Recently, low vertical emittance has been continuously observed.

Recent result of low emittance in ATF DR (single bunch)
KUBO, Kiyoshi (KEK)
ISG-X at SLAC, June 2003
Improvement in ATF Damping Ring from 2002, important for low vertical emittance

(A) New BPM electronics
(B) Beam based BPM offset correction (BBA)
(C) Beam based optics correction (COD Steer-BPM)
(D) Improved laser wire monitor

Improved (B) and (C) have become possible because of (A).
Vertical COD, May 2003 and Nov. 2002
Vertical Dispersion, May 2003 and Nov. 2002
$C_{xy} = 0.029$

$x$-$y$ Coupling May 2003 and Nov. 2002

$C_{xy} = 0.119$
Vertical emittance measured by Laser Wire (April 16) (Preliminary)