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(Terra MISR)

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Level 1,5

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(1984) Eyre et al.

(NOAA)

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UNESCO Bilko

Meteosat
Ground Truth

Ellord,(1989, 1991, 1994).
GOES

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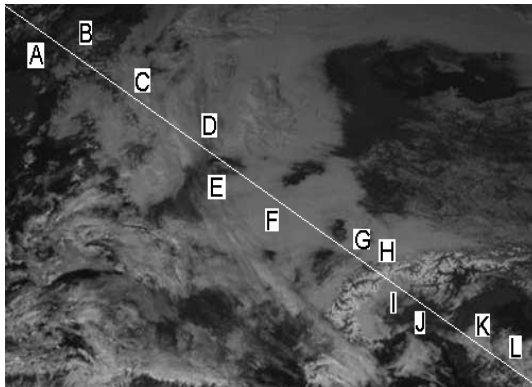
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SEVIRI

Meteosat
Meteosat
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$$T_b = [C_2 \nu_c / \log(\frac{C_1 \nu_c^3}{R} + 1) - B] / A \quad (1)$$



$$C_2 \quad C_1 \quad T_b$$

$$1,19104 * 10^{-5} \text{ mWm}^{-2}\text{sr}^{-1}(\text{cm}^{-1})^{-4}$$

$$\nu_c \quad 1,43877\text{K}(\text{cm}^{-1})^{-1}$$

$$B \quad A$$

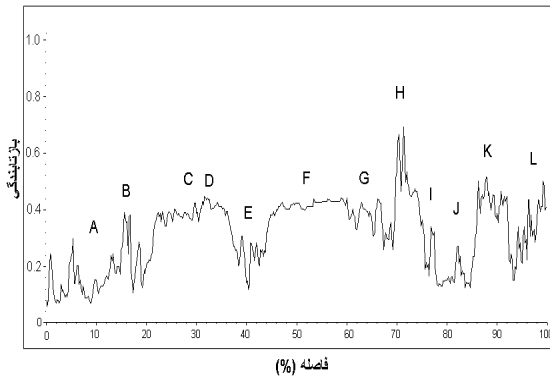
$$(\quad)$$

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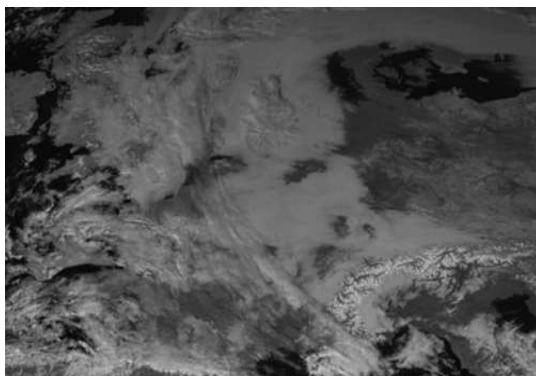
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			ν_c	A	B
1	VIS 06	0.56-0.71	--	--	--
2	VIS 08	0.74-0.88	--	--	--
3	IR 1,6	1.5-1.78	--	--	--
4	IR39	3.48-4.36	2569,094	0,9959	3,471
5	WV62	5.35-7.15	1598,566	0,9963	2,219
6	WV73	6.85-7.85	1362,142	0,9991	0,485
7	IR87	8.30-9.10	1149,083	0,9996	0,181
8	IR97	9.38-9.94	1034,345	0,9999	0,060
9	IR108	9.80-11.80	930,659	0,9983	0,627
10	IR120	11-13	839,661	0,9988	0,397
11	IR134	12.4-14.4	752,381	0,9981	0,576

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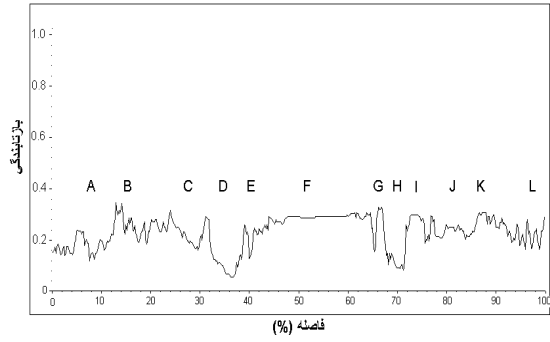


