

Fifty years ago, on March 9, 1967, an RC-47 of the 361st Reconnaissance Squadron (Recon Sqdn) based at Nha Trang Airport, Republic of Vietnam, took off at 1:55 pm local time on a routine seven-hour airborne radio direction finding (ARDF) mission in Binh Dinh Province, about 125 air miles north of Nha Trang. Aboard the Gooney Bird, tactical callsign TIDE 86, were four 361st Recon Sqdn personnel and three backenders from Detachment 1, 6994th Security Squadron. When the aircraft failed to return to Nha Trang as scheduled around 9:00 pm, a "communications search" was initiated—the mission might have diverted to an alternate field without being able to notify Nha Trang. When this search proved negative, the aircraft and crew were declared missing at about 11:30 pm

Low ceilings and poor visibility in and near the mission search area, a zone encompassing some 5,600 square nautical miles, kept initial search efforts grounded. Two days later, at around 8:10 AM on March 11, an O-1 Bird Dog FAC spotted the wreckage. A USAF Air Force Accident & Security Team was airlifted to the crash site by UH-1F helicopter after the site was secured by an Infantry company of the 1st Air Cavalry Division. The USAF recovery team consisted of the 361st Recon Sqdn Operations Officer, the 460th Tactical Reconnaissance Wing Flight Safety Officer and Flight Surgeon, and two NCOs from Detachment 1, 6994th Security Squadron: TSgt Thomas Echols (operations) and TSgt Donald A. "Bernie" Bernard (maintenance). The team remained on the ground for an hour and twenty minutes. The recovered remains of the crewmembers were taken to the 8th Field Hospital at Nha Trang. Also recovered were a portion of the navigator's work chart and sections of printer tapes showing the position of the aircraft (as determined by the Doppler) and the relative bearings of tar-

gets being worked at the time. Fragments of target activity logs and ARDF operator notes were also salvaged.

There are pages and pages of reports describing what happened—or what might have happened—after TIDE 86's routine departure, but the most specific details are included in the classified operational reports generated by Detachment 12, 38th Aerospace Recovery and Rescue Squadron (ARRS) and the 361st Recon Sqdn after the aircraft was reported overdue. Detachment 1, 6994th Security Squadron personnel provided ARDF data recovered at the crash site which was used to expand upon the 361st Reconnaissance Squadron summary report dated March 13, 1967. This and subsequent reports were manually typewritten, following a set format. These reports also include raw data provided in a free-flowing, somewhat non-standard format. Depending on the report, local or "Zulu" (GMT) time may appear. The remainder of this narrative has been pieced together from the data on those printer tapes and operator comments as noted in the reports described above. All times cited in the various reports have been converted to local (Nha Trang) time (GMT+8 hrs) in 12-hour clock format.

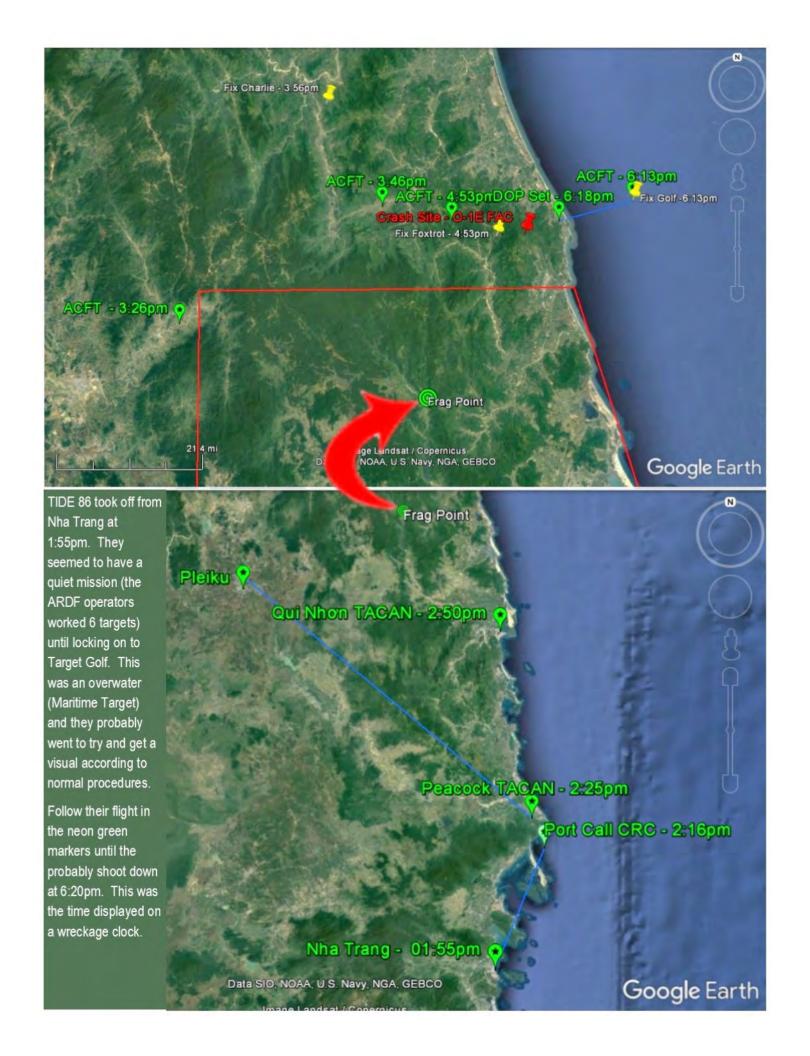
To follow the actual (and speculated) flight path of Tide 86 from beginning to end requires an understanding of geographical locations provided in (a) conventional latitude and longitude (Lat/Long) format, (b) the Universal Transverse Mercator (UTM) grid system, and (c) the military's Tactical Air Navigation system (TACAN.)

