



**P-3 Orion Aircraft & Hanger Introduction**



# 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**

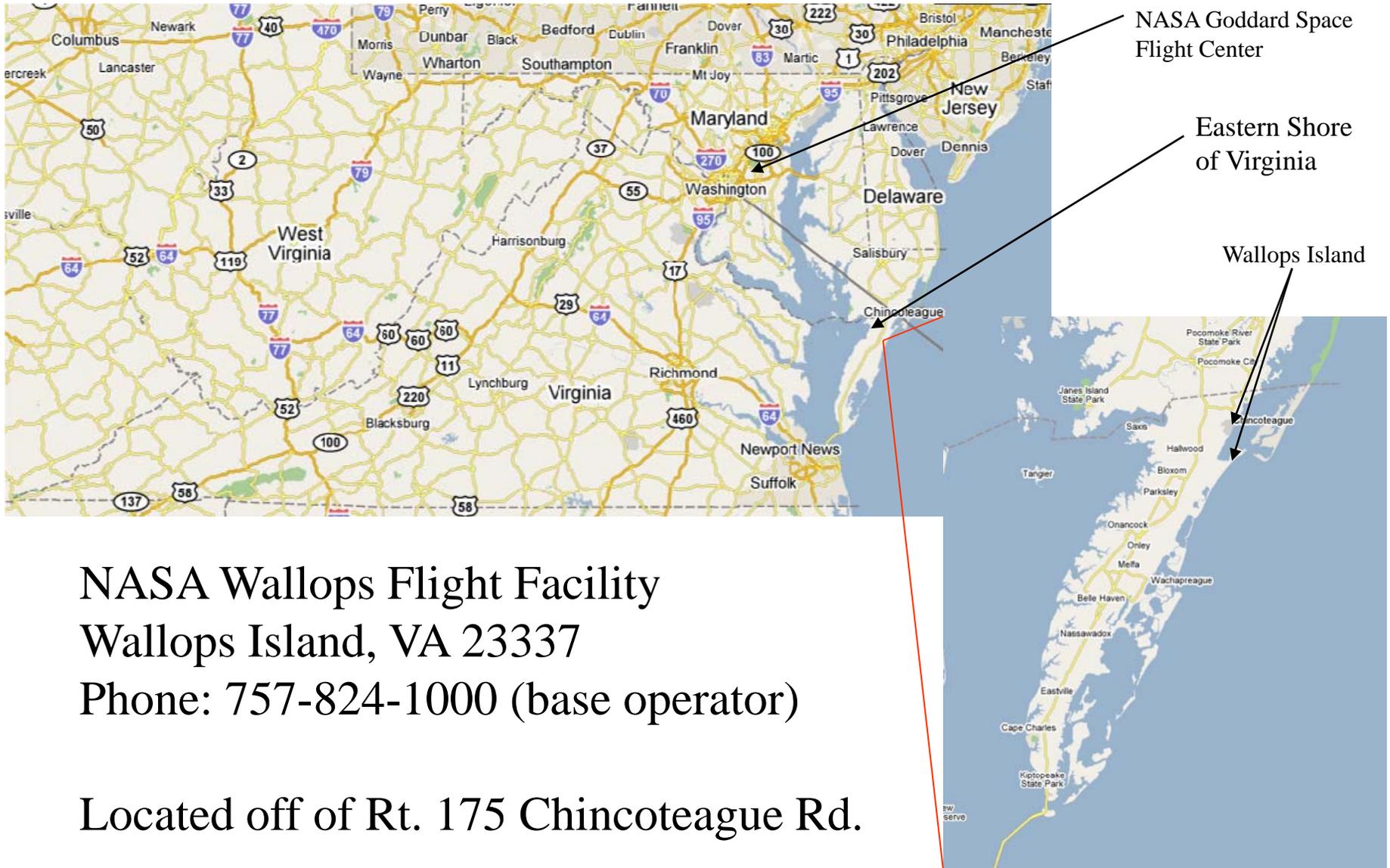
# NASA Wallops Flight Facility P-3 Aircraft and N-159 Hanger