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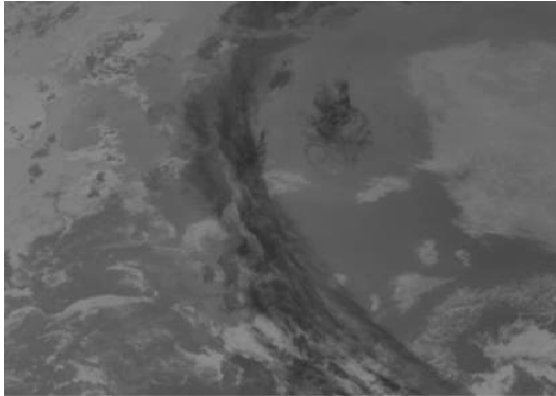
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(μm) (/ μm) (/ μm)
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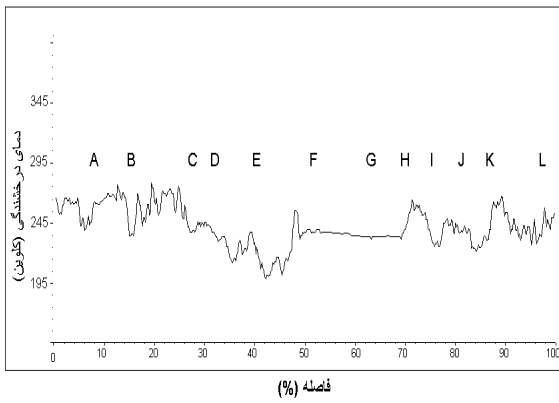
AL : AL

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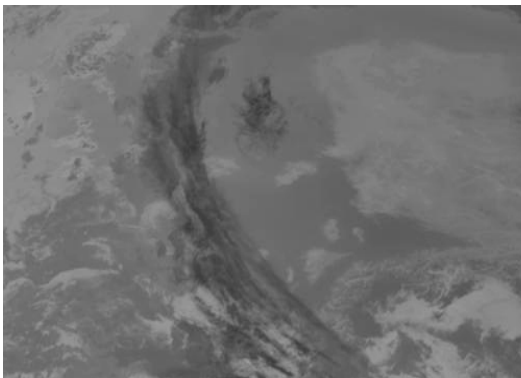
// 7 :

.SEVIRI



AL : AL

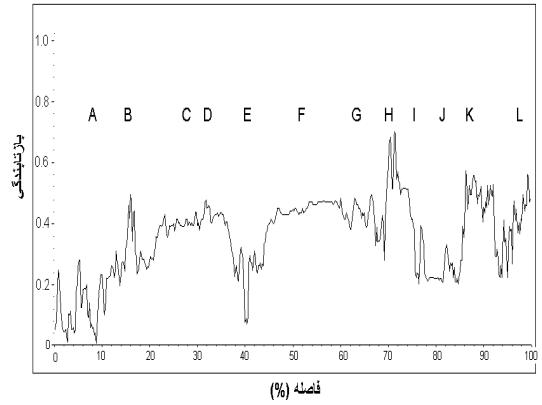
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AL : AL

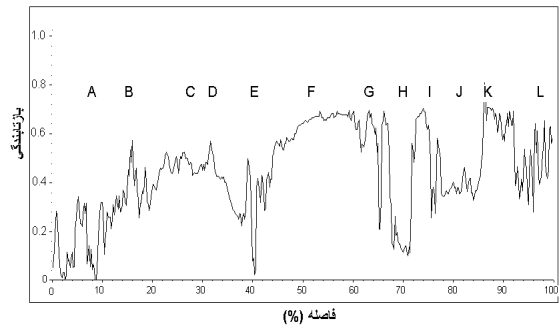
.2



3 :

