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NAWCWD Point Mugu Personnel Impacts

Data Requested by BRAC Commission Staff

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NAVAIRWARCENWPNDIV_PT_MUGU Scenarios

- TECH2B (Folded into TECH18 by TJCSG) – Realign Point Mugu Weapons and Armament RDAT&E and relocate to China Lake
- TECH54 - Consolidate Sensors, EW, and Electronics RDAT&E functions at Point Mugu with China Lake
- DON-162 – Close NAS Point Mugu

NAWCWD Point Mugu Scenarios

Scenario	NAWC EXPECTED Move	NAWC EXPECTED Eliminate
Tech-0018D PT 4 Relocate Weapons & Armaments to China Lake	589	0
Tech-0054 Relocate Sensors, electronics, and EW to China Lake	379	0
Total of 2 recommended actions	968	0
DON-162 Close NAS Point Mugu (DON did not support)	919	0
Total of all actions considered * = FY03 Baseline (1652 civilians, 235 military)	1887*	0

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NAWCWD Point Mugu Scenarios

Scenario	NAWC Expected		DON TEC Minutes 17 Mar 2005	
	Move	Eliminate	Move	Eliminate
Tech-0018D PT 4 Relocate Weapons & Armaments to China Lake	589	0	1625	287
Tech-0054 Relocate Sensors, electronics, and EW to China Lake	379	0	379	0
Total of 2 recommended actions	968	0	2004	287
DON-162 Close NAS Point Mugu (DON did not support)	919	0	158	0
Total of all actions considered * = FY03 On-board Baseline (1652 civilians, 235 military)	1887*	0	2162	287

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TECH2B (Folded into TECH18 by TJCSG) – Realign Point Mugu Weapons and Armament RDAT&E and relocate to China Lake

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The Meaning of Inextricable

- Guidance was given to the losing activities to include workload and facilities that was inextricable to the mission remaining but to explain these in the Q47 response
- In TECH18 none of the Q47 responses submitted by losing activities appear to be taken into account. The net result is that the personnel movements (and associated 15% savings) are overstated by a factor of 3 and facilities support reductions are overstated
- At NBVC alone, these errors result in approximately $30M per year in overstated savings.

TECH18D Point Mugu Q47 Certified Response

The following areas would require a reduction in the number of personnel, equipment, and facilities to be relocated to the receiving site: (1) F-14 weapons system support has been terminated, a reduction of 132 civilians and 24 contractors; (2) An error of 33 civilians performing EW support; (3) personnel, mission equipment, and facilities performing outdoor air range operations. These are an integrated, fixed base capability that must remain at the Point Mugu site to continue sea range operations, net reduction of 505 civilians, 153 contractors, 2667 tons of mission equipment, and 1022.4 KSFT of facility space; (4) Retaining the 3 anechoic chambers whose primary customer is the targets range complex, a net reduction of 14 civilians, 3 contractors, 90 tons of support equipment, and 44.2 KSF; (5) Keeping logistical support for targets with the targets hardware, a net reduction of 24 civilians,; and (6) Not moving the general and administrative support that currently services both China Lake and Point Mugu, a net reduction of 143 civilians and 22 contractors.

NAWCWD Certified Inputs

- TECH 0002B Scenario Data Call
  (Rolled into TECH 0018DR)

SDC Action #	FY03 Baseline Personnel No.	Rationale
14	343	Missile, Gun, or Energetic
14	246	Weapons Test Squadron (32 Civilian, 214 Military)
14	143	Indirect Personnel Supporting Both Sites
14	543	In-extricable Sea Range work
14	132	Terminated F-14 Support
14	33	EW Support Equipment Incorrectly Identified with Weapons (Included in TECH54)

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NAWCWD DONBITs Certified Inputs

SDC Action #	FY03 Baseline	Rationale
14	343	Missile, Gun, or Energetic

- 343 Missile, Gun, or Energetic Personnel
  - Weapons In service engineering (37)
  - Missile hardware in the loop (HIL) labs (16)
  - Weapons Sustainment Logistics (188)
  - Weapons Support Equipment (39)
  - Installed System Test Engineering (63)
- General First Cut implementation insight
  - Estimated one time unique costs of $36M to establish Missile HIL.
  - COBRA allowed $9M

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Green – Understand

NAWCWD DONBITs Certified Inputs

SDC Action #	FY03 Baseline	Rationale
14	246	Weapons Test Squadron (32 Civilians,214 Military)
14	143	Indirect Support Personnel Supporting Both Sites

- **Weapons Test Squadron**
  - Cost included:
    - Hanger and ramp MILCON at China Lake
    - Increased recurring operating expenses to transit to Sea Range
  - Savings:
    - COBRA calculated 15% savings of Wing and Squadron personnel
- **Indirect personnel**
  - Duplication and redundancy eliminated since 1992
  - Some functions site specific (facilities, security, STILO, IT, HR, etc)

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Yellow – Trying to Understand

NAWCWD DONBITS Certified Inputs

- **TECH 0002B Scenario Data Call (Rolled into TECH 0018DR)**

SDC Action #	FY03 Baseline	Rationale
14	543	Inextricable Sea Range work

- **The following Sea Test Range functions were excluded by Q47 response, and no military construction or dynamic data were input as part of this data call:**
  - 505 personnel in the range and targets competencies
  - 24 personnel performing targets logistics
  - 14 personnel operating the radar reflectivity lab supporting range and targets customers for the majority of their work
- **These personnel are an integrated, fixed base capability that must remain at the Point Mugu site to continue sea range operations**
- **DON-162 (Close NAS Point Mugu) evaluated relocating these functions but were not part of the recommendations**

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Red – Do Not Understand

Summary of TECH18 Impacts

Capability	Personnel included in TECH18	Facilities included In TECH18	Inextricable part of sea range ops
Range	Most	No	Yes
Targets	All	No	Yes
RCS Chambers	All	No	Yes
Test Squadron	All	Yes	Yes
Flight Test	Some	Yes	Some
Weapons Sustainment	All	Yes	No

TECH 18 Summary
Weapons and Armament RDAT&E

Take Away's:

- **Clearly defined weapons functions included and understood**
- **Weapons Test Squadron - Realignment**
  - **Significant MILCON costs understood**
  - **Recurring operating cost increase understood**
  - **Personnel savings not understood**
- **Indirect support - Realignment**
  - **Duplication and redundancy eliminated since 1992**
- **Range and Targets**
  - **Integrated, fixed base capability that must remain at Point Mugu to continue sea range operations**

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VX-30 Sea Range Support Aircraft

CDR Thomas Bourbeau

Commanding Officer

Air Test and Evaluation Squadron THREE ZERO

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BRAC Relocation Introduction

- **BRAC Proposal to Re-Align Weapons and Armament from Pt Mugu to China Lake**
  - Air Test and Evaluation Squadron 30 (VX-30), also referred to as "Weapons Test Squadron" in BRAC data, was included in the relocation of Weapons and Armament.
  - VX-30 does not test Weapons or Armament. The squadron provides airborne support to the Sea Range in it's support to a multitude of Navy, DoD and FMS testing and Navy/Marine Corps Fleet training.
- **VX-30 (Weapons Test Squadron) Aircraft Alignment Analysis**
  - VX-30 aircraft are mission aligned with the Sea Test Range and Targets Support (86%)
  - VX-30 provides minimal support of China Lake Land Test Range – 1% of sorties for "Big Wing Aircraft (P-3 & C-130)
- **Economic Analysis**
  - Non-recurring start up costs (Hangar/Ramp MILCON & Relocation costs): **~$28.3M**
  - Recurring annual costs (Mainly additional Transit/Detachment costs): **~$6.8M per year**

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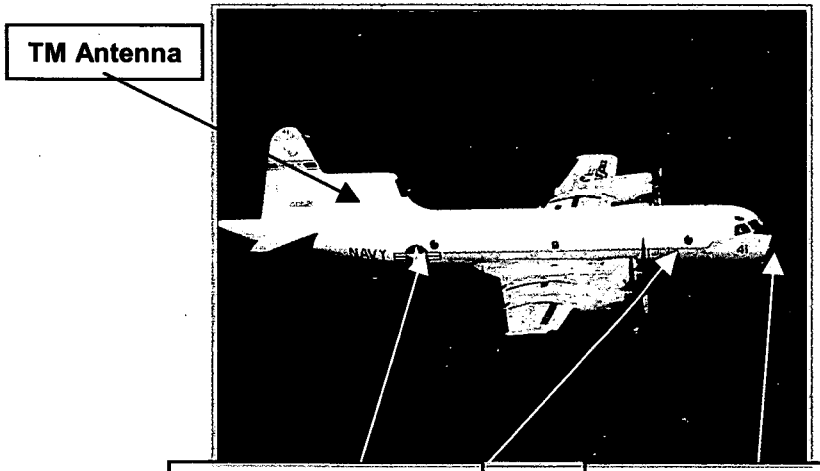
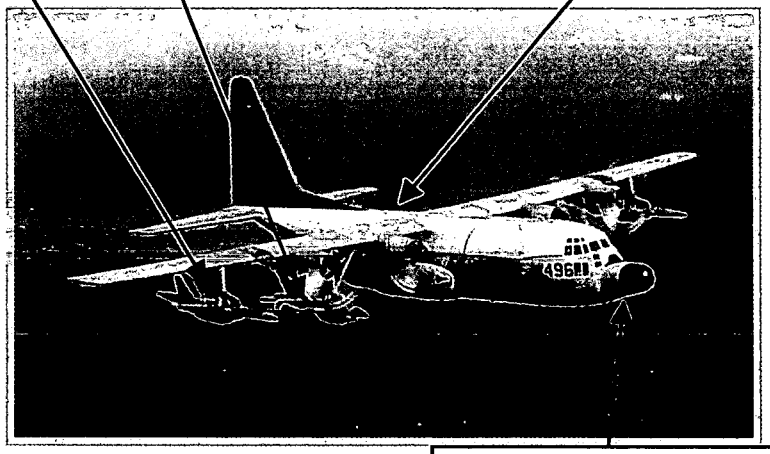
Background

- **In 1995, all NAVAIR Range and Target Support aircraft at the Point Mugu site were consolidated as VX-30**
- **Primary mission areas for VX-30 aircraft:**
  - (3) NP-3D Range support aircraft (Airborne range instrumentation/optics)
  - (2) DC-130 Range support aircraft (Airborne drone launch and Sea Test Range logistics support)
  - (6) F/A-18 Range tactical support aircraft with RDT&E & Fleet training missions





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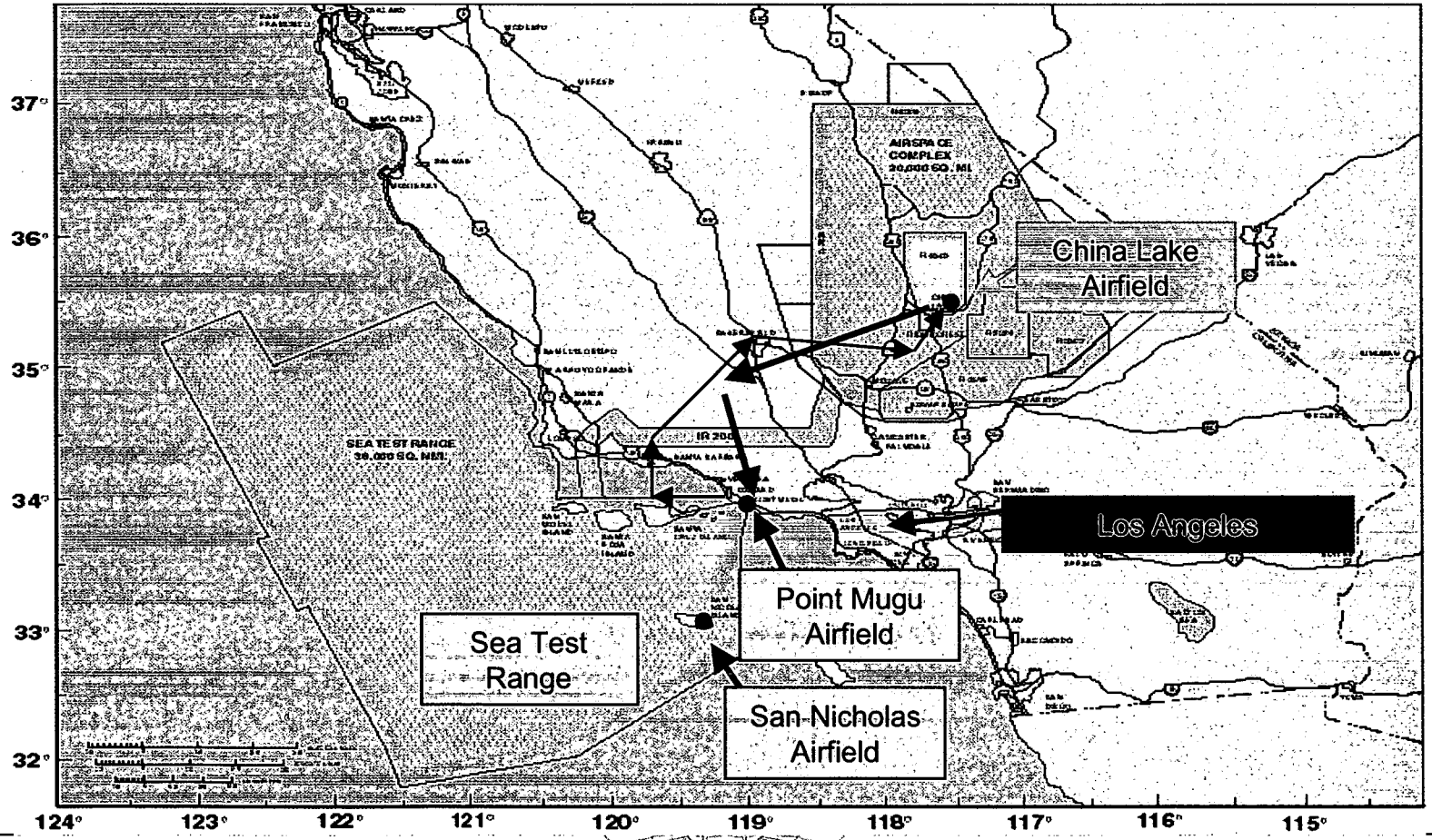
Range Geography

- Point Mugu and China Lake geographically separated by 150 miles by plane, 190 miles by car
- Approximately 40 minutes transit each way from China Lake to the Sea Test Range for NP-3D and DC-130 aircraft, 25 min transit for FA-18 aircraft
- Non-direct route of flight required to avoid high volume Los Angeles Air Traffic Area



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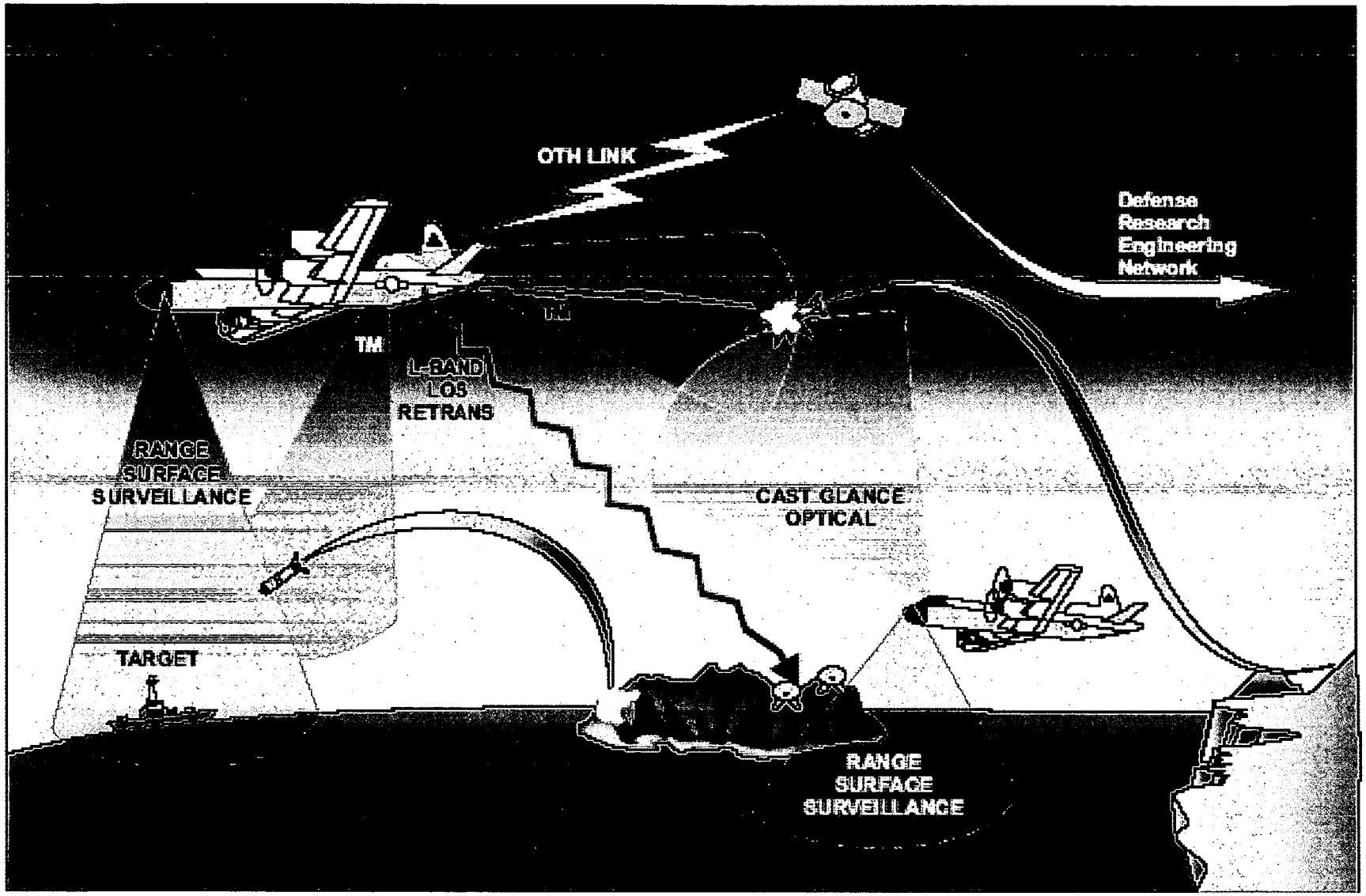
Integrated Range Support Concept



