

# Conversion algorithms for the CalCOFI station grid: errata

Errata by Robert Thombley (May 30, 2006)

As written, the algorithm for conversion from CalCOFI grid coordinates to geographical coordinates results in correct latitude values, but incorrect longitude values. Lines 1 and 3 (pp 137) are incorrect as published. Line 1 should have 34.25 changed to 34.15, the reference latitude. It should then read:

$$1. \text{RLA} = 34.15 - 0.2 * (\text{PLN} - 80) * \text{COS}(30) \quad (1)$$

Line 3 should have RLA replaced with PLA. It should then read:

$$3. \text{L1} = (\text{MCTR}(\text{PLA}) - \text{MCTR}(34.15)) * \text{TAN}(30) \quad (2)$$

With these changes, the algorithm gives correct values for both latitude and longitude.

## REFERENCE

1. L.E. Eber and R.P. Hewitt, "Conversion algorithms for the calcofi station grid," CalCOFI Report **20**, 135-137 (1979)