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AMS Subject Classification: 49K, 49S.

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[1],

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AVHRR, TOMS, MODIS,

MISR   .   ,

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[2],

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0,01 ,

0,1.

[2],   ,

AVHRR

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AERONET   25   25   .

0,15   0,07.
0,31   0,54.
[3],   AERONET   MISR
0,97
AERONET
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[4],

AERONET.   ,   ,
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,   ,   MODIS - Terra
AERONET,
Aqua.
[1],
72
550   MODIS
AERONET   ,
,

$$\ddagger_m = \frac{\sum_d (\ddagger_d \cdot n_d)}{\sum_d n_d},$$ (1)

n_d -   ; $\ddagger_d$ -
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AERONET
,   MODIS.

2.

AERONET   MODIS   .
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3.

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            ,
                                             X_0.
                              $X_1 = X_0 + \dagger_{X_1}$, $\dagger_{X_1}$ -
                        .
                                                      $X_2 = X_0 + \dagger_{X_2}$, $\dagger_{X_2}$ -
                                          .
         X_1 X_2 :
   $R(X_1, X_2) = R(X_0, X_0) + R(X_0, \dagger_{X_1}) + R(X_0, \dagger_{X_2}) + R(\dagger_{X_1}, \dagger_{X_2}).$
            ,
            $R(X_0, \dagger_{X_1}) = 0,$
            $R(X_0, \dagger_{X_2}) = 0,$
            $R(\dagger_{X_1}, \dagger_{X_2}) = 0,$
                                                   $(X_0, \dagger_{X_1})$, $(X_0, \dagger_{X_2})$
$(\dagger_{X_1}, \dagger_{X_2})$.
            , $R(X_0, X_0) = 1.$,   ,
                                                                                          ,
                  ,   /

$$Œ = \frac{X_0}{†_{..}},$$

†.- .

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$$I = \sum_{i=1}^{m} n_i \, log_2 ‡(n_i). \tag{2}$$

(1) (2), , (2)

‡ . , (1) (2)

‡(n)

(2)

$$\sum_{i=1}^{m} ‡(n_i) = const \tag{3}$$

. , (3)

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,

$$I_1 = \sum_{i=1}^{m} n_i \, log_2 ‡(n_1) + \} \sum_{i=1}^{m} ‡(n_i), \tag{4}$$

} - .

, (4)

$$I_{1n} = \int_0^{n_{max}} \Phi[‡(n)] dn = \int_0^{n_{max}} log_2 ‡(n) dn + \} \int_0^{n_{max}} ‡(n) dn. \tag{5}$$

$$\frac{dW[‡(n)]}{d‡(n)} = 0. \tag{6}$$

(6) (5)

$$‡(n)_{opt} = \frac{n \cdot C}{n_{max}^2}. \tag{7}$$

, , (5)

(7)

‡ n .

n (7) ,

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Yerüstü fotometrik   b k l rin v bort spektrometl rinin ölçm n tic l rinin yeni müqayis metodu

F.G.A ayev, Y.N. liyeva

XÜLAS

Yerüstü Gün   fotometrl rinin v   bort spektrometrl rinin ölçm   n tic l rinin müqayis si üçün yeni metod t klif edilmi dir. Göst rilmi dir ki, informasiya baxımından verilmi qiym tl rin korrelyasiya üsulu il müqayis sinin h qiqiliyi verilmi informasiya qiym tl rind n asılıdır.

Göst rilmi dir ki, verilmi m hdudiyy tl r daxilind aerozolun optik qalınlı ının ölçülmü veril nl ri üçün t klif edilmi informasiya qiym tl ndirilm si optik qalınlı ın aparılan ölçm l rin sayından asılılı ının mü yy n funksiyası mövcud olduqda ekstremal qiym t alır.

Açar sözl r: fotometr, informasiya, optik qalınlıq, aerozol, korrelyasiya.

The new method for comparing the results of measurements of ground Solar photometers and space borne spectrometer

F.G. Agayev, Y.N. Aliyeva

ABSTRACT

The new method for comparing of results of measurements of ground Sun photometer and space borne spectrometers is suggested. It is shown, that the authenticity of correlation type comparison of information estimates depends on valur of given information estimates.

It is shown, that under given limitations, the suggested information assessment of measured values of optical depth of aerosol has the extremum value upon some curtain type function of dependence of optical depth from number of carried out measurements.

Keywords: photometer, information, optical thickness, aerosol, correlation/