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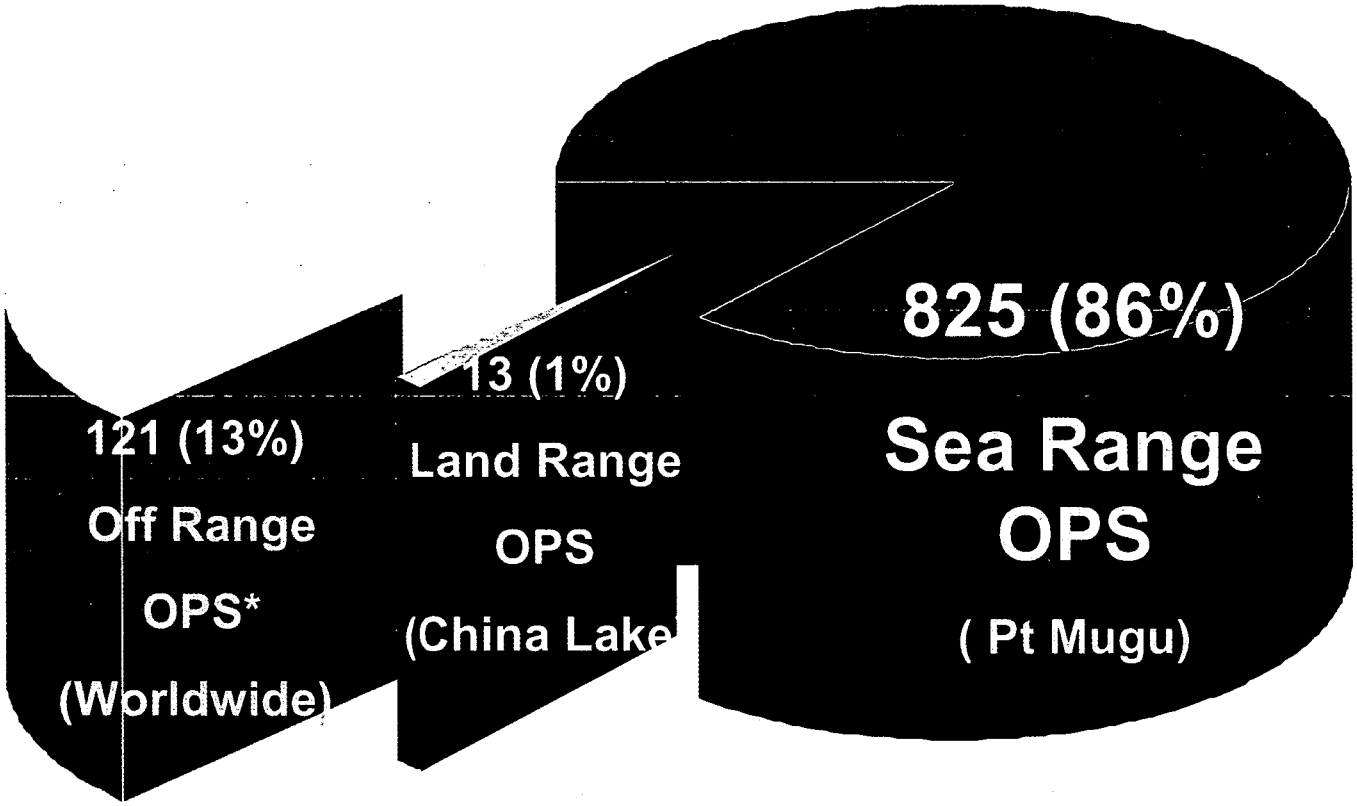
Range Support Aircraft Sorties
P-3 / C-130
FY03- FY05
(Data through June 05)



* Off Range Operations are conducted in various over-water locations, worldwide

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VX-30 Aircraft Alignment Analysis
Military Value

- **Range Support Aircraft at the Point Mugu site:**
  - Essential for Sea Test Range Operations
  - Provide co-located aircraft mission support for DoD, MDA, FMS and other DoD related customers on the Sea Test Range
    - **Telemetry receipt, display, recording and relay**
    - **Photometric receipt, display, recording and relay**
    - **Range safety, surveillance and clearance**
    - **Flight monitoring and commanded destruct systems**
    - **Airborne launch of subscale drones as targets for other systems under test**
    - **Tactical safety/photo chase and high speed targets**
    - **Logistics (Cargo) to/from San Nicolas Island and the mainland**
  - Military Value Customers include sea-based weapon systems (Aegis equipped ships, Trident missiles, Tomahawk, etc), air-based weapon systems (Sidewinder, AMRAAM, SLAM-ER, etc), and space-based systems testing (MDA systems)

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VX-30 Aircraft Alignment Analysis
Implementation Plan

- **Increased Military infrastructure, not a reduction of facilities**
  - Hanger and ramp facilities require MILCON at China Lake
- **Additional transit time & transit costs to missions**
  - **825 (86%)** of Sorties located on **Sea Test Range at Point Mugu**
  - **121 (13%)** of Sorties supported customers **Off-Range worldwide**
  - **13 (1%)** of Sorties located on **Land Range at China Lake**
- **Challenges in providing Sea Test Range support**
  - Geographic separation from the Sea Test Range hinders communications for mission coordination, planning, briefing, and de-briefing
  - Increased transit and stop-over time at Pt Mugu to load and maintain range equipment and pick up range equipment operators (for many missions)
- **Test Operation completion risk**
  - Increased mission support complexity - greater risk of aircraft breaking down because of required interim stop at Pt Mugu site to pick up targets, project specific equipment, personnel, and range specific equipment for many range operations

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Summary

Proposed Relocation of VX-30 from Point Mugu to China Lake

- **VX-30 Aircraft Mission Alignment Analysis**
  - Mission of VX-30 aircraft is aligned with Sea Test Range and Targets at Pt Mugu, not with Weapons and Armament testing at China Lake Land Range
  - Mission success complexity challenges:
    - Additional flights required for many missions (stopover at Pt. Mugu)
    - Geographic separation from the Sea Test Range complicates mission coordination, planning, briefing and execution
- **Economic Analysis**
  - Additional MILCON & re-location costs **~$28.3M**
    - New aircraft hanger and ramp required to be built at China Lake
  - Additional Recurring costs **~$6.8M per year**
    - Cost for additional aircraft transit time and required detachment travel

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VX-30 Range Support Missions

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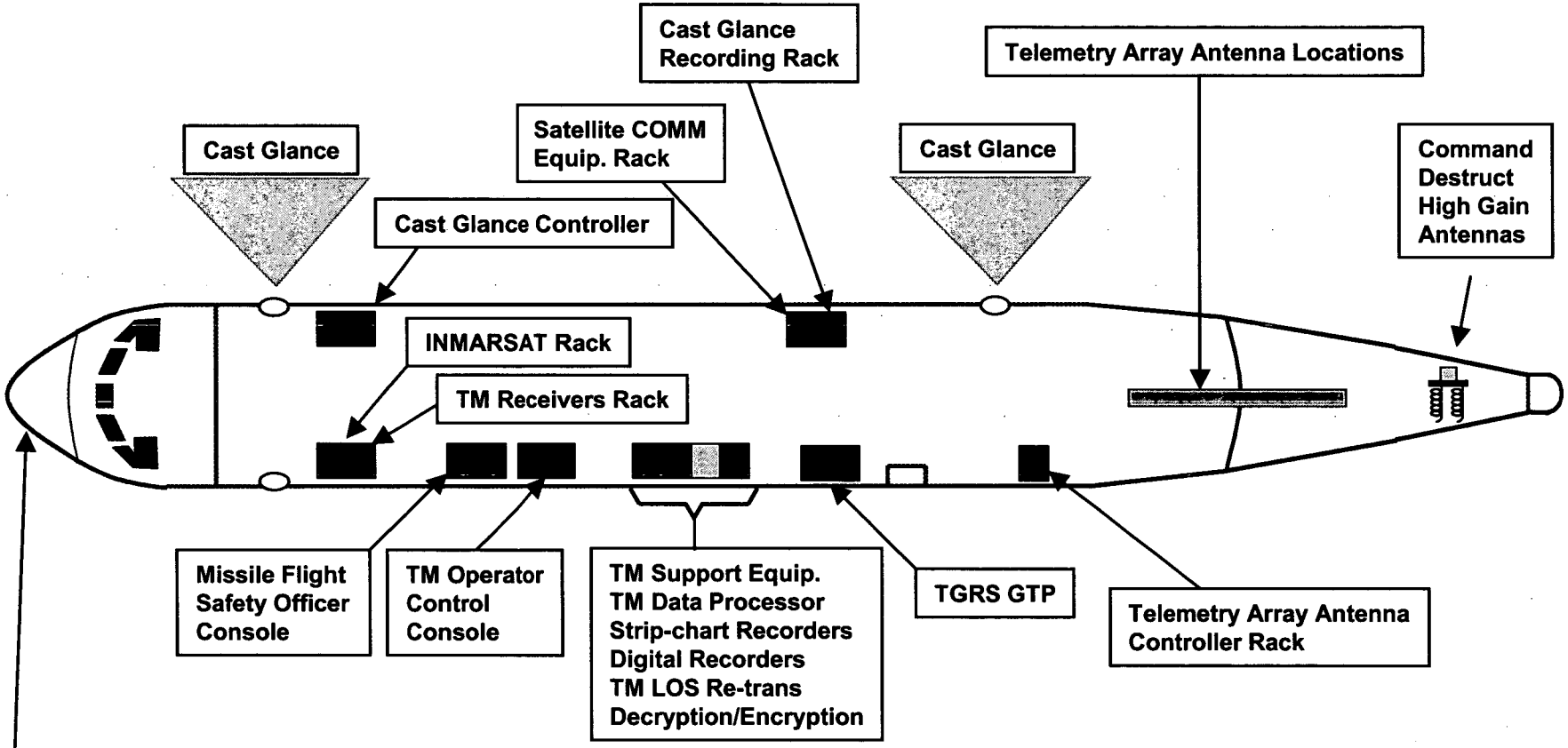
Highly Modified Range Support Aircraft



Range Support Equipment Layout

Surface Search Radar - (Required for Range Support Missions but Standard in Most P-3's)

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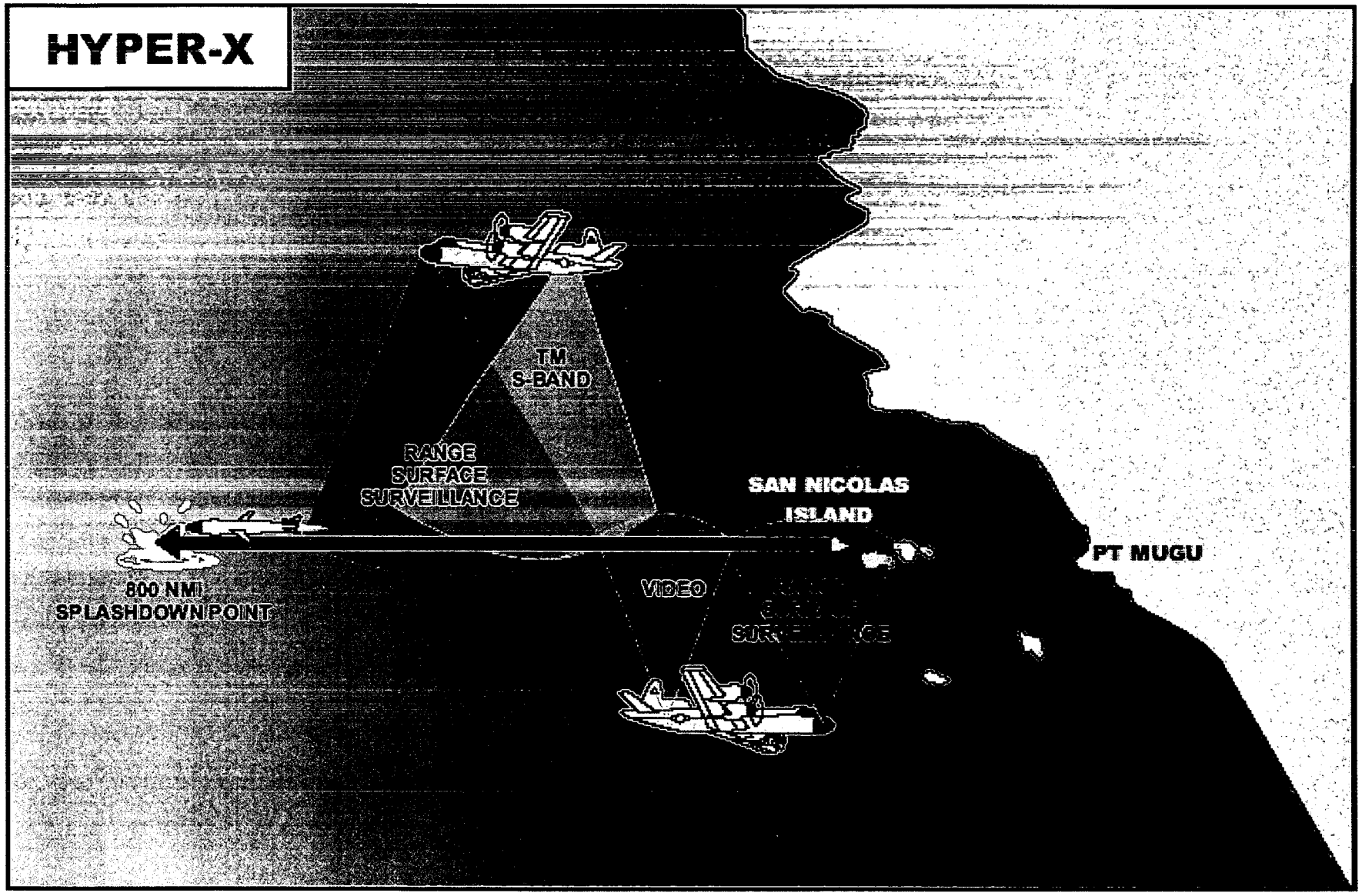
Long Range Missile Testing Support



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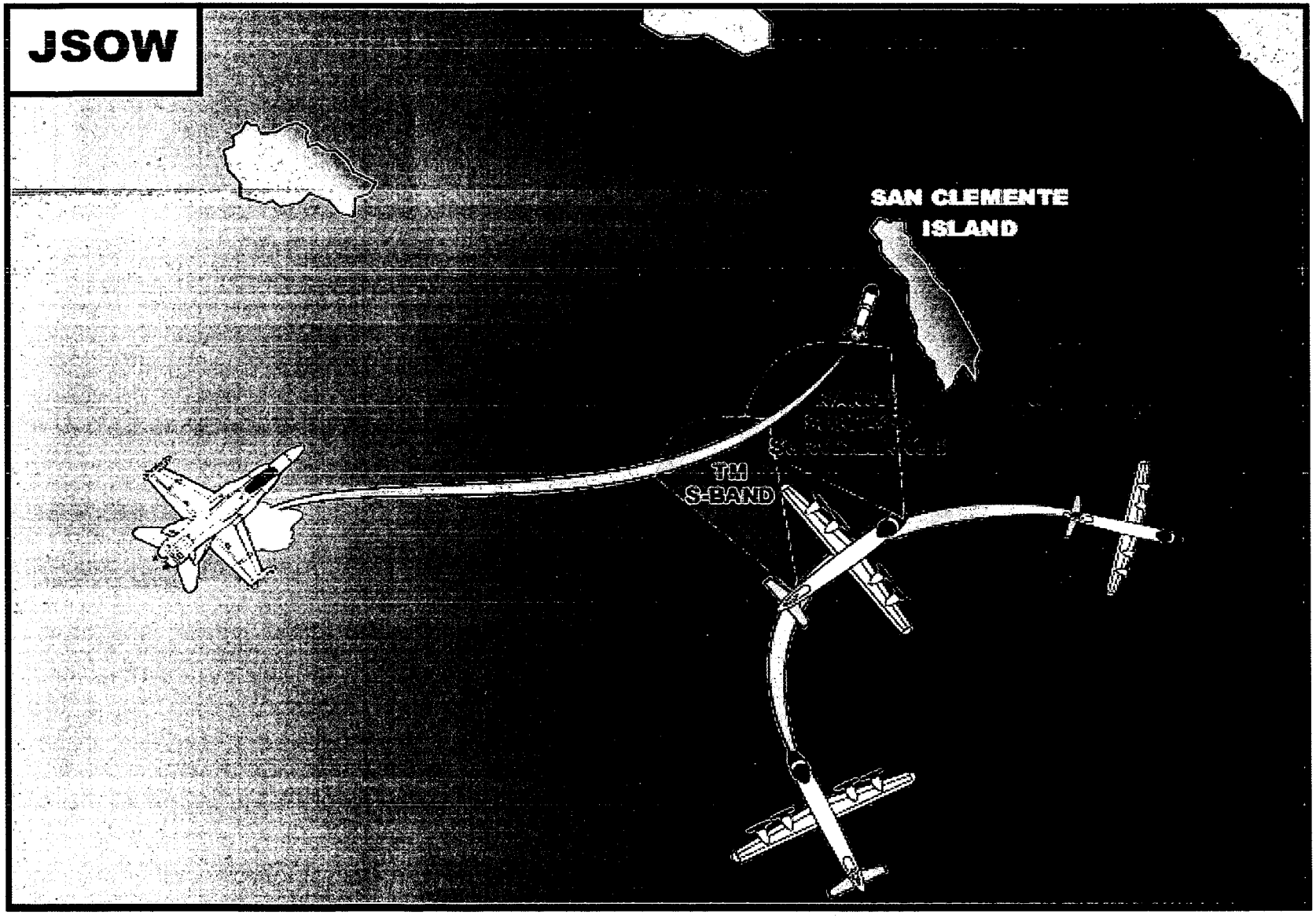
Tactical Weapon Testing Support



