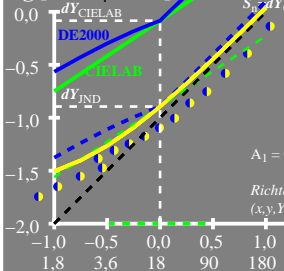


$\log [dY, A_4 \cdot \Delta b \cdot Y]$



$$dY = A_1 [1 + A_2/A_1 Y]$$

$$S_u \cdot dY_{\text{CIELAB}} / dY_{\text{JND}} = 6.4$$

x_r	dY_u	$\log Y$
-1.0	0.027	0.25
-0.5	0.059	0.75
0.0	0.127	1.25
0.5	0.274	1.75
1.0	0.592	2.25

x_r dY_u $\log Y$

-1.0 0.027 0.25

-0.5 0.059 0.75

0.0 0.127 1.25

0.5 0.274 1.75

1.0 0.592 2.25

$$A_2/A_1 = 0.2895$$

$$A_1 = 0.0205 \quad A_2 = 0.0059$$

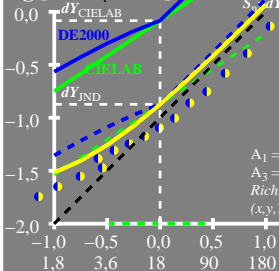
Richter_D_PO2_022S ●

$(x, y, Y)_u = (0.33, 0.36, 18)$

$$x_r = \log[Y/Y_{18}]$$

1.8 3.6 18 90 180 Y

$\log [dY, A_4 \cdot \Delta b \cdot Y]$



$$dY = A_1 [1 + A_2/A_1 Y]$$

$x_r \quad dY_u \quad \log Y$

-1.0	0.028	0.25
-0.5	0.062	0.75
0.0	0.133	1.25
0.5	0.288	1.75
1.0	0.621	2.25

$$A_2/A_1 = 0.3405$$

$$A_1 = 0.0187 \quad A_2 = 0.0063$$

$$A_3 = 1.0 \quad A_4 = 1.0$$

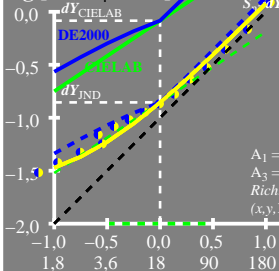
Richter_D_PO2_066S ●

$$(x, y, Y)_u = (0.33, 0.36, 18)$$

$$x_r = \log[Y/Y_{18}]$$

1.8 3.6 18 90 180 Y

$\log [dY, A_4 \cdot \Delta b \cdot Y]$



$$dY = A_1 [1 + A_2/A_1 Y]$$

$$S_{10} dY_{CIELAB} / dY_{JND} = 5.9$$

x_r	dY_u	$\log Y$
-1.0	0.03	0.25
-0.5	0.064	0.75
0.0	0.139	1.25
0.5	0.3	1.75
1.0	0.647	2.25

x_r dY_u $\log Y$

-1.0 0.03 0.25

-0.5 0.064 0.75

0.0 0.139 1.25

0.5 0.3 1.75

1.0 0.647 2.25

$$A_2/A_1 = 0.298$$

$$A_1 = 0.0219 \quad A_2 = 0.0065$$

$$A_3 = 1.179 \quad A_4 = 1.685$$

Richter_P_PO4_066A ●

$$(x, y, Y)_u = (0.33, 0.36, 18)$$

$$x_r = \log[Y/Y_{18}]$$

$$Y$$