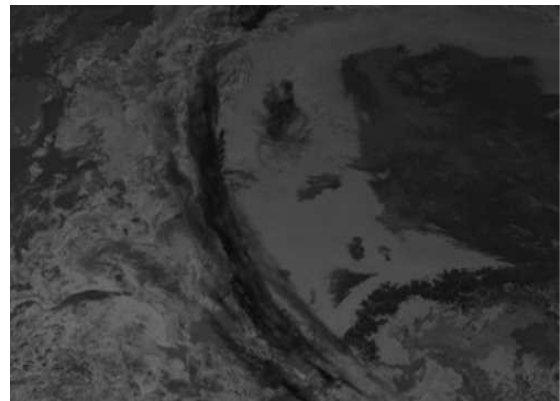
.SEVIRI

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AL : AL

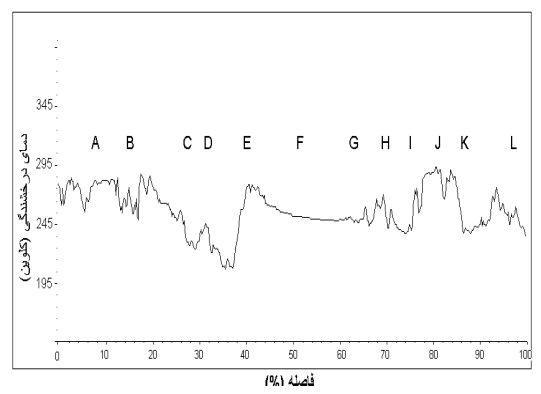
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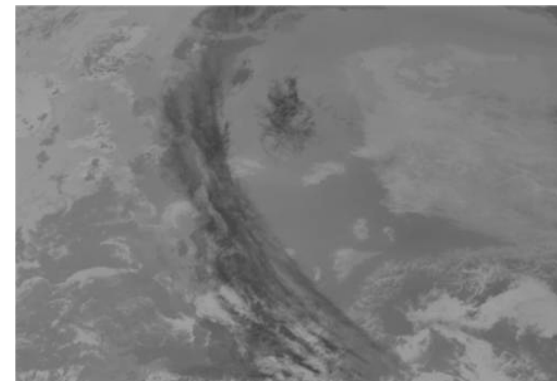
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AL : 9

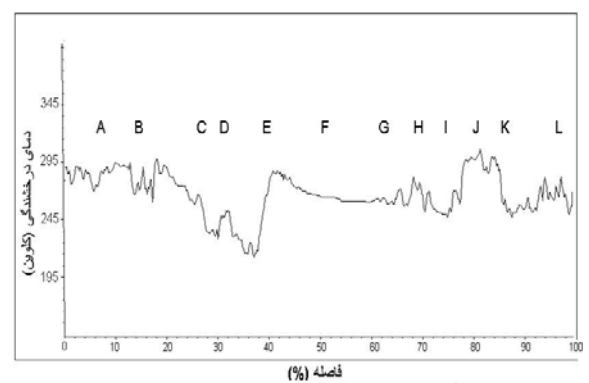
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(Mobasheri, 2003)

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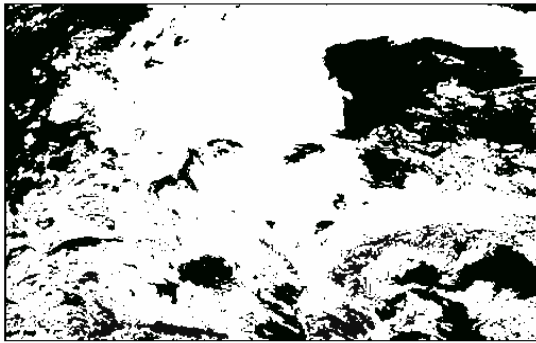
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□ آسمان لبری (بازتابندگی بزرگتر از ