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ABSTRACT

In the framework of studies which are concerned with "physical foundations of climate" the available potential energy and its variability both in space and time was estimated by P. SPETH (1978). The computations were carried out in a mixed space-time domain for the time period 1967 through 1976 using grid-points of routine analysis of the German Weather Service, Offenbach/Main. As supplement to this study in the present report mean meridional cross-sections for each January and July of the period 1973 until 1976 are presented. The period 1967 until 1972 is given in P. SPETH (1974).
ZUSAMMENFASSUNG


The following symbols are used:

$A_{MMC}$ the available potential energy produced by the mean meridional circulation

$A_{MSE,1-15}$ the available potential energy produced by the mean standing eddies (wavenumbers 1 until 15)

$A_{MSE,1}$ the available potential energy produced by the mean standing eddies (wavenumber 1)

$A_{MSE,2-3}$ the available potential energy produced by the mean standing eddies (wavenumbers 2 and 3)

$A_{MSE,1-3}$ the available potential energy produced by the mean standing eddies (wavenumbers 1 until 3)

$A_{MSE,4-8}$ the available potential energy produced by the mean standing eddies (wavenumbers 4 until 8)

$A_{TE}$ the available potential energy produced by the transient eddies

$A_{TOC}$ the total available potential energy.
REFERENCES


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$A_{MMC} \quad 10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1} \quad \text{JAN. 73}$
$A_{\text{MMC}} \quad 10^{-3} \ J \ cm^{-2} \ MB^{-1} \ J \ A \ N. \ 74$
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JAN. 75
$A_{MMC} \quad 10^{-3} \quad J \ CM^{-2} \ MB^{-1} \quad JULY \ 73$
$A_{\text{MMC}}$

$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JULY 76

Abb.8
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$10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1}$ JAN 75
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$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JULY 74
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JULY 75
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JAN. 73

Abb. 17
$A_{TE}$

$10^{-3}$ J CM$^{-2}$ MB$^{-1}$

JAN. 75

Abb. 19
$10^{-3} \text{ J cm}^{-2} \text{ MB}^{-1}$ JAN.76

Abb 20
$A_{TE}$

$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JULY 75
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JAN. 76
Abb. 29

10^{-3} J cm^{-2} MB^{-1} JULY 78
Kennziffer: 39017300

$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ Jan. 73
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JAN. 74

Abb.34
$10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1}$ JAN. 75

Abb.35
$10^{-3}$ J CM$^{-2}$ MB$^{-1}$ JULY 76

Abb. 40
$A \equiv_{T_{OC}} 10^{-3} \text{ J Cm}^{-2} \text{ MB}^{-1}$ Jan. 73
$A_{TOC}$ \(10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1}\) JAN. 74
$A_{\text{sec}}$  \hspace{1cm} $10^{-3}$ J CM$^{-2}$ MB$^{-1}$ \hspace{1cm} JAN. 76
10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1} \text{ JULY 75
$10^{-3} \text{ J CM}^{-2} \text{ MB}^{-1}$ JULY 73

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A

MSE, 1–3

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