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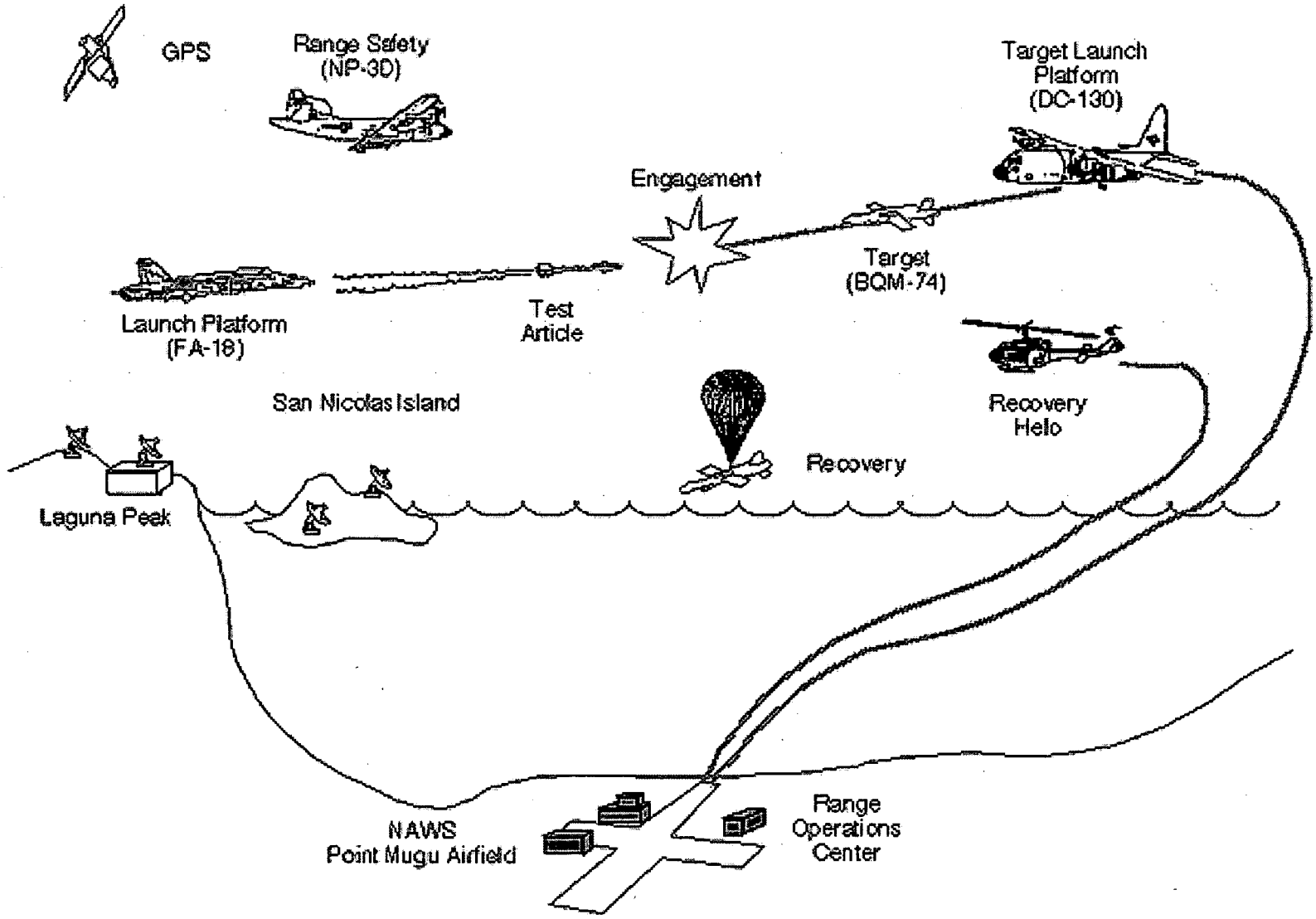
Air-Launch Test Mission Support



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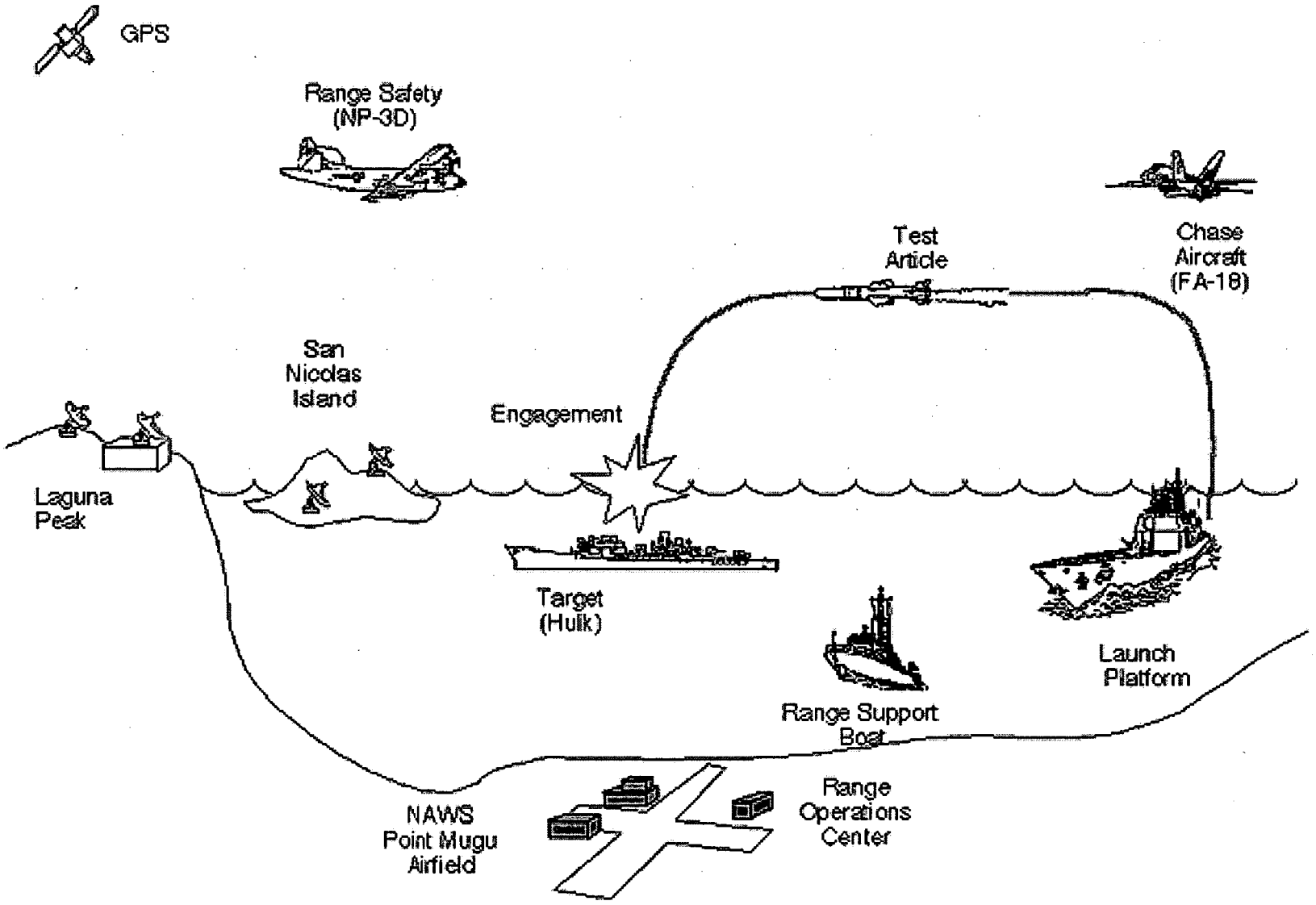
Surface-launch Test Mission Support



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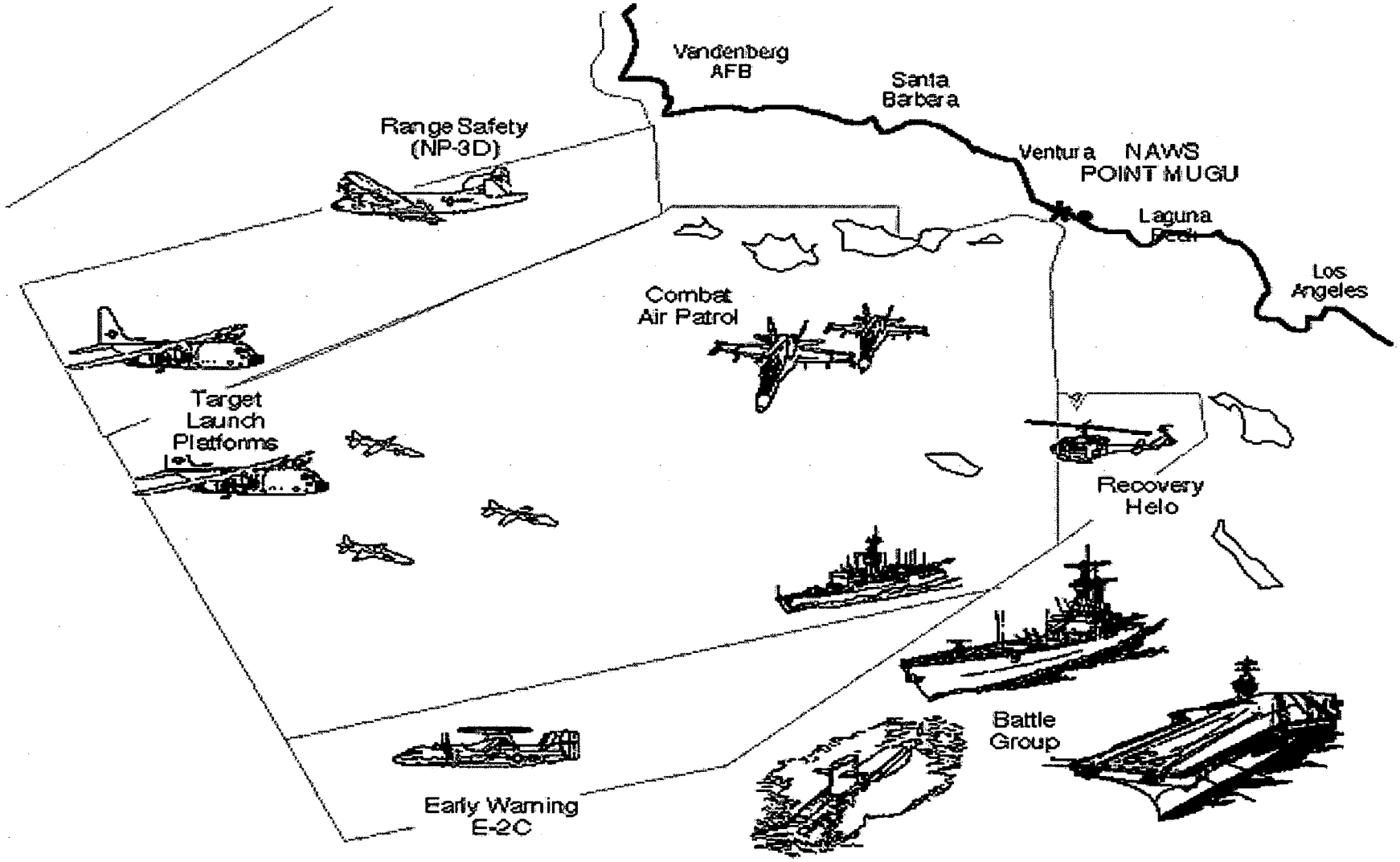
Fleet Training Mission Support



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Range Support Aircraft: Mission Requirements

- Range Safety Surveillance and Clearance
- Airborne Telemetry System (ATS)
- Cast Glance (Visual and Near IR Photometric)
- Flight Termination / Command Destruct System
- Airborne C2W / Communications Relay (AUTOCAT)
- Target Drone Launch
- Airborne Logistics Support

- **Primary Customers**
  - TOMAHAWK
  - AIM-9X
  - Titan II/IV
  - AEGIS BMD
  - MDA
  - NASA
  - Trident
  - Fleet Support
  - Numerous FMS
- **Ranges/Facilities**
  - Sea Test Range
  - Land Ranges at CL and Edwards AFB
  - SPAWAR (San Diego)
  - Vandenberg AFB
  - Reagan Test Site (Kwajalein)
  - PMRF (Barking Sands)
  - All Atlantic, Pacific and Arctic Ocean areas
- **Types of Tests**
  - Air to Air
  - Air to Surface
  - Surface to Air
  - Surface to Surface
  - Ballistic Launch, Intercept and Re-entry

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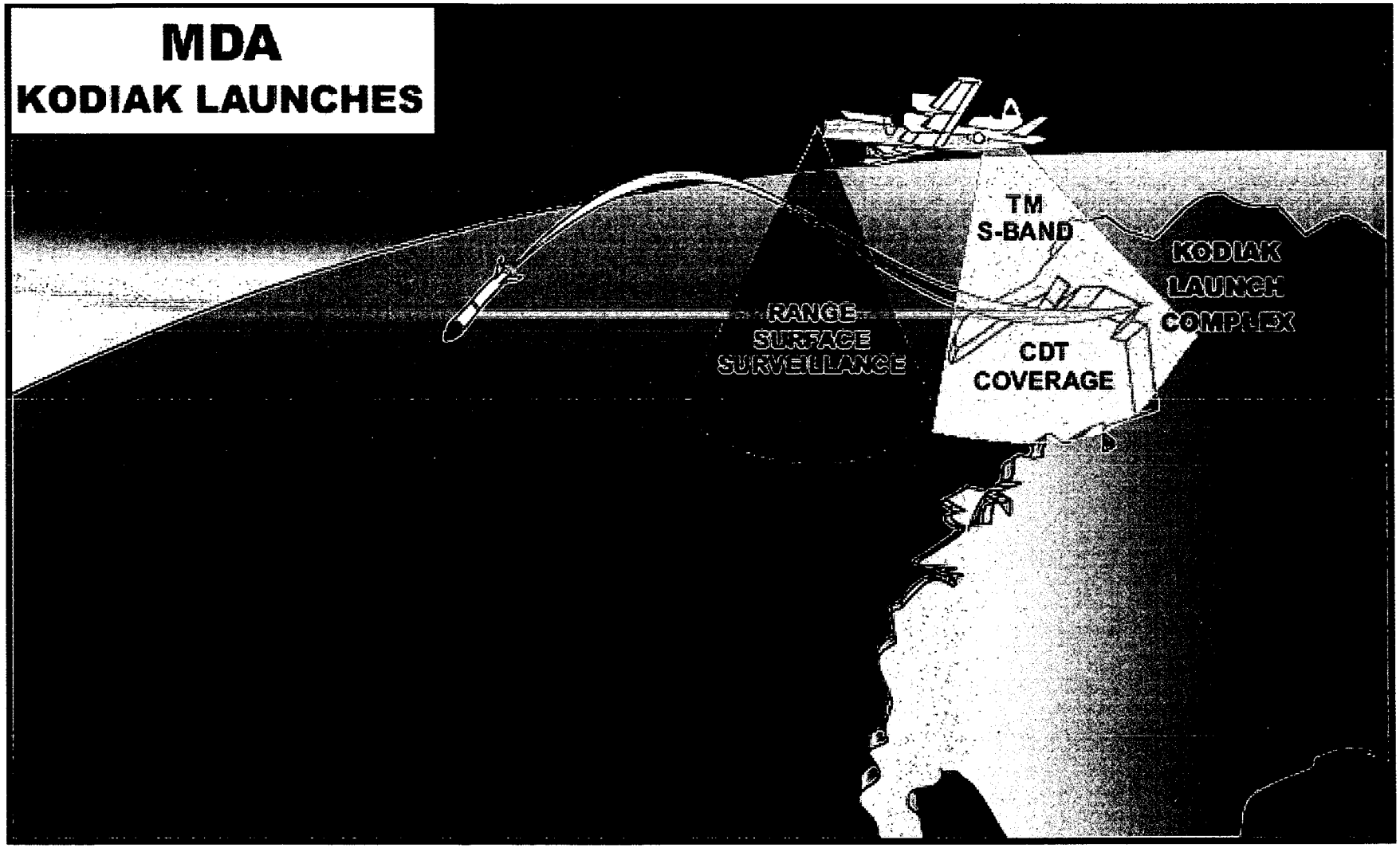
Missile Defense Testing Support