# Wallops Island Location

## P-3 Orion Aircraft & Hanger Introduction



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

### P-3 Orion Aircraft & Hanger Introduction

- 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

### P-3 Orion Aircraft & Hanger Introduction

- 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



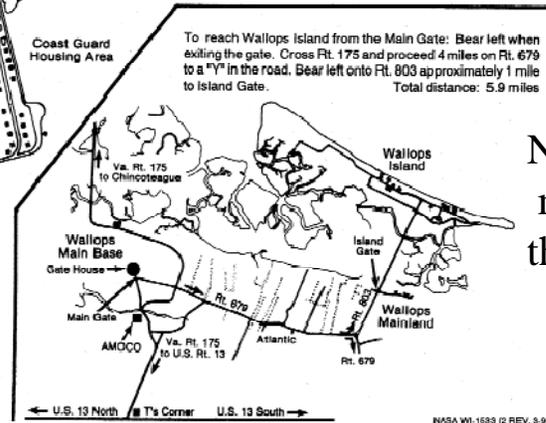
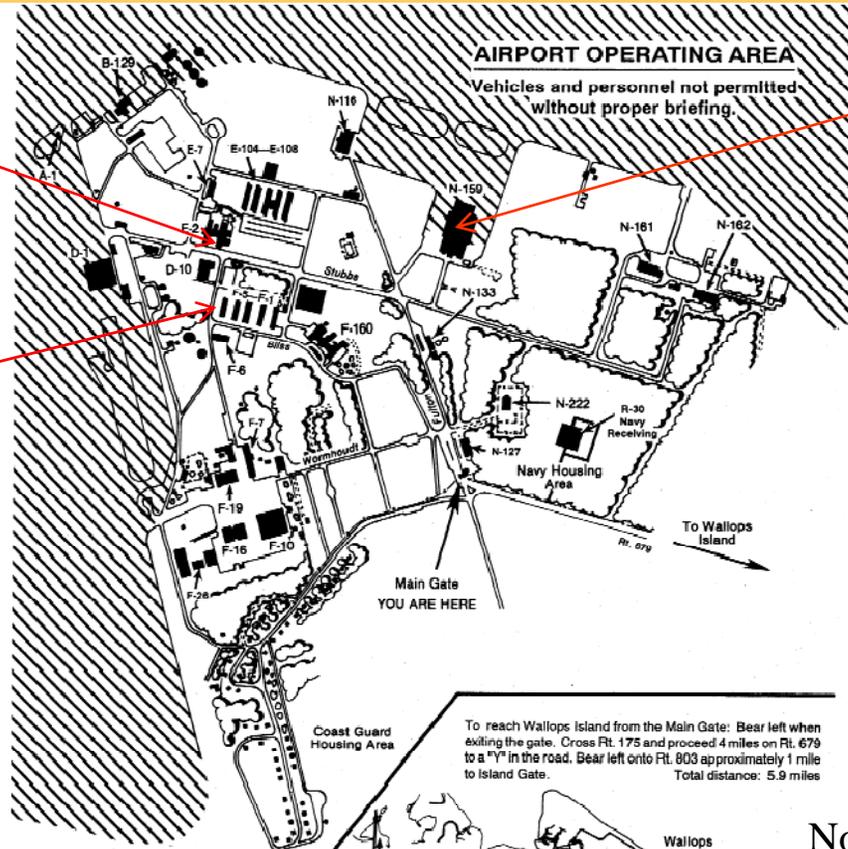
# Main Base and Wallops Island Maps

## 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)



National Aeronautics and Space Administration  
Goddard Space Flight Center  
Wallops Flight Facility  
Wallops Island, Virginia 23337

Wallops Main Base Map



## A Few Important NASA Rules

### *P-3 Orion Aircraft & Hanger Introduction*

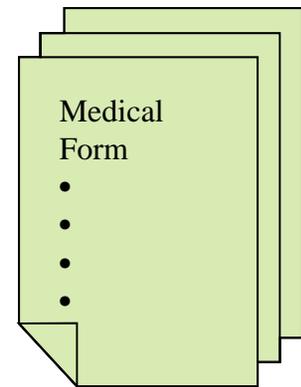
- No walking, driving, or biking on runways or taxiways during or after work hours
- No entrance to rocket motor magazine area without escort
- No open toed shoes (i.e. sandals) in hanger or aircraft
- Long legged pants must be worn on aircraft when flying
- Strict enforcement of tool control
  - F.O.D. (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

## P-3 Orion Aircraft & Hanger Introduction

- 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](mailto: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

## P-3 Orion Aircraft & Hanger Introduction

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-3 Orion Aircraft & Hanger Introduction

