUST be called in, emailed to CCF
- Include internal restricted areas as scheduled with Using Agency





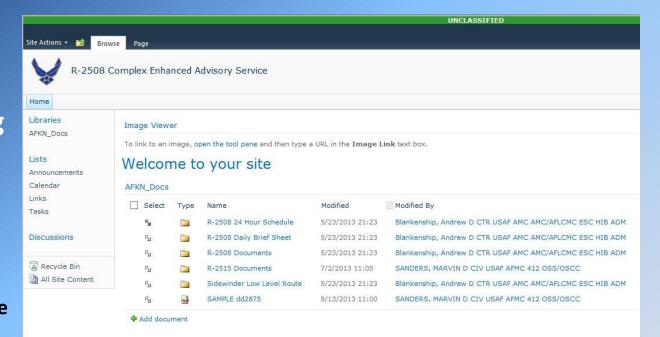


What's Available

Online...

- R-2508 Daily Flying Schedule posted online Monday Thru Friday at 0700L
- Includes Work Areas and Mission Profiles as provided on R-2508 Airspace Request Form
- Access requires .mil email address and CAC log on





AFNET EIS SharePoint Account for CCF Online Information - 24 Hour Schedule & Daily Brief Sheet:

https://cs3.eis.af.mil/sites/MC-OP-00-08/default.aspx

Non-USAF agencies must setup an AFNET EIS Sharepoint Account.

- Contact the 412th OSS IAO at DSN: 525-4269 or COMM: (661) 525-4269.
- Requirements: A current Information Awareness training certificate
- Complete DD Form 2875.

Privacy Notice | WFE005



What's Available

Online...

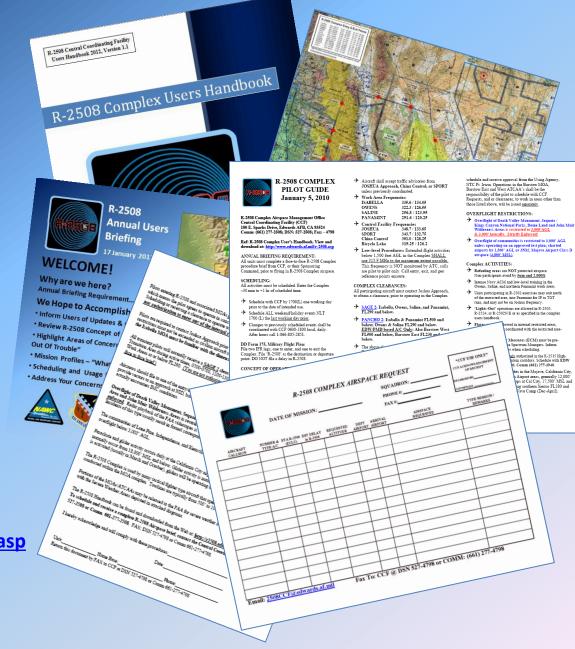
- Users Handbook
- This Briefing
- Airspace Request Form
- Situation Report (SITREP)
- Pilot Guide & Map
- NID Transient Pilot Brief
- Where?

http://www.edwards.af.mil/r-2508.asp









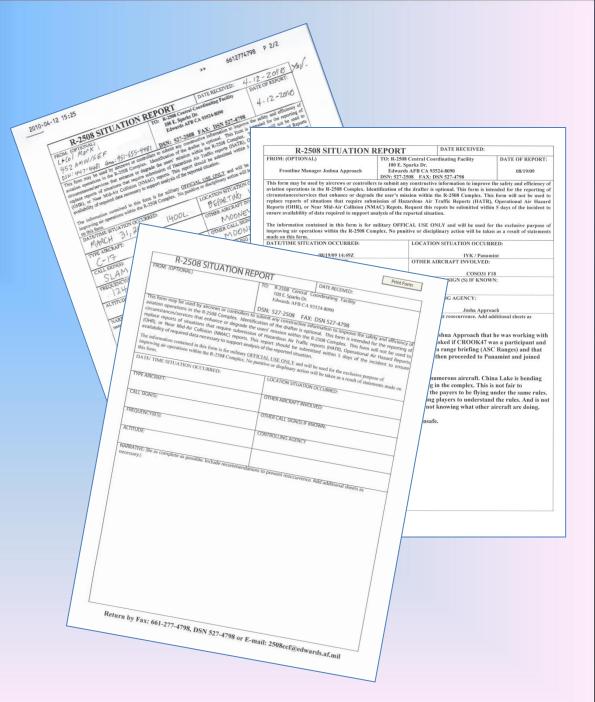


SITREP

(R-2508 Situation Report)

- Official Communication
- Official Response
- Don't wait too long...







R-2508 Central Coordinating Facility



Questions?

- Co-Located with Joshua Approach
- Here to Support your Operations
 - DSN 527-2508 or Commercial 661-277-2508
 - <u>2508ccf@us.af.mil</u>
 - Online Information
 - http://www.edwards.af.mil/r-2508.asp
 - https://cs3.eis.af.mil/sites/MC-OP-00-08