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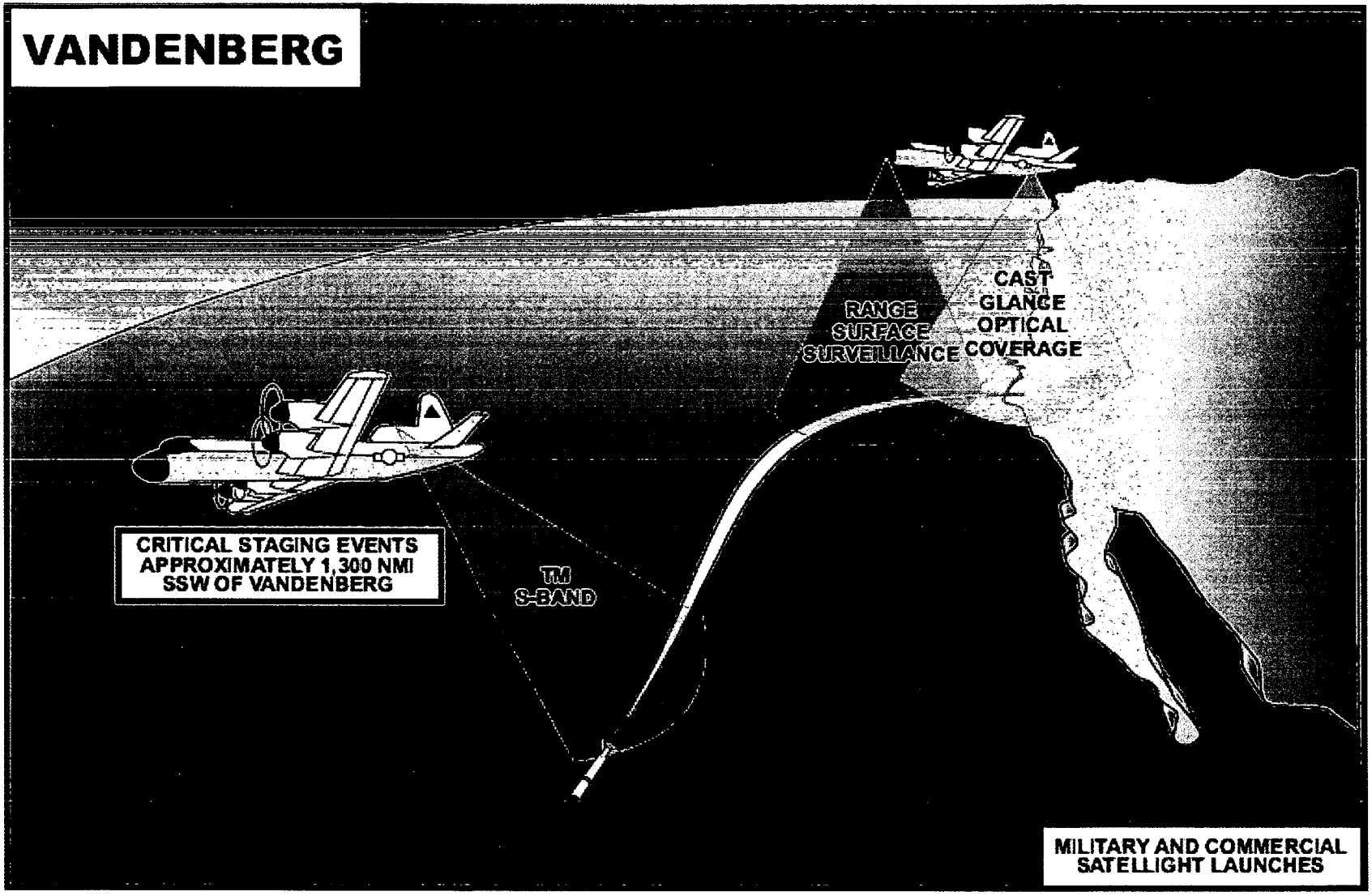
NASA Launch Support



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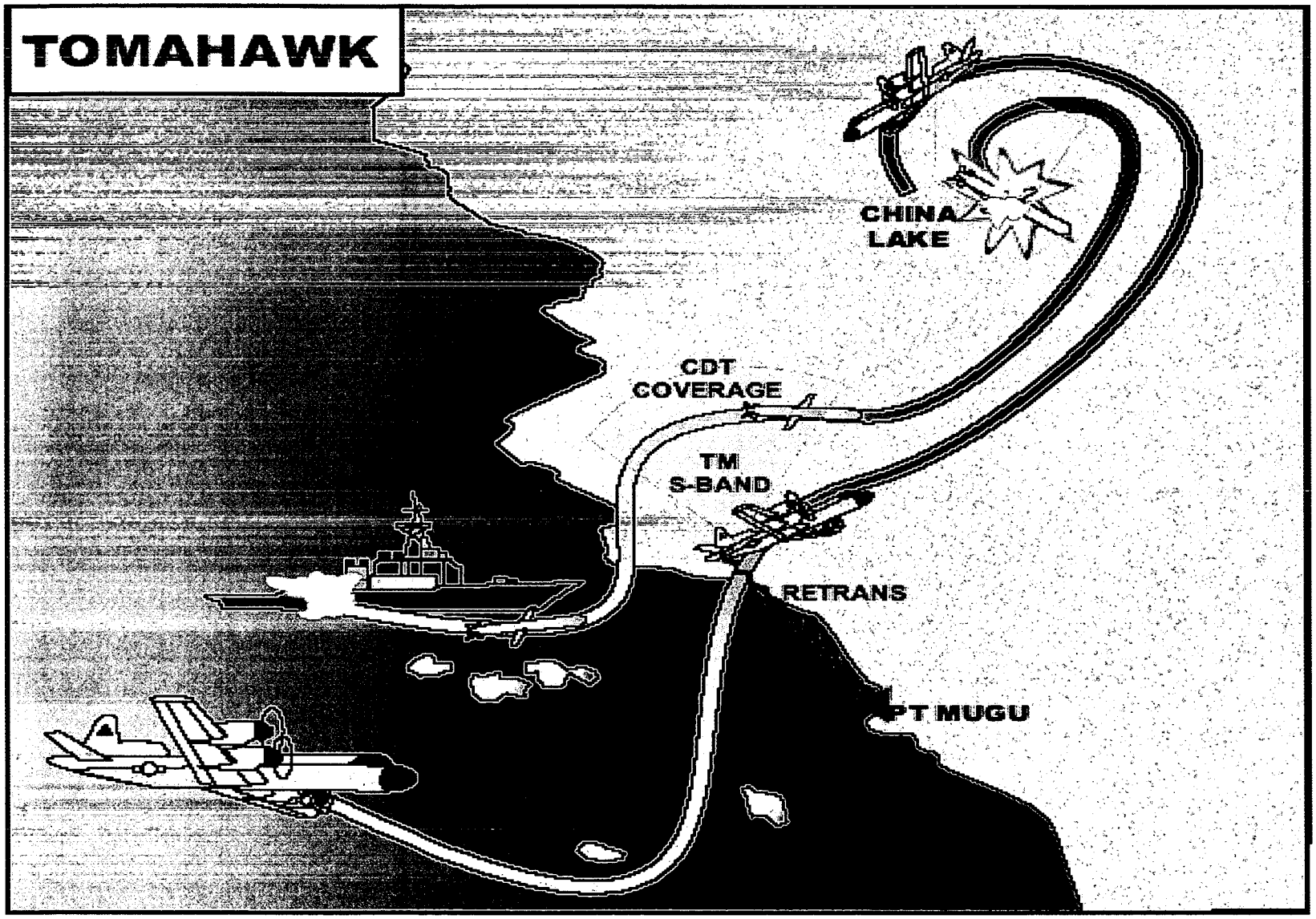
Tomahawk Missile Testing Support



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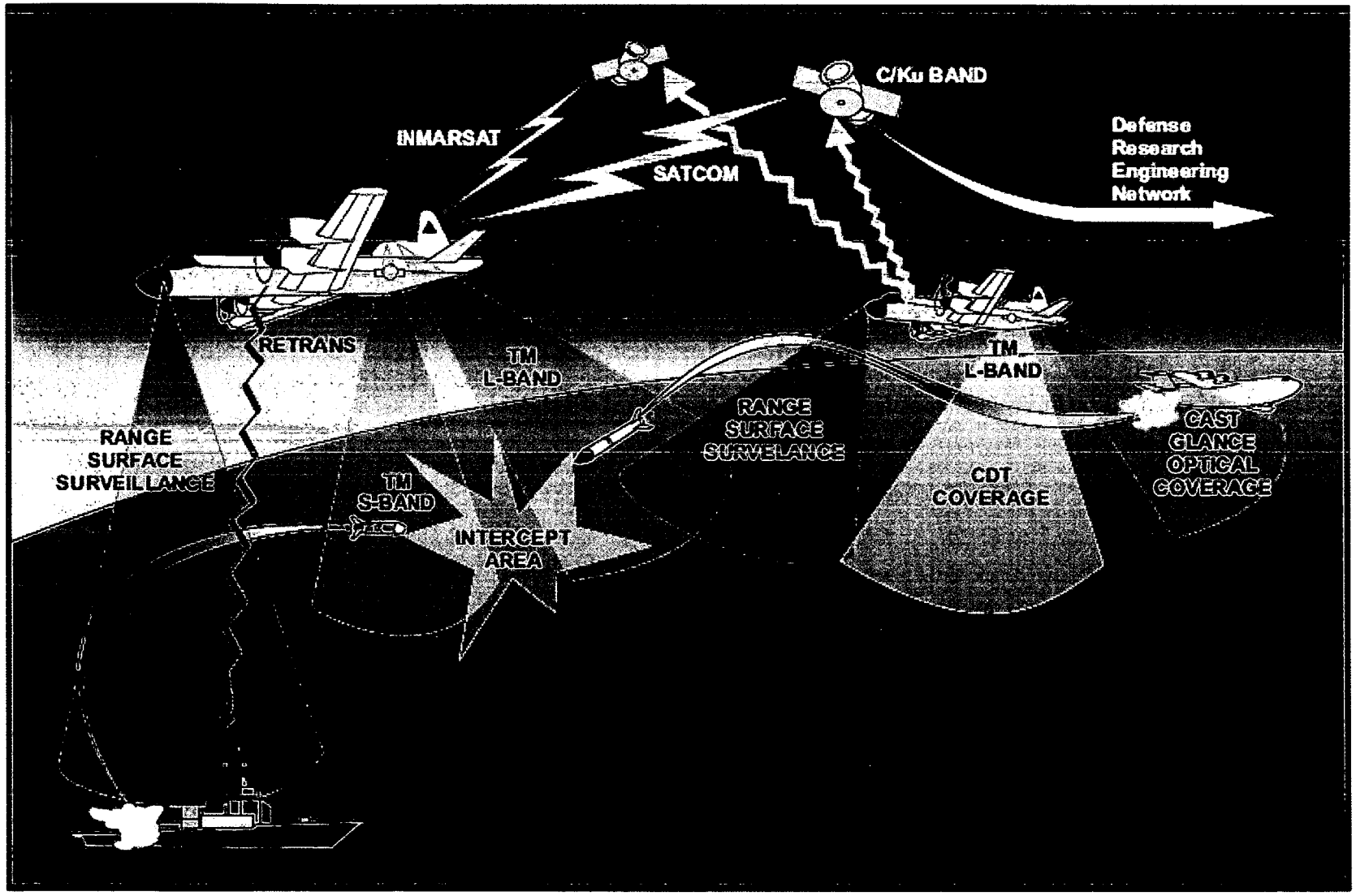
Open Ocean Testing Support



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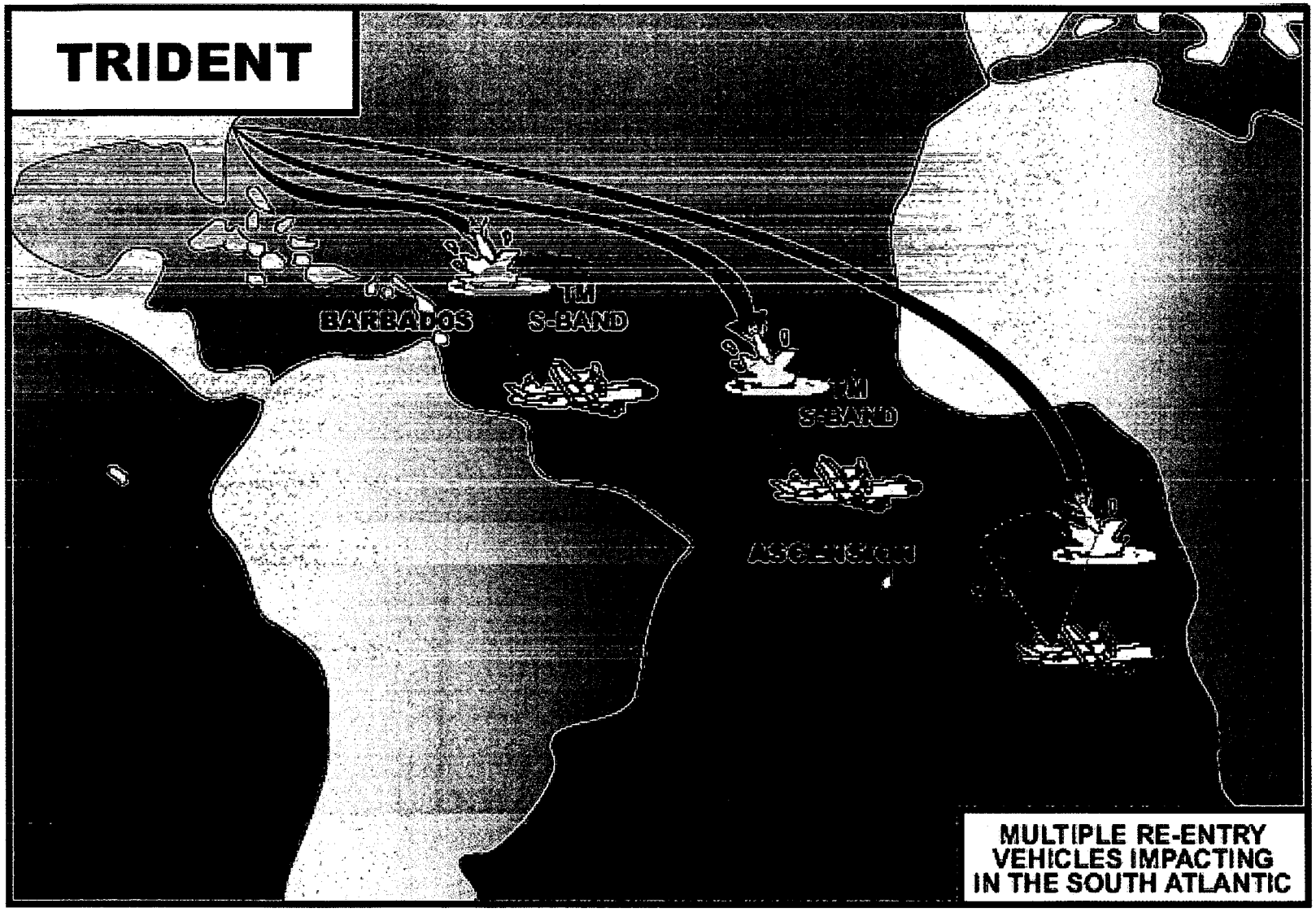
Trident Testing Support