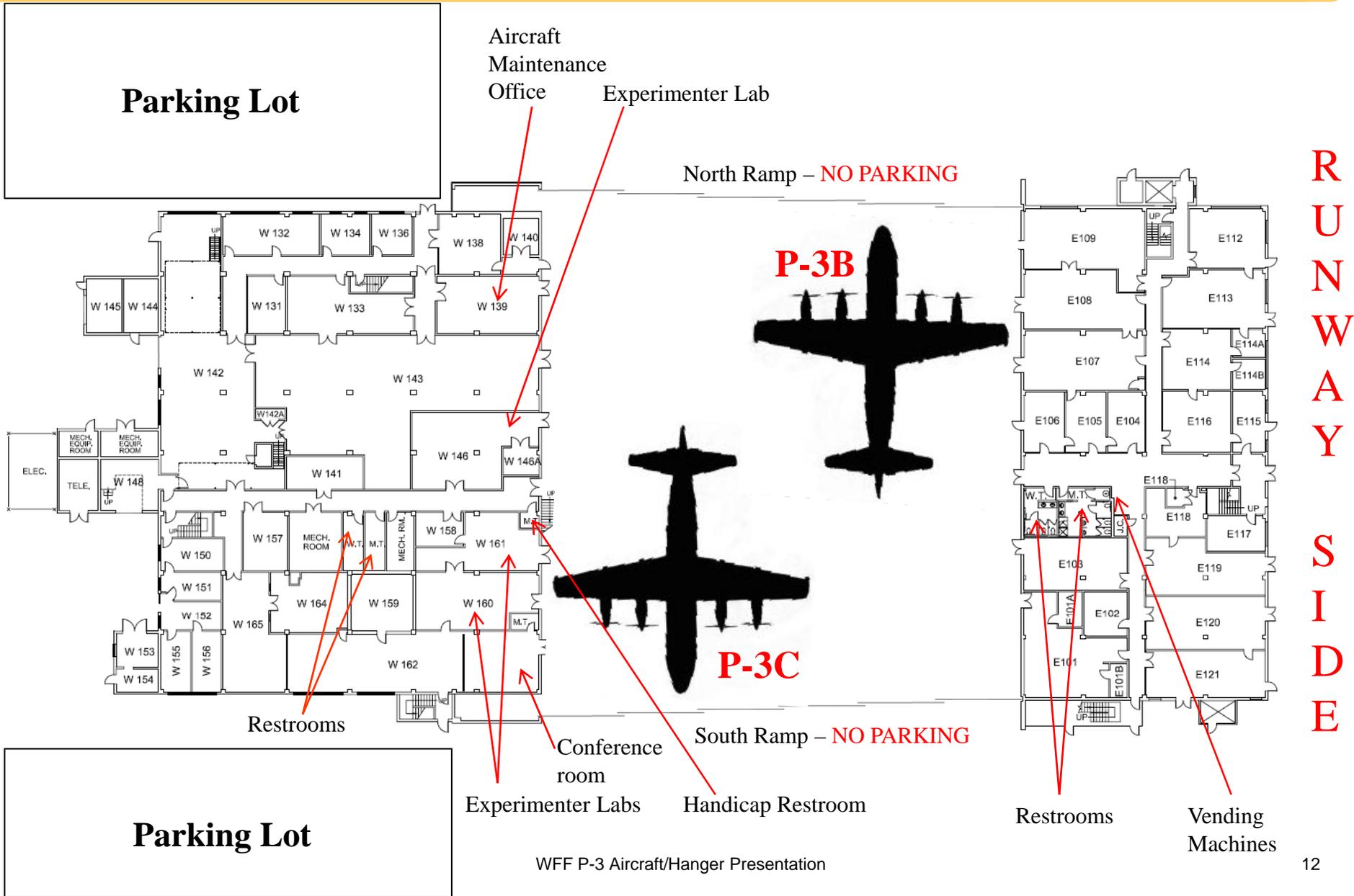
- P-3B Orion Aircraft
  - Former Navy anti-submarine and surveillance plane
  - Built by Lockheed Martin
  - Wing span – 99 feet 8 inches
  - Length – 116 feet 10 inches
  - Height – 34 feet 3 inches
  - Four T56-A-14 turboprop engines
  - Extensively modified for NASA science use
    - 2 bomb bay ports
    - 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





# N-159 Aircraft Hanger

## P-3 Orion Aircraft & Hanger Introduction





# Experimenter Rooms

## P-3 Orion Aircraft & Hanger Introduction

- 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

### P-3 Orion Aircraft & Hanger Introduction

- If you have any questions please contact the following individuals:

- **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

### P-3 Orion Aircraft & Hanger Introduction

- To receive shipments on base use the following address:

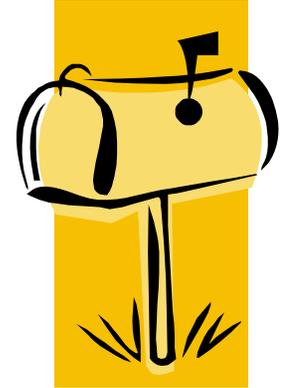
NASA Wallops Flight Facility

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

### *P-3 Orion Aircraft & Hanger Introduction*

- 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

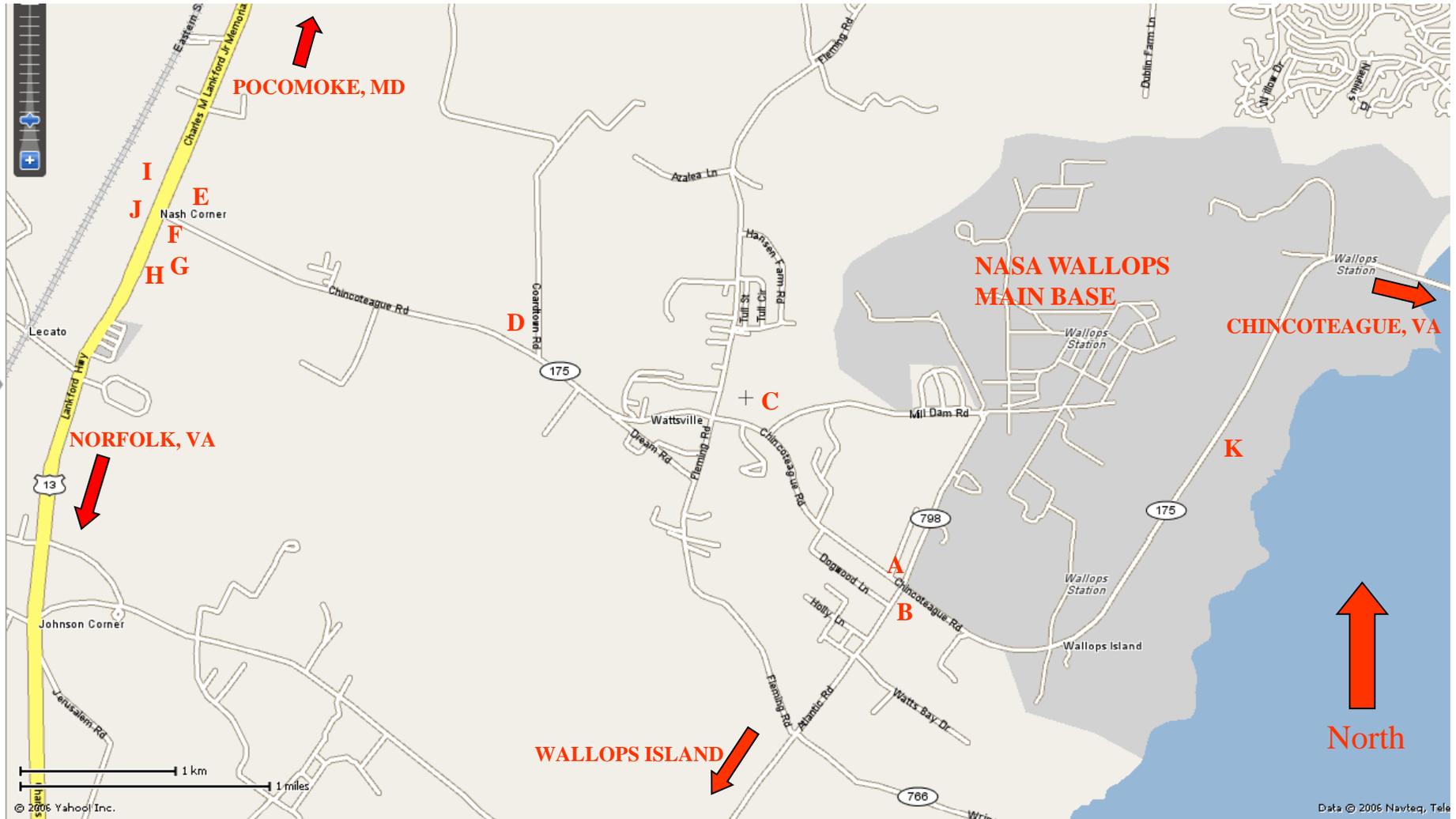
### P-3 Orion Aircraft & Hanger Introduction

- **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
  - <http://www.chincoteague.com/>
- **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
  - <http://www.pocomoke.com/>
- **Salisbury, MD:** (30 miles north of main gate on Rt. 13)
  - Nearest city with standard city services
  - <http://www.salisburymd.com/>



# Local Business Locations

## P-3 Orion Aircraft & Hanger Introduction



Note: Map key on next slide



## Map Key to Previous Slide

### P-3 Orion Aircraft & Hanger Introduction

- 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



Chincoteague Island, VA



# Local Hotels and Phone Numbers

## P-3 Orion Aircraft & Hanger Introduction

- 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

### *P-3 Orion Aircraft & Hanger Introduction*

- 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 4<sup>th</sup>)
  - 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

### P-3 Orion Aircraft & Hanger Introduction

- 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
  - <http://www.hamptonroads.com/travel/visitors/>
- 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>