At 2:16 pm, twenty-one minutes after take-off, *Port Call* Control & Reporting Center (CRC) radar at Nha Trang showed TIDE 86 headed north-bound on a radial of 022° at 36 nautical miles (nm). The mission was handed off to *Peacock* CRC (Pleiku) which made the last contact with TIDE 86 at 2:25 pm. At that time, the aircraft was on the 130° radial for 102 nm off Pleiku TACAN, still headed north along the coastline. Both positions reported by the CRCs show the aircraft in a normal flight pattern north towards Qui Nhon and the assigned frag area, centered at UTM coordinates BR 6085.

Approximately one hour into the flight (2:50 pm), the navigator probably completed a Doppler calibration set ("Dop set") over the Qui Nhon TAC-AN, about 90 air miles due north of Nha Trang and still roughly 35-40 nm south of the frag point. Recovered printer tapes showed that the ARDF operator "locked on" target Alpha at 3:26 pm, followed by Bravo at 3:46 pm, but apparently neither target was fixed. Target Charlie was worked beginning at 3:48pm, resulting in a fix at 3:56 pm. The aircraft standoff range to Charlie was less than 15 nm. No printer tapes were recovered for targets Delta and Echo, but Foxtrot was fixed at 4.53 pm, with the aircraft standoff range about 6 nm. The last target, Golf, was initially locked on at 5:30 pm, with the last line of position (LOP) and subsequent fix being made about 30 minutes later. The fix point was over water, about 8 nm off shore. In accordance with Market Time operating procedures, the crew probably headed overwater to attempt a visual sighting of the transmitting vessel. Based on printer tapes and recovered operator comments, the 1967 report writers concluded that the aircraft was in the vicinity of the target Golf fix point (G-5) at 6:13 pm. (This writer assumes that the G-5 identification means there were at least 5 LOPs used to triangulate the fix.) The validity of G-5 is important because this fix is used as a reference point (like a TACAN transmitter location) for determining subsequent aircraft positions during the seven minutes that elapsed between TIDE 86's departure from the G-5 fix point vicinity (6:13 pm) and 6:20 pm, the time showing on an aircraft clock found in the wreckage.

The 361st Recon Sqdn summary report offers this supposition: After fixing target Golf and performing, or attempting to perform, visual reconnaissance of the target vessel until around 6:13pm, TIDE 86 turned directly to shore to "shoot" a Dop set on a prominent landmark or any routinely used Dop set point. This Dop Set point was projected to be 250° at 10 nm from G-5. (Google Maps places that marker almost exactly in the middle of a road/railroad intersection.) This presumed Dop set point was then used as a reference point for locating the crash site, but the radial and distance measurements as reported more closely match the fix point for target Foxtrot than the actual crash site. Finally, the reports list four separate crash site coordinates. The Det 12, 38th ARRS report citing the Lat/Long coordinates reported by the O-1 FAC match exactly the UTM coordinates in the 361st Recon Sqdn report. The UTM coordinates reported in the Jan-Jun 1967 Detachment 1, 6994th Security Squadron history plot on the map about 300 meters from the FAC-reported location. The 6994th Security Squadron history for Jan-Jun 1967 references UTM coordinates that plot about 10 nm due north of the other reported coordinates.

Tom Echols participated in a USAFSS headquarters debriefing soon after returning from the crash site, but has remained silent about that episode since. As part of this 50th Anniversary tribute to TIDE 86 and those crewmembers lost, Chief Master Sergeant (retired) Echols has written a new personal accounting of the Accident & Security Team experiences. His story will be the feature article in the next EC-47 History Site Newsletter, slated for release in mid-March 2017. We are indebted to Chief Echols and hope his thoughts and recollections will help all of us better remember the 361st Recon Sqdn and Det 1, 6994th Security Squadron crewmembers that "gave their all" 50 years ago this month.