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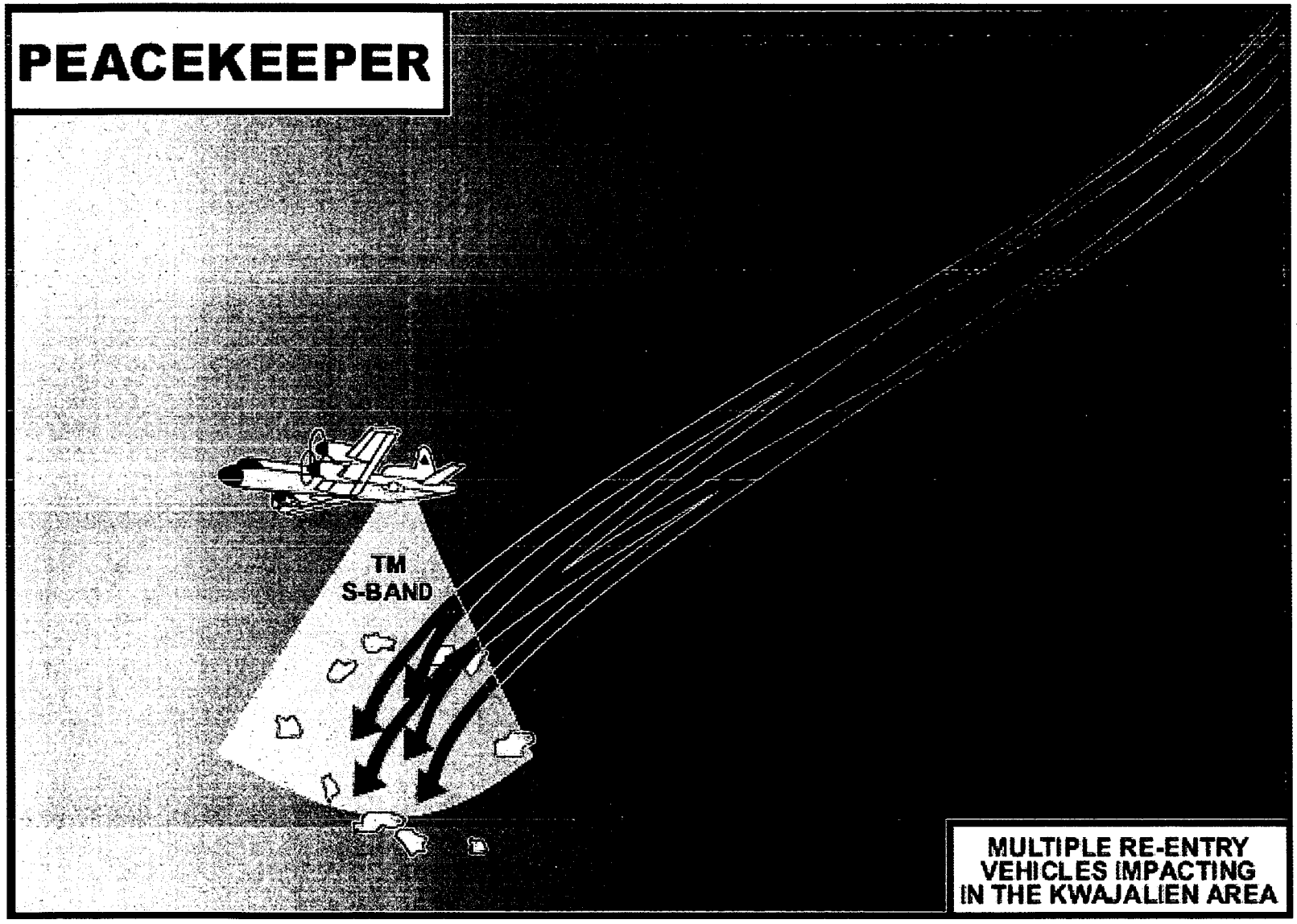
Strategic Weapon Testing Support



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Aircraft Alignment and Economic Analysis Data

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Economic Analysis (based on COBRA data)

- **Non-Recurring Costs ~ $28.3M Additional Cost**
  - Costs for re-location of personnel, aircraft and associated equipment ($5.6M)
  - Costs for MILCON of a new (P-3/C-130) hangar to replicate existing hangar ($16.3M)
  - Costs for MILCON of a new (P-3/C-130) ramp area to replicate existing ramp area ($6.4M)
- **Recurring annual increased cost of operations ~ 6.8M per year Additional Cost**
  - Costs for additional transit time (P-3) to Sea Test Range from CL site ($4.5M)
  - Costs for additional transit time (C-130) to Sea Test Range from CL site ($2.4M)
  - Costs for required detachments at PM site from CL to support PM site operations ($.33M)
  - Approximate savings - lower wage rate at CL site (civilians & contractors) ($0.43M)
- **Summary:**
  - Relocating the VX-30 Range Support Aircraft from existing hangar and ramp facilities at the Pt Mugu site does not create any meaningful consolidation efficiencies, and generates a significant net cost increase, both initial and recurring.

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Detailed ROI Data-Non Recurring Costs

- **MILCON costs**
  - Hangar - 53,536 sq ft = $10.39M to $16.25M (Cobra)
  - Ramp – 68,639 sq yd = $3.33M to $6.38M(Cobra)
- **Relocation costs: movement of aircraft & personnel**
  - Transit aircraft, equipment and materials = $0.38M
  - Move personnel (194 military and 17 civilian persons) = $3.24M
  - Move 55 contractor maintenance personnel excluded = $0.00M
- **Labor costs: labor involved in executing re-location**
  - Military lost mission time costs = $1.28M
  - Civilian lost mission time costs = $ 0.17M
  - Contractor lost mission time costs = $ 0.55M

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Detailed ROI data-Recurring Costs

Increased distance to Sea Test Range Op Area adds transit costs

- Annual cost increase to Range customers = $ 6.9M per year (BRAC scenario data)

- **Increased flight hours and takeoff/landings increase fatigue life costs**
  - Additional takeoffs & landings = approximately 400 per year
  - 880 added flight hours per year - uses up airframe quicker
  - Increased complexity for support adds risk to customer
  - Additional takeoffs & landings (at PM site) increase risk to mission completion

- **Very minimal labor savings due to consolidation/location pay**
  - No military savings for P-3/C-130: military personnel are also minimum aircrew
  - No contractor maintenance savings: already at minimum staffing for 5 aircraft
    - **55 contract maintainers maintain 5 VX-30 "Big Wing Aircraft" (P-3 & C-130)**
    - **150 – 175 active duty Sailors maintain 4 Fleet Squadron aircraft (E-2 or EA-6B)**
    - **212 – 225 active duty Sailors maintain 9 Fleet Squadron aircraft (P-3C) (Ratio 118 –125 for 5 P-3C aircraft)**
  - No additional civil service savings: Civilian manning tied to Range Support Aircraft minimum required for Range Support Aircraft operations
  - Very small labor rate delta = $ 0.43M per year savings based upon 10% lower wage costs for contractors and civilians

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Range Support Aircraft Flight Hour and Sortie Summary Data

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Range Support Breakdown By Location FY-03-FY05

	P-3				C-130				P-3/C-130 Combined			
	Hours	% hrs	Sorties	% sorties	Hours	% hrs	Sorties	% sorties	Hours	% hrs	Sorties	% sorties
FY03 Sea Range	630.7	73%	155	79%	79.3	43%	116	89%	710.0	67%	271	83%
FY03 Off Range	206.9	24%	34	17%	99.9	54%	13	10%	306.8	29%	47	14%
FY03 Land Range	31.0	4%	6	3%	6.0	3%	2	2%	37.0	4%	8	2%
FY03 Total	868.6	100%	195	100%	185.2	100%	131	100%	1053.8	100%	326	100%
FY04 Sea Range	925.7	78%	239	84%	224.2	93%	180	97%	1149.9	81%	419	90%
FY04 Off Range	252.3	21%	42	15%	10.7	4%	3	2%	263.0	18%	45	10%
FY04 Land Range	8.8	1%	2	1%	6.2	3%	2	1%	15.0	1%	4	1%
FY04 Total	1186.8	100%	283	100%	241.1	100%	185	100%	1427.9	100%	468	100%
FY05 Sea Range	340.9	68%	83	76%	83.6	88%	52	93%	424.5	72%	135	82%
FY05 Off Range	156.8	32%	26	24%	8.1	9%	3	5%	164.9	28%	29	18%
FY05 Land Range	0.0	0%	0	0%	3.4	4%	1	2%	3.4	1%	1	1%
FY05 Total	497.7	100%	109	100%	95.1	100%	56	100%	592.8	100%	165	100%
FY03-05 Sea Range	1897.3	74%	477	81%	387.1	74%	348	94%	2284.4	74%	825	86%
FY03-05 Off Range	616.0	24%	102	17%	118.7	23%	19	5%	734.7	24%	121	13%
FY03-05 Land Range	39.8	2%	8	1%	15.6	3%	5	1%	55.4	2%	13	1%
FY03-05 Total	2553.1	100%	587	100%	521.4	100%	372	100%	3074.5	100%	959	100%

* FY-03 C-130 off range hours include one-time Iraqi Freedom Deployment
* P-3 Off Range Flights include 11 detachments to Hawaii, 2 to Ascension Island, and 1 to Antigua
* FY-05 data thru 7 June 05

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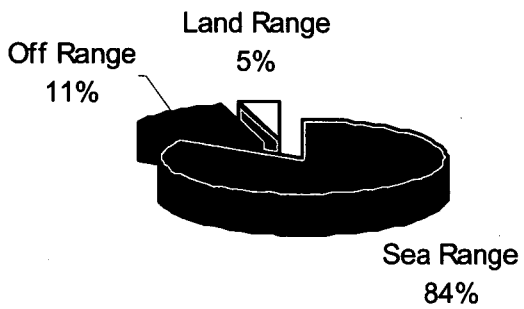
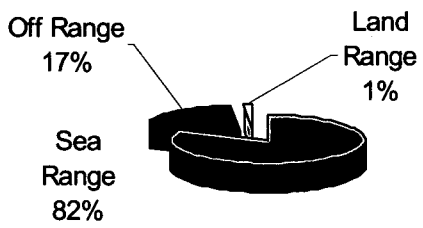
Range Support Sortie Breakdown By Location (FY03-FY05)

Aircraft	Sea Range	Land Range	Off Range
NP-3D	76-84%	0-3%	15-24%
DC-130	88-97%	1-2%	5-10%
FA-18 (FY05)	63%	37%	0%
TOTAL (average)	84%	5%	11%

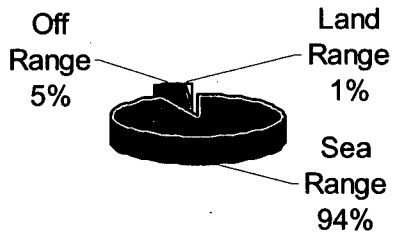
VX-30 Range Support (FY03-05) (All Aircraft Types)



P-3 Sorties (FY03-05)



C-130 Sorties (FY03-05)

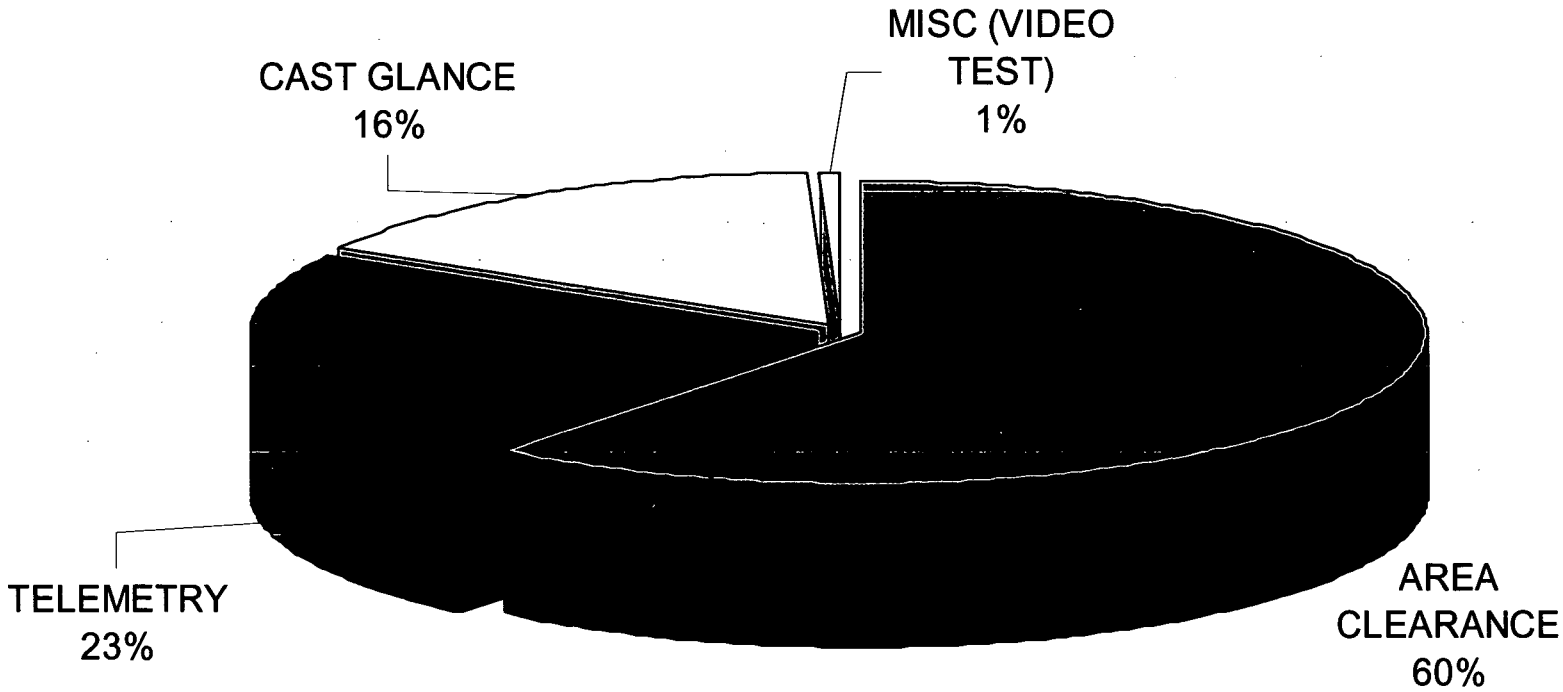


FA-18 Sorties (FY05 only)

DCN: 5119

NAVAIR

FY-04 NP-3D FLIGHT HOUR BREAKDOWN (ALL LOCATIONS)

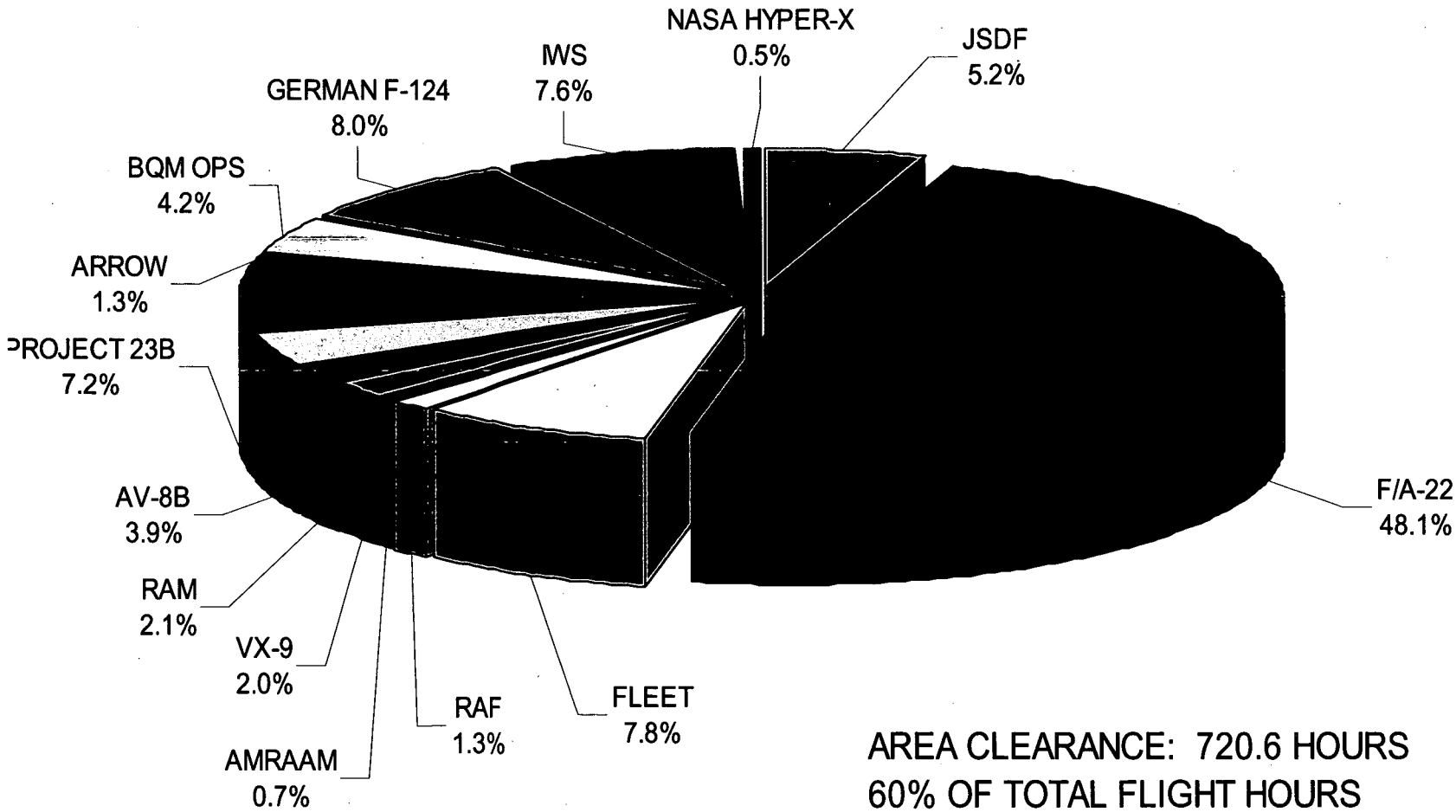


TOTAL FLIGHT HOURS: 1186.8

TELEMETRY:	267.1
CAST GLANCE:	193
AREA CLEARANCE:	720.6

FINAL v16

FY-04 AREA CLEARANCE BREAKDOWN BY CUSTOMERS (ALL LOCATIONS)



