

CASE REPORT

CRIMINALISTICS; ANTHROPOLOGY

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Integrated DNA and Fingerprint Analyses in the Identification of 60-Year-Old Mummified Human Remains Discovered in an Alaskan Glacier

ABSTRACT: This report describes the identification of a merchant mariner who perished in 1948 when Northwest Airlines Flight 4422, a DC-4 carrying 24 seamen and six crew members crashed into Mount Sanford, Alaska. Fifty-one years later, a human forearm and hand were found close by the wreckage of the plane, prompting identification efforts using DNA and fingerprints. There were significant challenges to both the fingerprint and DNA analyses. The hand was badly desiccated, making fingerprint friction-edge detail almost invisible and the remains had been embalmed upon discovery, making DNA amplification difficult. We present the results of an interdisciplinary approach that successfully addressed these challenges and ultimately led to the identification of the remains. These efforts relied on efficient fingerprint rejuvenation and imaging techniques that improved print resolution, as well as new DNA extraction techniques optimized for aggressively embalmed remains.

KEYWORDS: forensic science, fingerprint analysis, low copy number STR, mitochondrial DNA, ancient DNA, embalming, interdisciplinary, forensic genealogy, merchant mariners

At 9:14 P.M. on March 12, 1948, Northwest Airlines Charter Flight 4422, en route from Shanghai to New York City, crashed in the Wrangell Mountains of Alaska. The Douglas DC-4 was carrying six crew members and 24 seamen returning home after a mission on the oil tanker *SS Sasser* of the Overseas Tankship Corp. After a fuel stop, the plane took off from Anchorage, Alaska at 8:12 P.M. At 9:03 P.M., the plane was spotted flying at 11,000 feet above the Gulkana Civil Aeronautics Administration range station, 159 miles northeast of Anchorage. Eleven minutes later, the plane impacted Mount Sanford, a 16,237-foot peak located 200 miles northeast of Anchorage. The next day, aeronautic officials flew over the crash site. From the air, they observed the wreckage lying at an elevation of 8500 feet on the west slope of the mountain, below a section of smoke-blackened snow and ice at 11,000 feet that likely corresponded to the point of impact. A rescue operation

was ruled impossible because the scene of the accident was inaccessible by air. No ground search was initiated as it was determined that the active glacier would bury the wreckage in a matter of days. However, a positive identification of the wreckage as that of Flight 4422 was made by the Northwest Airlines insignia on the plane's vertical stabilizer observed from the air.

Fifty-one years later, the wreckage was rediscovered by Kevin McGregor and Marc Millican, two former United States Air Force pilots. In 1997, after three unsuccessful expeditions, the two men finally located pieces of the plane, including a radial engine and a propeller at an altitude of 6200 feet. Two years later, they returned to the site and discovered a frozen human left forearm and hand amid the wreckage (1,2).

Alaskan State Troopers recovered the remains and delivered them to the Office of the Medical Examiner in Anchorage, Alaska. X-rays of the arm showed extensive damage to the bones (Fig. 1). Fingerprint images were also taken of the hand and were compared to the fingerprints of 22 of the 24 merchant mariners. The mariners' fingerprints had been collected at the time of their enlistment and archived at the National Maritime Center in Arlington, VA. Unfortunately, in 1999 no match was obtained, most likely because of the difficulty of resolving details from the fingerprints of the damaged remains in combination with the poor quality of the enlistee fingerprint cards. Following these examinations, the remains were aggressively embalmed by submersion for 5 days in a solution composed of Metasyn Normal (20 index), Metalflex, Restorative (Dodge Chemical Company, Cambridge, MA), and water (Fig. 2).

The effort to identify the flight 4422 remains was first revived in 2002 when the hand and forearm were sent to a commercial

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