order matrices. The maximum size tried thus far in these meteorological experiments was for the ($M = 6$, $N = 8$) case of Table 7, which had $6 \times 9 = 54$ eigenvalues. The required computing time was slightly over one hour on a Control Data Corporation (CDC) 1604 computer having a core storage of 32,768 words of 48 bits each and a typical add time of 7.2 microseconds.

As an illustration of the manner of convergence of the iterative scheme, the successive approximations for one of the complex eigenvalues is given below:

$1.9727168 + 0.25197500i$
$2.7299276 + 0.32692392i$
$2.8093565 + 0.37778137i$
$2.9266281 + 0.39321148i$
$2.9388445 + 0.45056607i$
$2.9744696 + 0.49454242i$
$3.0049183 + 0.53366869i$
$3.0326779 + 0.56017892i$
$3.0516001 + 0.57844203i$
$3.0617377 + 0.59076983i$
$3.0646291 + 0.60018088i$
$3.0627056 + 0.60859656i$
$3.0582198 + 0.61712984i$
$3.0529552 + 0.62621076i$
$3.0481466 + 0.63581022i$
$3.0445522 + 0.64662653i$
$3.0425255 + 0.65521790i$
$3.0420947 + 0.66411370i$
$3.0430370 + 0.67190399i$
$3.0449639 + 0.67830924i$
$3.0537138 + 0.70134526i$
$3.0536066 + 0.70149176i$
$3.0536067 + 0.70149177i$

Some roots showed somewhat greater fluctuations, at least initially, in converging toward the final value.

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ERRATA

In the Abstract of this article, line 10, the word destabilizing should be stabilizing.