

NWA 1950

Northwest Africa 1950 (NWA 1950)



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut



Photo © Bruno Fectay & Carine Bidaut

THE METEORITICAL BULLETIN
E-mail Announcement 88-2, October 23, 2003

Sara Russell, Editor (sara.russell@nhm.ac.uk)
Jutta Zipfel, Assoc. Ed. for Northwest Africa
(zipfel@mpch-mainz.mpg.de)

Luigi Folco, Assoc. Ed. for Africa (folco@unisi.it)
Monica Grady, Assoc. Ed. for Oman (M.Grady@nhm.ac.uk)
Rhian Jones, Assoc. Ed. for the Americas (rjones@unm.edu)
Tim McCoy, Assoc. Ed. for Antarctica (mccoy.tim@nmnh.si.edu)
Jeffrey N. Grossman, Assoc. Ed. for Web (jgrossman@usgs.gov)

Northwest Africa 1950

Morocco

Found 2001 January and March

Martian meteorite (lherzolititic shergottite)

Two stones (414 and 383 g) were found in the Atlas mountains (Morocco) in 2001 January and March. The exact location of find is unknown. The meteorite is a cumulate peridotitic rock consisting of olivine (~ 55 vol%), low and high-Ca pyroxenes (~ 35 vol%) and plagioclase glass (~ 8 vol%). Accessory minerals include phosphates (merrillite), chromite and spinels (inclusions in olivines and pyroxenes), sulfides (pyrrhotite), and a glass rich in potassium. The igneous texture is very similar to that of the ALHA77005.

Classification and mineralogy (Ph. Gillet, ENSL, J.A. Barrat, UAng, M. Bohn, Ifremer): pyroxenes are pigeonite, En78Fs19Wo2-En60Fs26Wo14, and augite, En53Fs16Wo31-En45Fs14Wo41; maskelynite ranges from An57Ab41Or1 to An40Ab57Or3. The key element weight-ratios FeO*/MnO are close to 30 for pigeonite and close to 50 for olivines. Geochemistry: REE pattern similar to that of ALHA77005 but with higher values. Specimens: type specimen, 20 g, ENSL; main mass, Fectay.

Return to the [Mars Meteorite Home Page](#)

Please direct questions and comments about this home page to
Ron Baalke
Jet Propulsion Lab

ron@jpl.nasa.gov