In Memoriam

Ivel Doan Freeman Major 361st TEWS
Leroy Preston Bohrer Major 361st TEWS
Roger Paul Richardson Captain 361st TEWS
Prentice Fay Brenton SSgt. 361st TEWS
Raymond F. Leftwich TSgt. Det.1 6994th SS
Charles D. Land A1c Det.1 6994th SS
Daniel C. Reese A1c Det.1 6994th SS

MAJOR IVEL DOAN FREEMAN: 361st Reconnaissance Squadron. Wife: Mrs. Bettie R. Freeman, Lincoln, Nebraska. Children: Leonard K. Freeman, 17; Andrea L. Freeman, 5. Awards: Air Force Commendation Medal, 1 Oak Leaf Cluster; Air Force Outstanding Unit Award; Good Conduct Medal; National Defense Service Medal, 1 Bronze Service Star; Air Force Longevity Service Award, 3 Bronze Oak Leaf Clusters; Vietnam Service Medal; Air Medal, 3 Oak Leaf Clusters.

MAJOR LEROY PRESTON BOHRER: 361st Reconnaissance Squadron. Wife: Mrs. Rugh D. Bohrer, Sunset, Utah. Children: Carson F. Bohrer, 13; Lorraine Bohrer, 12; Jacqueline Bohrer, 11; Susan Bohrer, 8; and Betty Bohrer, 5. Mother: Mrs. Ethel L. Bohrer, Arlington, Virginia. Awards: Air Force Outstanding Unit Award, 1 Oak Leaf Cluster; World War II Victory Medal; National Defense Service Medal, 1 Bronze Service Star; Air Force Longevity Service Medal, 2 Bronze Oak Leaf Clusters; Small Arms Expert Marksmanship Ribbon; Armed Forces Expeditionary Medal; Vietnam Service Medal; Air Medal, 3 Oak Leaf Clusters.

CAPTAIN ROGER PAUL RICHARDSON: 361st Reconnaissance Squadron. Wife: Mrs. Barbara E. Richardson, Denver, Colorado. Children: Russell P. Richardson, 8; Elizabeth G. Richardson, 6; and Charles N. Richardson, 1 1/2. Parents; Mr. and Mrs. Russell B. Richardson, Great Falls, Montana. Awards: Good Conduct Medal; Air Force Longevity Service Award, 1 Oak Leaf Cluster; National Defense Service Medal; Vietnam Service Medal; and Air Medal, 3 Oak Leaf Clusters.

SSGT PRENTICE FAY BRENTON: 361st Reconnaissance Squadron. Wife: Mrs. Helen J. Brenton, North Hampton, New Hampshire. Mother: Mrs. Lucy V. Thornton, Evansville, Indiana. Awards: American Campaign Medal; World War II Victory Medal; National Defense Service Medal, 1 Bronze Star; Asiatic Pacific Campaign Medal, 1 Bronze Star; Presidential Unit Citation, 1 Bronze Star; Navy Unit Citation; Air Force Longevity Service Award, 2 Bronze Oak Leaf Clusters; Good Conduct Medal; Air Force Good Conduct Medal; Vietnam Service Medal; Vietnam Campaign Medal; and Air Medal, 3 Oak Leaf Clusters.

TSGT RAYMOND FRANCIS LEFTWICH: Det. 1, 6994th Security Squadron. Wife: Mrs. Betty Carolyn Leftwich, San Angelo, Texas. Mother: Mrs. Francis Veratta Duvall, Grand Junction Colorado. Awards: American Campaign Medal; Asiatic Pacific Campaign Medal; Philippine Liberation Ribbon, 2 Bronze Service Stars; World War II Victory Medal; Army of Occupation Medal, Germany; National Defense Service Medal, 1 Bronze Service Star; Air Force Outstanding Unit Award; Good Conduct Medal, 3 Bronze Loops; Air Force Good Conduct Medal; Air Force Longevity Award, 4 Bronze Loops; Small Arms Expert Marksmanship Ribbon; Vietnam Service Medal and Air Medal.

A1C CHARLES DWAYNE LAND: Det. 1 6994th Security Squadron. Wife: Mrs. Donna Marie Land, Denver, Colorado. Parents: Mr. & Mrs. David Samuel Land, Dayton, Ohio. Awards: Air Force Outstanding Unit Award; Small Arms Expert Marksmanship Ribbon; Air Force Good Conduct Medal; Vietnam Service Medal; and Air Medal, 2 Oak Leaf Clusters.

A1C DANIEL CURTIS REESE: Det. 1 6994th Security Squadron. Wife: Mrs. Sondra Carole Reese, Seat Pleasant, Maryland. Father: Mr. Daniel Russell Reese, Seat Pleasant, Maryland. Grandmother: Mrs. Daisy Reese, Bluefield, Virginia. Awards: National Defense Service Medal; Small Arms Expert Marksmanship Ribbon; Vietnam Service Medal; and Air Medal.

Joe Martin, May 1, 1998 ec47 archives



