NASA Goddard Space Flight Center’s Wallops Flight Facility
P-3 Orion Aircraft & Hanger Introduction

Wallops Main Base

Wallops P-3 Orion Airborne Science Research Aircraft
NASA Wallops Flight Facility
P-3 Aircraft and N-159 Hanger
NASA Wallops Flight Facility
Wallops Island, VA 23337
Phone: 757-824-1000 (base operator)

Located off of Rt. 175 Chincoteague Rd.
Directions to NASA Wallops

P-3 Orion Aircraft & Hanger Introduction

• **From Washington, DC / Baltimore, MD area**
  – Take Rt. 50 east to bay bridge
  – Cross bay bridge ($2.50 toll, cash or EZPass) and follow signs for Rt. 50 east to Salisbury/Ocean City, MD
  – Follow signs that say east Rt. 50 to Rt. 13 (also known as Salisbury by-pass)
  – While on by-pass follow signs Rt. 13 south to Norfolk, by-pass road will merge with Rt. 13 south, south of Salisbury, MD
  – Continue on Rt. 13 south and cross MD/VA state line
  – Take a left at first stop light in VA, Pizza Hut on left, (town is called Oak Hall, VA), this will be Rt. 175 Chincoteague Rd.
  – Continue on Chincoteague Rd. and turn left at first stoplight
  – Follow this road to main gate and security office

• **From Norfolk, VA area**
  – Take I-64 East to Northampton Blvd. Exit 182
  – Exit onto Northampton Blvd. (also known as Rt. 13) and follow to Chesapeake Bay Bridge Tunnel ($12.00 toll, cash or EZPass)
  – Cross Chesapeake Bay Bridge Tunnel and continue north on Rt. 13
  – Approx. 60 miles north of bridge tunnel turn right in Oak Hall, VA (Pizza Hut on right) onto Rt. 175 Chincoteague Rd.
  – Continue on Chincoteague Rd. and turn left at first stoplight
  – Follow this road to main gate and security office
Main Base vs. Wallops Island

- Wallops Flight Facility has two parts: “Main Base” and “Wallops Island”
- The Main Base is the center for most of the facility’s operations
  - Located on Rt. 175 Chincoteague Rd.
  - All experimenters will work here throughout their mission lifecycle
  - Security badges can be picked up at the main gate upon arrival
- Access to Wallops Island requires a special badge because it is the launch site for the facility’s sounding rockets or orbital launch vehicles
  - There should be no reason for island access to be needed for aircraft work, but if required access can be given
Base Access Overview

- Visitor’s badges are required for all visits and must be worn at all times.
- The following information must be provided before arrival to receive an unescorted visitor’s badge:
  - Full first name
  - Full middle name
  - Full last name
  - Citizenship
  - Affiliation (company name, school name, etc.)
  - Dates access is required
- 48 hour notice is required for U.S. citizens to receive an unescorted visitor’s badge (business day/normal hour access). Longer stays or after hour access (nights/weekends) require longer lead times.
- Minimum 30 day (depending on country) notice is required for foreign national citizens access.
- Escort badges (U.S. citizens only) are available for one day visits and can be applied for when arriving at the base. Individuals with escort badges must be escorted by a permanent badge employee at all times.
- Government issues photo ID required to receive badge and enter base.
- If visiting the facility for more than 30 days in one year then additional paperwork required.
Main Base and Wallops Island Maps

P-3 Orion Aircraft & Hanger Introduction

Cafeteria

Dormitories

P-3 aircraft hanger

Note: Paper copies of this map are available at the Security Office (Bldg. N-127)
A Few Important NASA Rules

- No walking, driving, or biking on runways or taxiways during or after work hours
- No entrance to rocket motor magazine area without escort
- No open toed shoes (i.e. sandals) in hanger or aircraft
- Long legged pants must be worn on aircraft when flying
- Strict enforcement of tool control
  - F.O.D. (Foreign Object Debris) is a BIG deal when working around aircraft
  - All experimenters should bring their own tools
  - All tools should be inventoried prior to arrival and this list kept with toolbox for inspection
  - Any lost tools could ground the aircraft until found
  - Report lost tools to maintenance personnel
- Cameras/video cameras are welcomed
Medical Screening

• WFF requires that all individuals flying on the P-3 be medically screened for flight
• A medical screening form can be provided to those individuals flying
• Return this form to:
  WFF Medical Clinic - Sheryle Pruitt
  Phone: 757-824-1766
  Fax: 757-824-1497
  Email: Sheryle.J.Pruitt@nasa.gov
• When returning the form state that it is for the P-3 aircraft and what mission you will be flying on
Public Use Aircraft Flight Disclaimer

