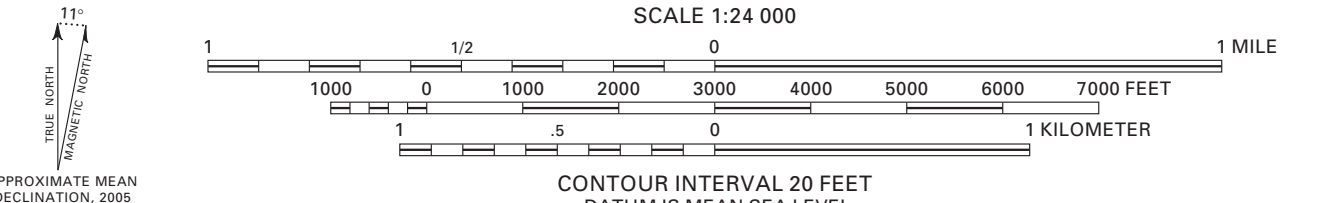


Base from U.S. Geological Survey, Kilauea, 1982 Projection and 10,000-foot grid ticks: Hawaii coordinate system, Zone 1 (Transverse Mercator), Clarke spheroid 1886



Geology mapped in 1990-94 Manuscript approved for publication, October 8, 1997

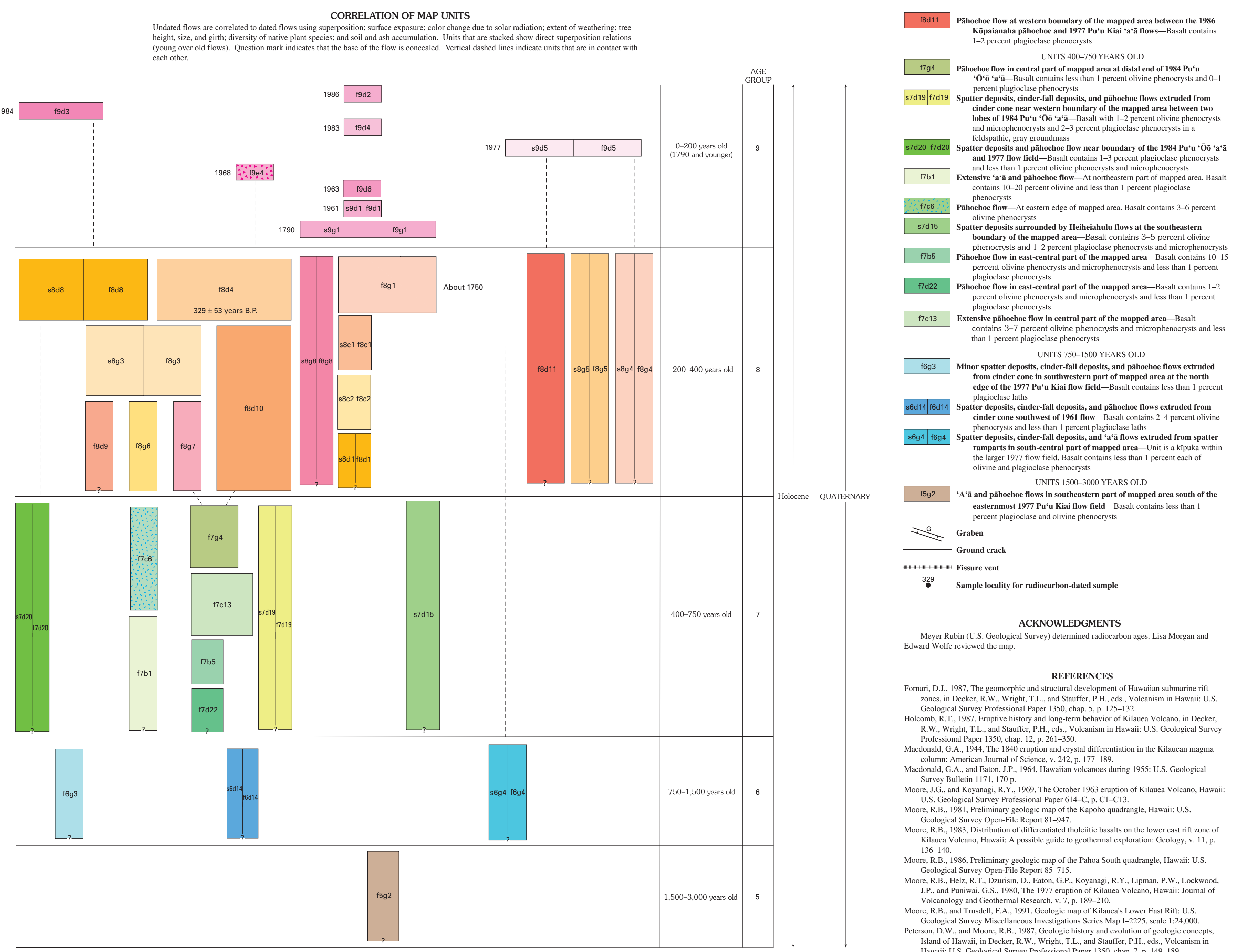


Table with columns for Unit Symbol, Description of Map Units, and Age Group. It details various flow units like f8d3, f8d4, f8g1, etc., and their geological characteristics and ages.

INTRODUCTION Kilauea is an active shield volcano in the southeastern part of the Island of Hawaii... The middle east rift zone (MERZ) map includes about 27 km² of the MERZ and shows the distribution of the products of 37 separate eruptions during late Holocene time.

Rocks of historic age (age group 9) cover an estimated 28 percent of the mapped area. Eruptions occurred in 1790, 1961, 1963, 1968, 1983, 1984, and 1986. Soil cover is thin (<0.05 m) and surficial glass is common.

Table with columns: Unit, Age, Quality, Field, Lab, Age, S.D., Weighted, S.D., Age, Quadrangle, Latitude, Longitude, Elev., Source. It lists radiocarbon dates for various units.

Geographic Classification of Tholeiitic Basalt All rocks in the mapped area are tholeiitic basalt. Rocks have been placed in one of seven categories, a through g, based on relative abundances of olivine and plagioclase phenocrysts.

GEOLOGIC MAP OF THE MIDDLE EAST RIFT GEOTHERMAL SUBZONE, KĪLAUEA VOLCANO, HAWAII

By Frank A. Trusdell and Richard B. Moore 2006