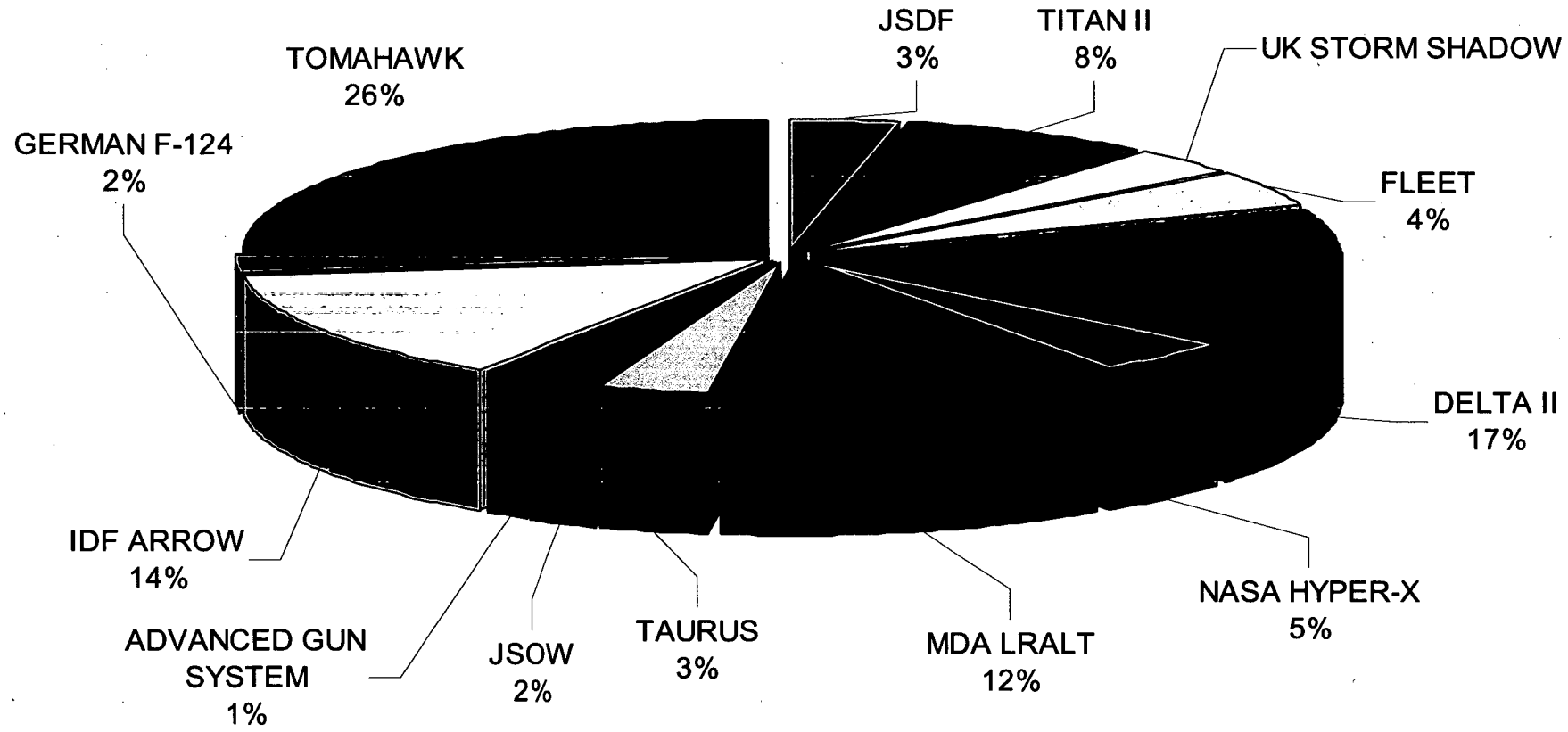
AREA CLEARANCE: 720.6 HOURS
60% OF TOTAL FLIGHT HOURS

DCN: 5119

NAVAIR

FINAL v16

FY-04 TELEMETRY BREAKDOWN BY CUSTOMER (ALL LOCATIONS)



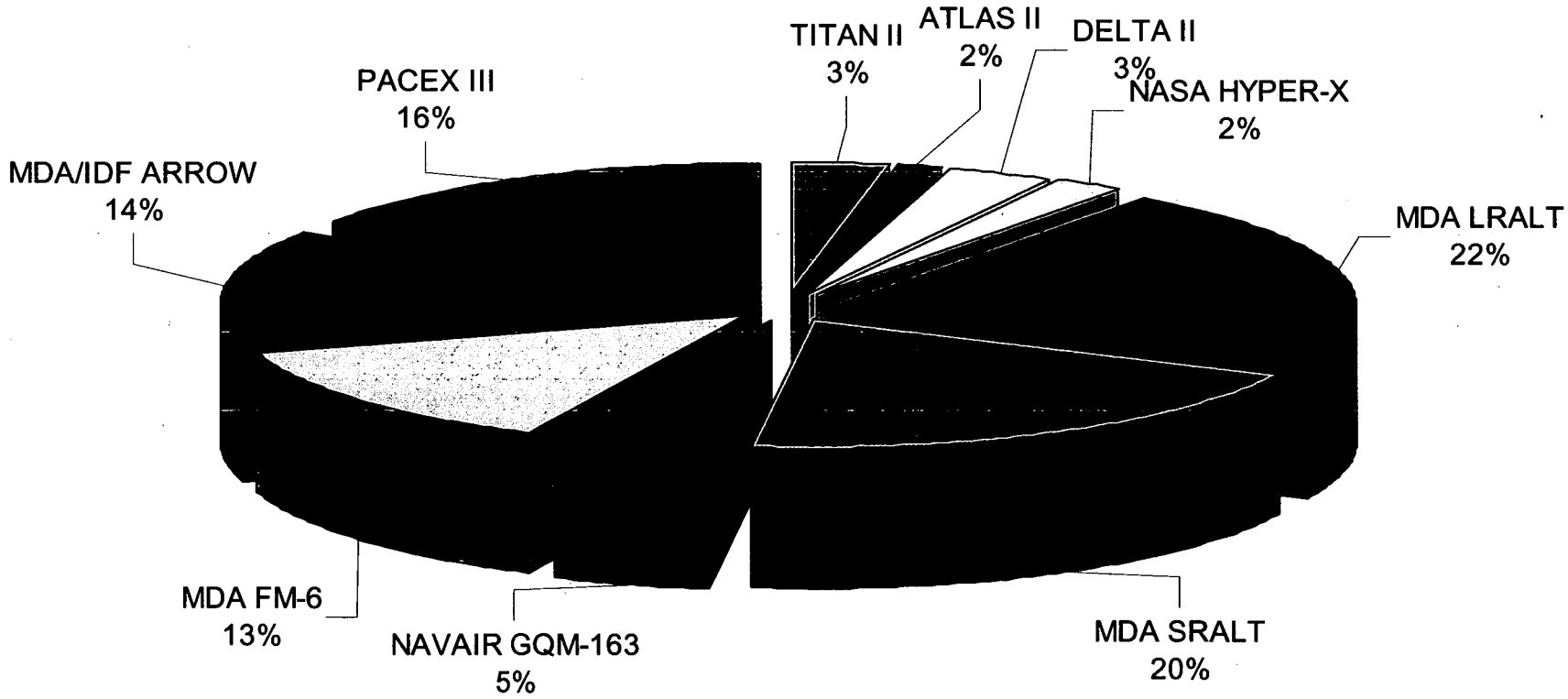
TELEMETRY: 267.1 HOURS
23% OF TOTAL FLIGHT HOURS

DCN: 5119

NAVAIR

FINAL v16

FY-04 CAST GLANCE BREAKDOWN BY CUSTOMER (ALL LOCATIONS)



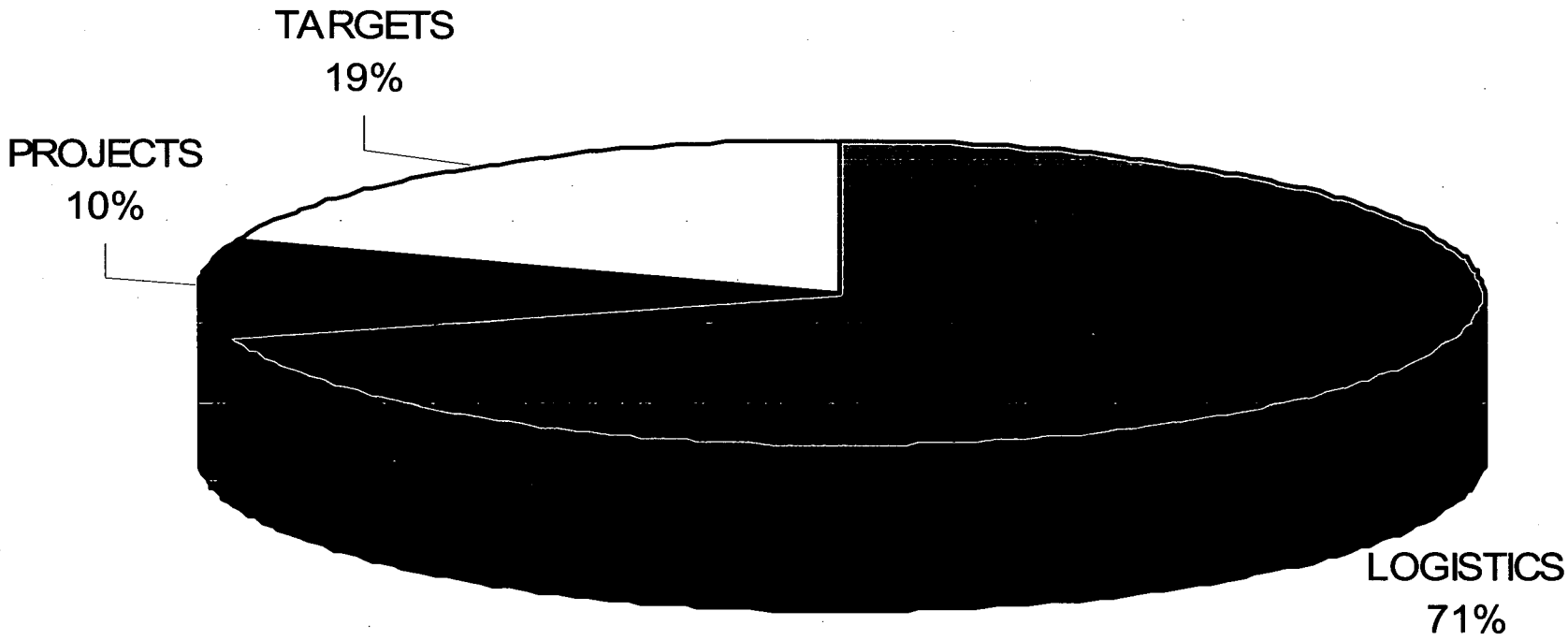
CAST GLANCE: 193 HOURS
16% OF TOTAL FLIGHT HOURS

DCN: 5119

NAVAIR

FINAL v16

FY04 C-130 PROJECT HOUR BREAKDOWN (ALMOST ALL SEA RANGE)



TOTAL FLIGHT HOURS: 257.8

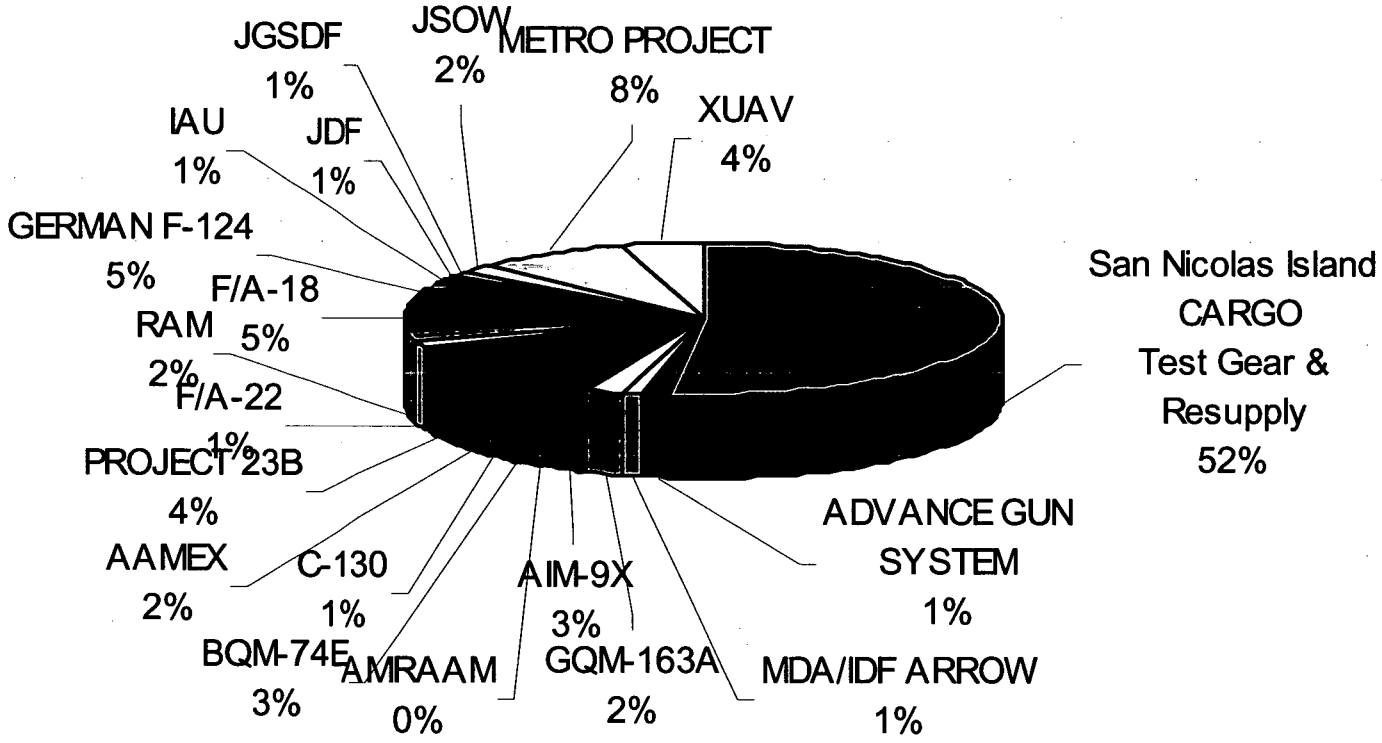
LOGISTICS:	181.8
TARGETS:	50.0
PROJECTS:	26.0

DCN: 5119

NAVAIR

FINAL v16

FY04 C-130 Customer Breakdown (ALMOST ALL SEA RANGE)



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NAVAIR

Library

NAVAIR

Naval Air Warfare Center (NAWC)Weapons Division
Point Mugu
Overview

PURPOSE OF BRIEFING

- NAWC UNDERSTANDING OF THE ROLE OF THE COMMISSION
  - "Provide an objective, thorough, accurate, and non-partisan review and analysis, through a process determined by law, of the list of bases and military installations which the Department of Defense (DoD) has recommended be closed and/or realigned....The Commission is required to assess each recommendation to ensure it meets the eight selection criteria set forth by Congress in P.L. 108-375. Recommendations by DoD that substantially deviate from these selection criteria can be modified or rejected by the Commission by a simple majority vote of the Commissioners"
  - Selected criteria list:
    - Current and future mission capabilities and impact on operational readiness of DoD, including impact on joint warfighting, training, and readiness
    - Ability to accommodate contingency, mobilization, surge, and future force requirements at both existing and potential receiving locations to support operations and training.
    - The cost of operations and manpower implications
    - Extent and timing of potential costs and savings, including the number of years, beginning with the date of completion of the closure or realignment, for the savings to exceed costs

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EXPECTED TAKEAWAYS

- NAWC Weapons Division understands and strongly supports the BRAC process goals:
  - Recommendations that facilitate transformation
  - Recommendations that deliver efficiencies
- The recommendations you are reviewing are the result of NAWC input and DoN/DoD analysis.
- Reconciliation of published BRAC Weapons and Armament recommendation data will facilitate implementation actions
  - Reconciliation of NAWC and final DoD data with retention of Sea Range functions at Point Mugu
- Your analysis will validate:
  - the risks are reasonable
  - transformation is achieved and
  - return on investment and efficiencies are substantiated

BRIEFING OUTLINE

- NAWC Weapons Division, Point Mugu history, mission and capabilities
- Existing NAVAIR and NAWC Weapons Division Organizational Construct
  - Competency Aligned Organization/Integrated Product Teams
- Takeaways
- Summary