If you will be flying on the NASA P-3 or any other public use aircraft your health and/or life insurance may not cover you during the flight in the event of a mishap. Please check with insurance providers before flying aboard any public use aircraft. Official NASA disclaimer located in NASA Aircraft Operations Management Manual NPR 7900.3B Appendix B pages 96 and 97.
P-3B Orion Aircraft

• P-3B Orion Aircraft
  • Former Navy anti-submarine and surveillance plane
  • Built by Lockheed Martin
  • Wing span – 99 feet 8 inches
  • Length – 116 feet 10 inches
  • Height – 34 feet 3 inches
  • Four T56-A-14 turboprop engines
  • Extensively modified for NASA science use
    - 2 bomb bay ports
    - Nose radome port
    - Tailcone port
    - 1 16” dia. zenith port
    - 3 nadir ports
    - 10 wing pylon mounting locations
    - 4 P-3 bubble and 3 DC-8 passenger windows
  • 115V 60Hz and 400Hz power along with 28VDC
  • Lavatory and galley on board
  • Max. altitude: 30,000 feet
  • Max. endurance time: 14 hours (~3,800 miles)
  • Payload capacity: ~14,700 lbs
  • Max. crew: 24 persons
Experimenter Rooms

- 4 experimenter rooms available
  - W162A Conference room/office space (842 sq. ft)
  - W161 Experimenter office/lounge space (568 sq. ft)
  - W160 and W146 experimenter labs (742 sq. ft each)
  - W146 contains bonded storage closet
  - Phone, fax, copier, printer and wireless internet available
  - Refrigerator/microwave/coffee pot in W161
  - Large screen TV’s and white boards available
  - Lab benches, tables, chairs available
P-3B Aircraft Contact Information

- **George Postell**
  Chief of Aircraft Office / P-3 Pilot
  Phone: 757-824-1529
  Fax: 757-824-2135
  Email: George.W.Postell@nasa.gov

- **Mike Cropper**
  Airborne Science Projects Manager
  Phone: 757-824-2161
  Fax: 757-824-2135
  Email: Anthony.Guillory@nasa.gov

- **Rick McKee/Dave Easmunt**
  P-3B Mission Managers
  Phone: 757-824-1088/1376
  Fax: 757-824-2135
  Email: Richard.McKee@nasa.gov
  David.P.Easmunt@nasa.gov

- **Mike Cropper/Martin Nowicki**
  P-3B Ops Engineers
  Phone: 757-824-2140/1754
  Fax: 757-824-1997
  Email: Michael.C.Cropper@nasa.gov
  Martin.Nowicki@nasa.gov

- **Brian Yates**
  Maintenance Lead
  Phone: 757-824-1919
  Fax: 757-824-1843
  Email: Brian.A.Yates@nasa.gov

- **Rich Rogers**
  Deputy Aircraft Office Chief / P-3 Pilot
  Phone: 757-824-1403
  Fax: 757-824-2135
  Email: Rich.Rogers@nasa.gov

- **Ed Sudendorf**
  Chief of Quality Assurance
  Phone: 757-824-1240
  Fax: 757-823-1250
  Email: Edward.W.Sudendorf@nasa.gov

- **Shane Dover**
  Aviation Safety Officer
  Phone: 757-824-2419
  Fax: 757-824-2135
  Email: Shane.Dover@nasa.gov
Local Information
Shipping and Phone Usage for Experimenters

To receive shipments on base use the following address:
NASA Wallops Flight Facility
Attn: AIRTEC Inc. c/o Brian Yates
Bldg. N-159 Room W139
Wallops Island, VA 23337
Phone: 757-824-1919

Note: If non-NASA property is begin shipped please indicate on package who property belongs too (institution/agency/company/etc.)

To use the telephone on base:
- Internal base/island calls: dial last for digits of number (ex. 2424)
- Local calls: dial “9” then 7 digit number (local calls only begin with “824-xxxx”)
- Long distance calls: dial “9” then “1” then area code plus phone number
- Dial “55” to access base-wide PA system
NASA Wallops Main Base Services

- NASA Federal Credit Union: Bldg. N-133; Mon.-Thurs. 8:30AM-3:30PM; Fri. 8:30AM-5:00PM (ATM machine located outside)
- Cafeteria: Bldg. E-2; menu phone number: x2424
  - 7AM to 9AM Breakfast
  - 11AM to 1PM Lunch
  - No Dinner
- Gymnasium with weight lifting and exercise room: Bldg. D-10
- Post Office: Bldg. E-7; 10AM-3:30PM
- Technical Library: Bldg. E-105; 8AM-4:30PM
- Rocket Club Bar: Bldg. F-3; 4:30PM to 11PM
- 24/7 fire and ambulance services
- Medical Clinic: Bldg. F-160; 8AM -4:30PM (ext. 1266)
- Base exchange: Bldg. E-2; gift shop, small convenience store
Local Food and Services

- **Just outside the main gate:** (<1/4 mi. from main gate, walking distance)
  - Royal Farms gas station and convenience store
  - Ocean Deli
  - Corner Mart gas station and convenience store
- **Oak Hall, VA:** (3 miles west of main gate on Rt. 13)
  - Several eating places (Subway, Pizza Hut, Sonics Drive In, etc.)
  - Grocery Store: Food Lion
  - Gas Station: Corner Mart and T’s Corner
- **Chincoteague, VA:** (5 miles east of main gate on Rt. 175)
  - Various local restaurants and stores along with McDonald’s
- **Pocomoke, MD:** (10 miles north of main gate on Rt. 13)
  - Various local restaurants and fast food (Arby’s, Hardee’s, McDonald’s, Friendly’s, KFC, Ruby Tuesdays, etc.)
  - Wal-Mart
  - Lowe’s
  - Radio Shack
- **Salisbury, MD:** (30 miles north of main gate on Rt. 13)
  - Nearest city with standard city services
Note: Map key on next slide
Map Key to Previous Slide

- A - Ocean Deli: sandwich shop and convenience store
- B - Royal Farms: gas station and convenience store
- C - Corner Mart: gas station and convenience store
- D - Ray’s Shanty: local seafood restaurant
- E - Pizza Hut
- F - T’s Corner: gas station and convenience store
- G - Food Lion
- H - Sonic’s Drive In
- I - Corner Mart: Gas station and convenience store
- J - Subway
- K - NASA Wallops Visitor Center and gift shop
Local Hotels and Phone Numbers

• Chincoteague Island, VA (5 miles east of Wallops on Rt. 175)
  – Comfort Suites: 757-336-7500
  – Hampton Inn and Suites: 757-336-1616
  – Best Western: 757-336-6557
  – Waterside Inn: 877-870-3434
  – The Blue Heron Inn: 800-615-6343

• Pocomoke, MD (10 miles north of Wallops on Rt. 13)
  – Holiday Inn Express: 888-400-9714
  – Days Inn: 410-957-3000
  – Quality Inn: 410-957-1300

• Onley, VA (25 miles south of Wallops on Rt. 13)
  – Comfort Inn: 757-787-7787
Local Attractions

• Eastern Shore Attractions
  – http://www.esvachamber.org/
  – http://www.esvatourism.org/home.asp
  – http://www.easternshorevirginiaportal.com/

• Wallops Island
  – 8 miles south of Main Base (~ 10 minute drive)
  – Recreation beaches open to everyone (special island badge not needed)
  – Mon.-Fri. 4:30PM to Dusk and Dawn to Dusk on Saturday and Sundays

• Chincoteague Island
  – 7 miles east of Wallops (~15 minute drive)
  – Chincoteague Fireman’s Carnival (every weekend and last full week in July, fireworks on July 4th)
  – Chincoteague Pony Swim and Auction (last Wednesday and Thursday in July)
  – Connects to Assateague Island National Seashore: http://www.nps.gov/asis/
  – http://www.chincoteague.com/

• Salisbury, Maryland
  – 30 miles north of Wallops (~45 minute drive)
  – Plenty of shopping (including a mall) and restaurants
  – Regal movie theatres
  – http://www.salisburymd.com/
Nearby Attractions/ Weekend Trips

• Ocean City, Maryland
  – 60 miles north of Wallops (~1 hour drive)
  – Beach, boardwalk with rides, shops, and restaurants
  – LOTS of options for beaches and beach activities
  – http://www.ocean-city.com/

• Hampton Roads Area of Virginia
  – 90 miles to south of Wallops (~2 hour drive)
  – Museums, clubs, beaches, historical sites, amusement parks
    • Suggested sites:
      – Virginia Air and Space Center, Hampton, VA
      – Nauticus, Norfolk, VA
      – Virginia Beach oceanfront
      – Colonial Williamsburg, Yorktown Battlefield, Jamestown Colony

• Washington D.C.
  – 155 miles northwest of Wallops (~3.5 hour drive)
  – Historical sites, museums, clubs, outdoor activities, amusement parks, and all other manner of activities associated with a heavily urban area
    • Suggested sites:
      – National Mall (Washington Monument, White House, War Memorials, Lincoln Memorial, etc.)
      – Smithsonian Museums- free and VERY good (Air and Space, Natural History, etc.)
  – http://www.washington.org