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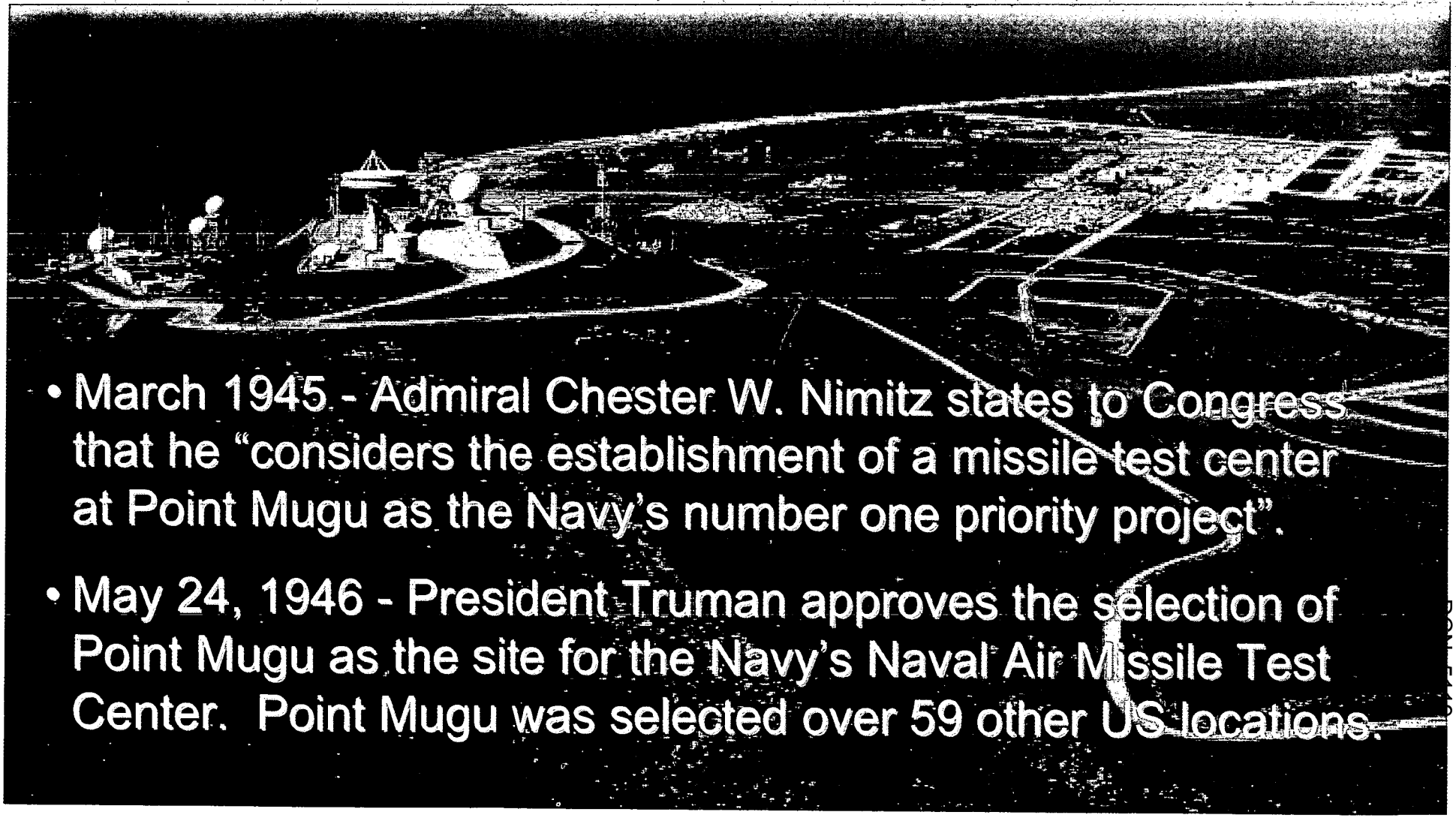
Point Mugu Origins



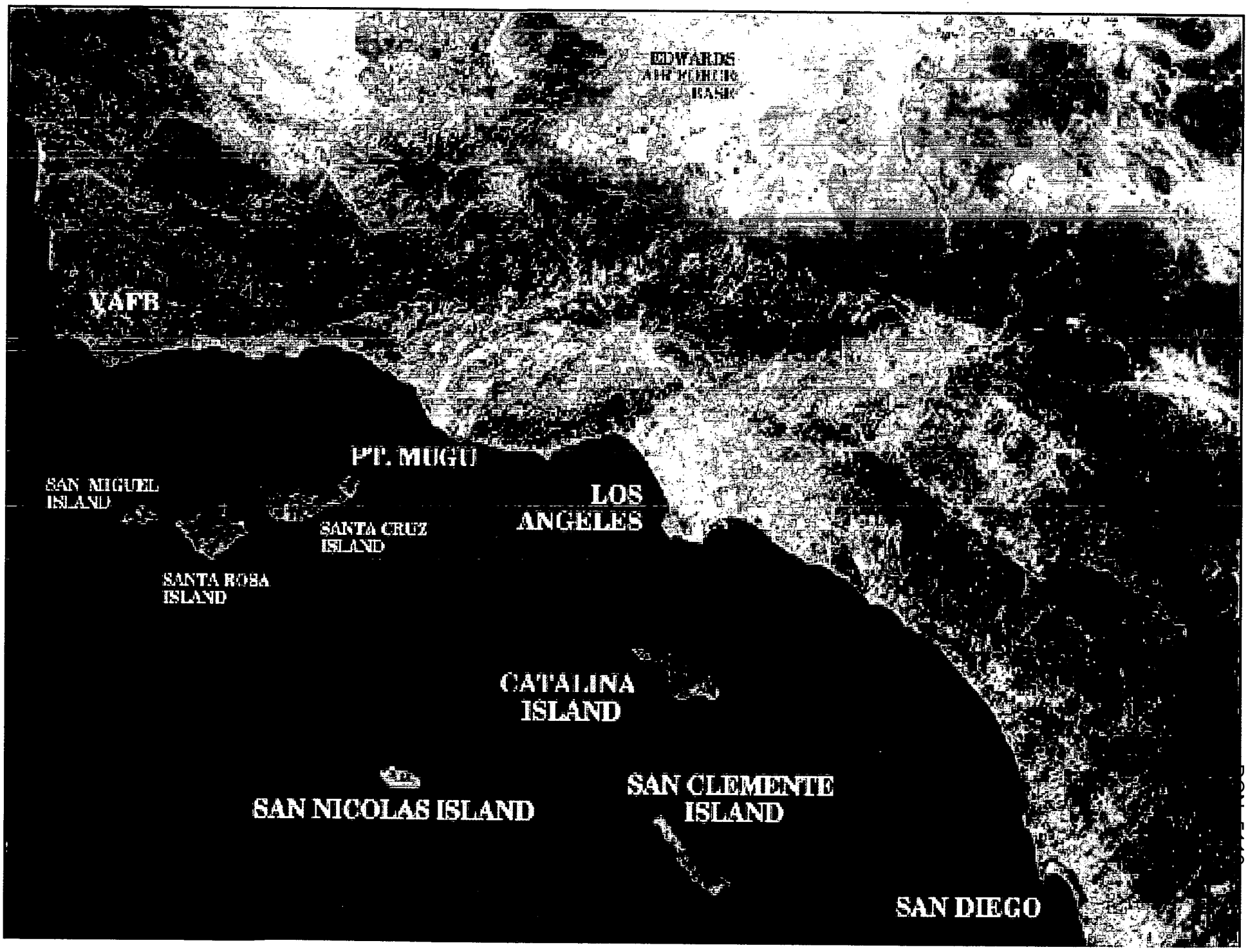
- March 1945 - Admiral Chester W. Nimitz states to Congress that he "considers the establishment of a missile test center at Point Mugu as the Navy's number one priority project".
- May 24, 1946 - President Truman approves the selection of Point Mugu as the site for the Navy's Naval Air Missile Test Center. Point Mugu was selected over 59 other US locations.

Naval Air Warfare Center
Point Mugu

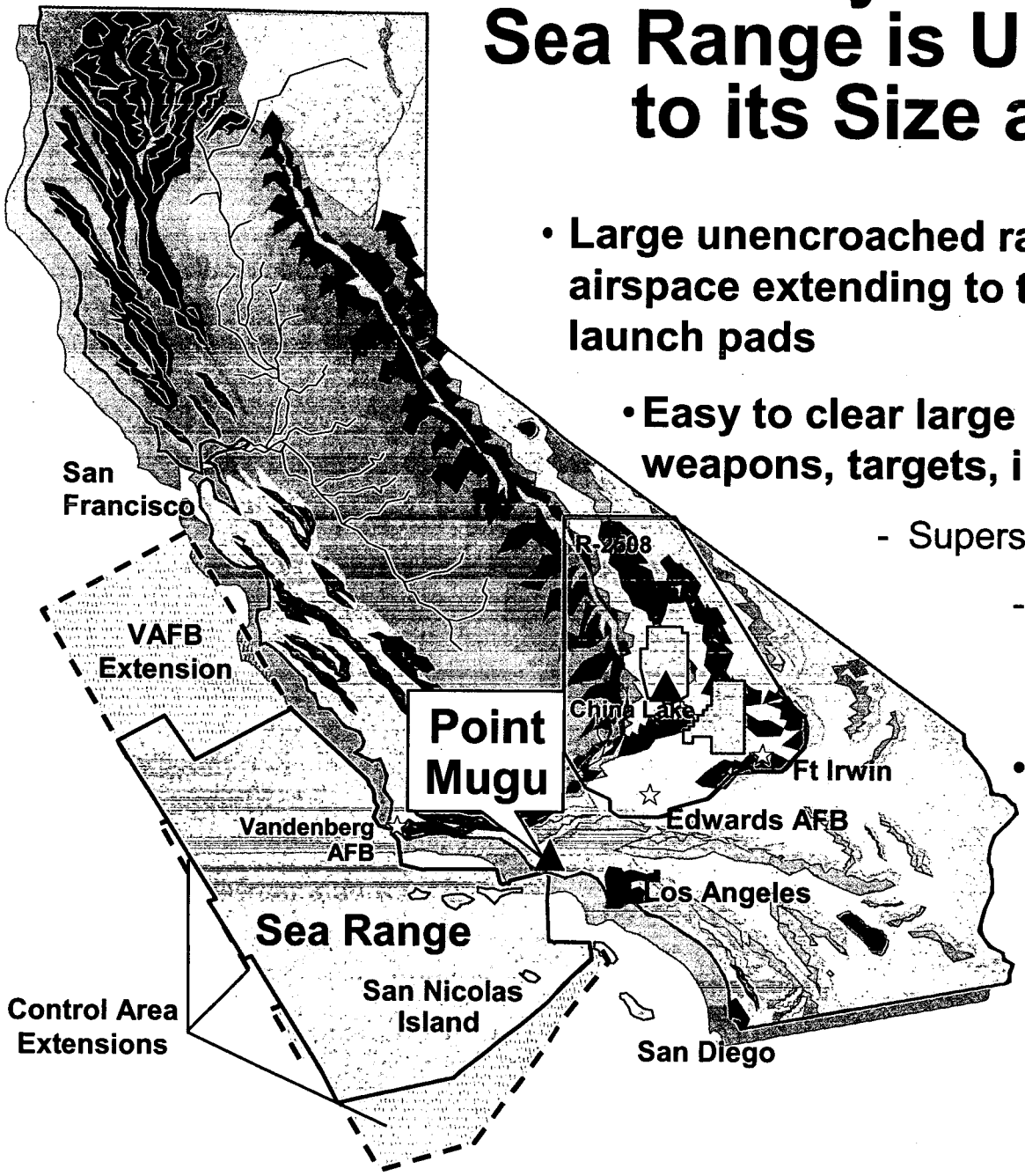
- **Point Mugu's location and geography enable the testing and evaluation of today's complex weapon systems for our Warfighters.**

- **Our technical capabilities in Weapons Test & Evaluation and Electronic Warfare are based on the integration of the geography and management, a highly skilled workforce and advanced laboratories and facilities.**

- **Naval Aviation's EW Center of Excellence for over 50 years.**


EDWARDS
AIR FORCE
BASE
VAFB
PT. MUGU
SAN MIGUEL
ISLAND
SANTA CRUZ
ISLAND
SANTA ROSA
ISLAND
LOS
ANGELES
CATALINA
ISLAND
SAN NICOLAS ISLAND
SAN CLEMENTE
ISLAND
SAN DIEGO

The Military Value of Point Mugu Sea Range is Unquestioned due to its Size and Location



- **Large unencroached range with controlled airspace extending to the runway and adjacent launch pads**
  - **Easy to clear large areas for impact of weapons, targets, intercept debris**
    - Supersonic sea skimming missiles
    - AMRAAM live fire against multiple high altitude supersonic targets
  - **Large, complex exercises**
    - Proximity to inland ranges
    - Precision Strike
    - Net Warfare Experiments
    - TRIDENT

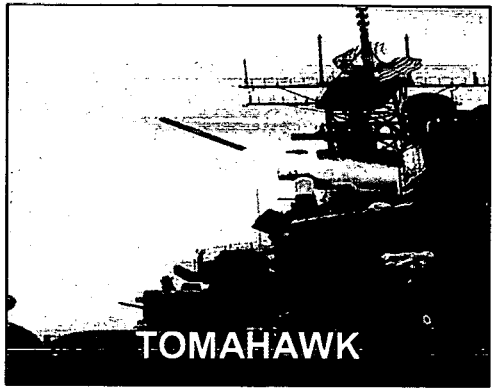
DCN: 5119

Our Capabilities

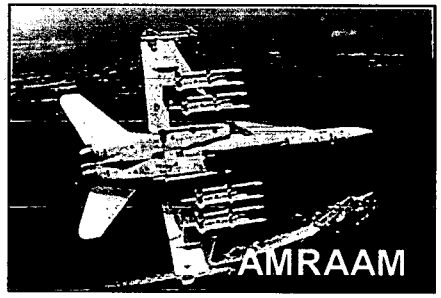
- Navy Electronic Warfare Center Of Excellence
- Largest and most capable Sea Range including worldwide deployable range support aircraft
- Targets and T&E Reliance leadership
- Navy and Joint weapons Test and Evaluation Engineering
- Weapons Sustainment

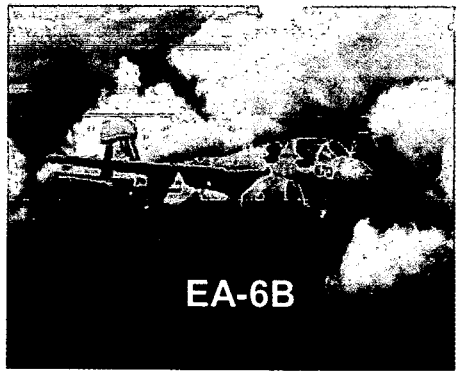
DCN: 5119

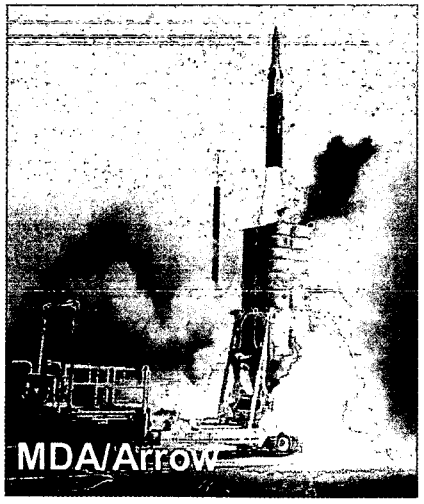
Point Mugu provides critical Warfighter support to:

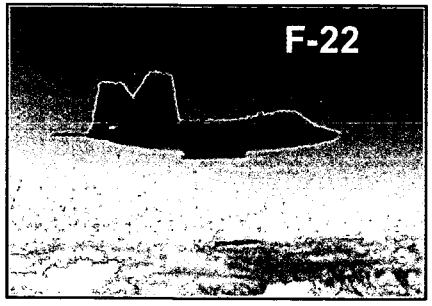


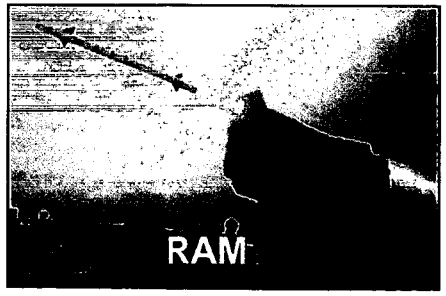
- Forces in Iraq and Afghanistan
- Deploying Forces (CSSQT, JTFEX)
- Coalition Partners
  - Spain, Germany, England, Japan, Australia
  - Closure of Vieques & AFWTF has increased this work significantly
- Joint Acquisition Programs
  - F-22, AIM-9X, JDAM/JSOW, SLAM-ER, AMRAAM, Tomahawk
  - Classified Programs











DCN: 5119

EXISTING NAVAIR AND NAWC WEAPONS DIVISION ORGANIZATIONAL CONSTRUCT

COMPETENCY ALIGNED ORGANIZATION / INTEGRATED PRODUCT TEAMS

DCN: 5119

INTEGRATED CONCEPT OF OPERATIONS FOR LIFE CYCLE SYSTEMS MANAGEMENT

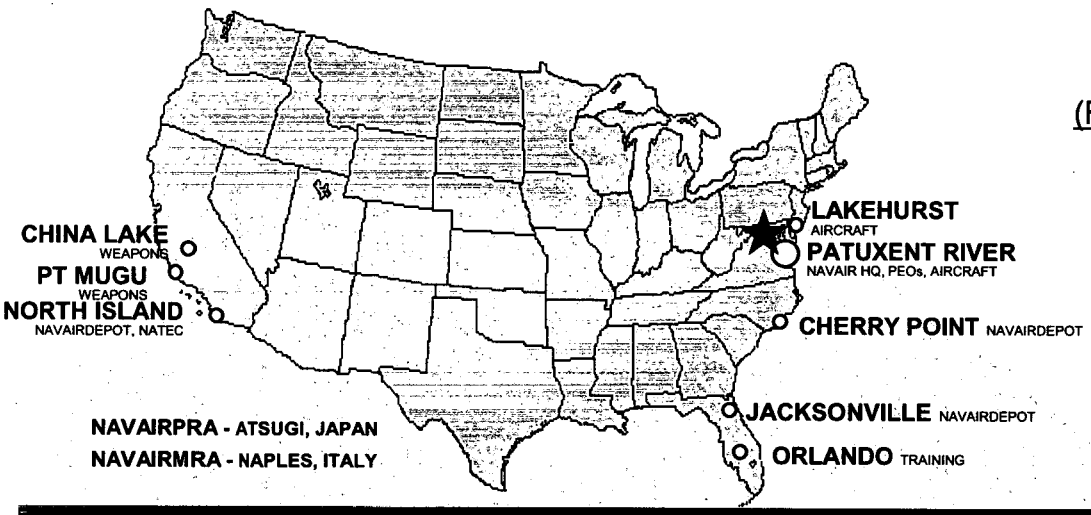
INTEGRATED PROGRAM TEAMS
(TEAM STRUCTURE TO PERFORM WORK)

- MULTI-DISCIPLINED
- FLEET / PRODUCT FOCUSED
- FULL LIFE CYCLE SYSTEM SUPPORT

COMPETENCY ALIGNED ORGANIZATION
(FORMAL STRUCTURE)

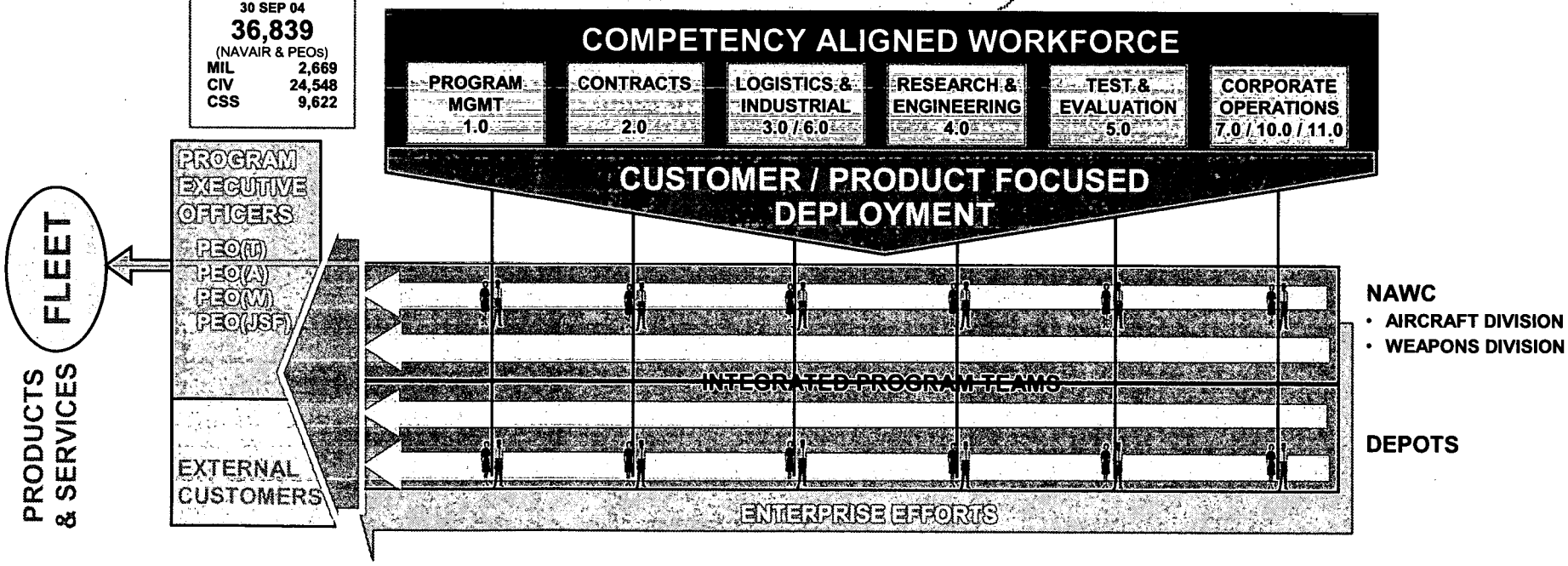
- COMPETENCIES SPAN ALL SITES
- LINKED BY COMMON ORGANIZATION & PROCESSES
- CAPABILITY / ASSET VISIBILITY

SUPPLY



DEMAND

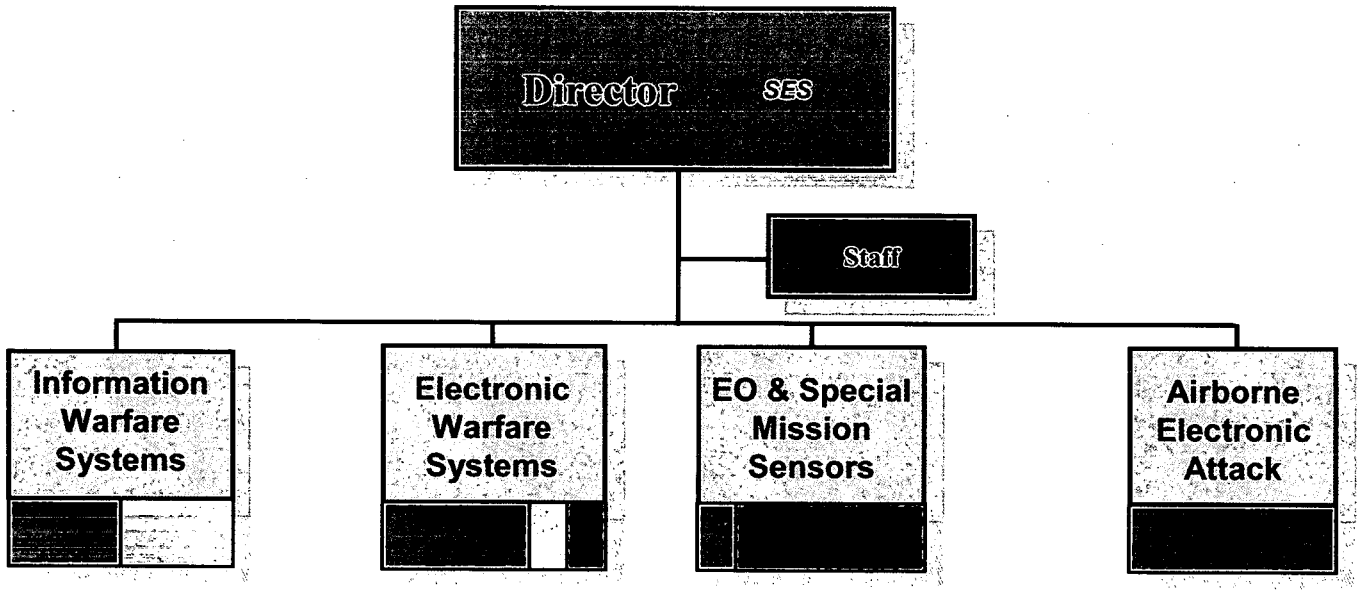
TOTAL WORKFORCE 30 SEP 04	
36,839	
(NAVAIR & PEOs)	
MIL	2,669
CIV	24,548
CSS	9,622



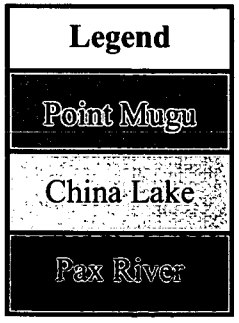
DCN: 5119

Electronic Warfare & Combat Systems

Point Mugu, China Lake, Patuxent River



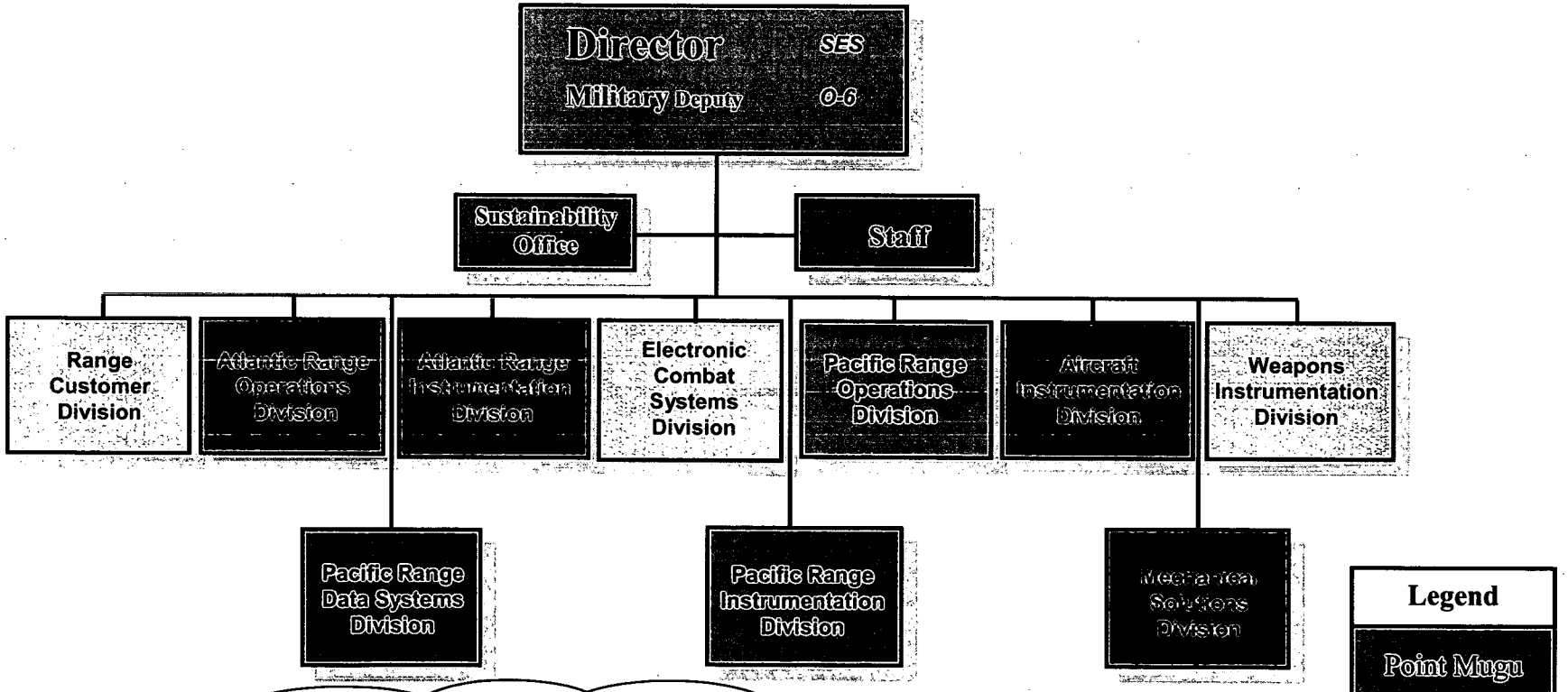
Single functional leadership oversight structure across geographic sites



DCN: 5119

Ranges Department

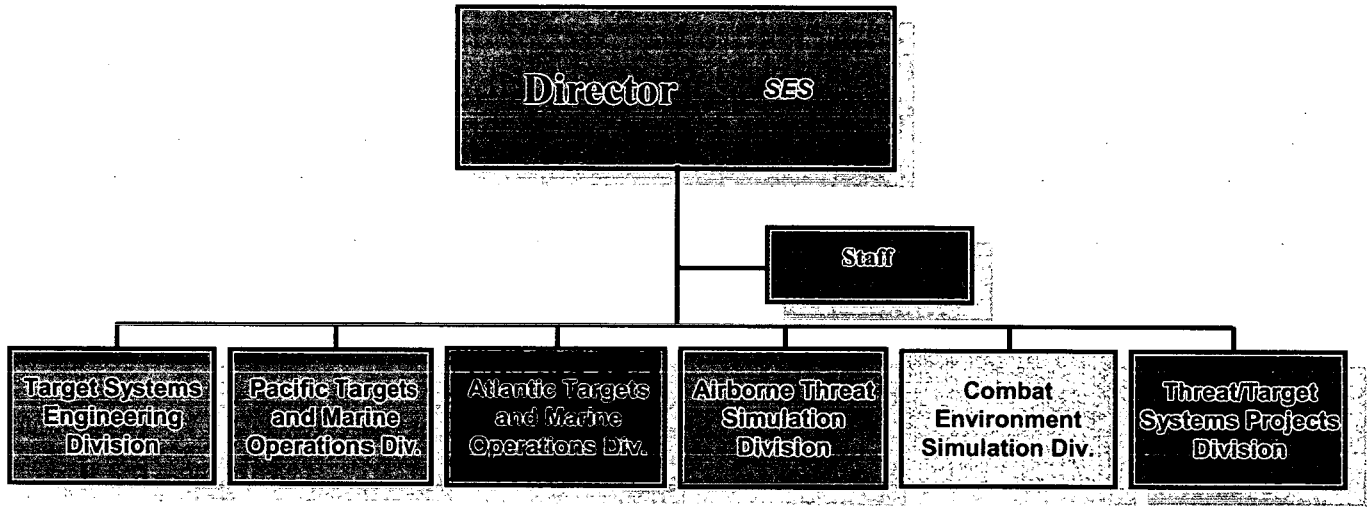
Point Mugu, China Lake & Patuxent River



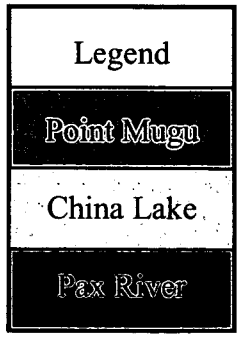
Single functional leadership oversight structure across geographic sites

DCN: 5119

Threat/Target Systems Department
Point Mugu, China Lake & Patuxent River



Single functional leadership oversight structure across geographic sites



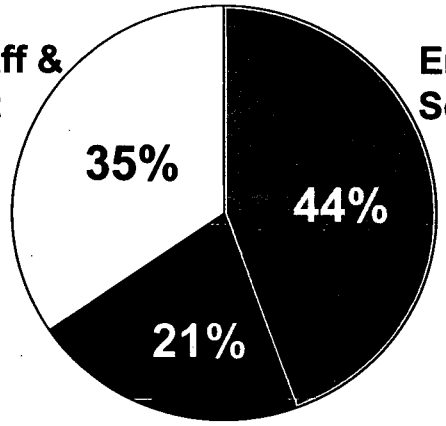
DCN: 5119

Our Workforce is Educated, Talented, and Experienced

- Total No. of Personnel:

Civ:	1,540
Mil:	261
Contractor:	444
Total	2,245*

* December 2004



- 55.0% of Civilians with 4yr (+) degree
  - 25.3% of Civilians with degrees have advanced degrees
  - 30 Civilian Test Pilot School graduates plus Military graduates

- Average years of service: 18.4 yrs
- Average age of Civilians: 49.3 yrs
- Avg. age of Retirees in FY03 and 04 59.0 yrs
- % of Civilians in FERS retirement system: 61.8%

66 Private Industry partners located within a 60 mile radius of Point Mugu

DCN: 5119

TECH 18D Summary Takeaways Weapons and Armament RDAT&E

HIGHLIGHTS

- **Clearly defined weapons and armament function traceable**
- **Need to clarify other components of recommendation to allow better implementation planning**
  - **Necessary capability remains at Point Mugu for sea range operations**

TECH 54 Summary Takeaways
Relocate Sensors, EW and Electronic RDAT&E

HIGHLIGHTS

- Scenario Transfers are traceable
- NAWC Weapons Division CAO/IPT construct supports efficient RDAT&E operations at this time through single leadership and linked labs
- TJCSG assessed enhanced operations through single siting of EW achieving a transformation and associated return on investment as delineated in COBRA analysis

SUMMARY

- NAWC Weapons Division understands and strongly supports the BRAC process goals:
  - Recommendations that facilitate transformation
  - Recommendations that deliver efficiencies
- The recommendations you are reviewing are the result of NAWC input and DoN/DoD analysis.
- Reconciliation of published BRAC Weapons and Armament recommendation data will facilitate implementation actions
  - Reconciliation of NAWC and final DoD data with retention of Sea Range functions at Point Mugu
- Your analysis will validate:
  - the risks are reasonable
  - transformation is achieved and
  - return on investment and efficiencies are substantiated

Tour Schedule

- The Remainder of today (Thursday) is TECH 54, Electronic Warfare
- Tomorrow (Friday) will be devoted to TECH 18, Weapons and Armament

DCN: 5119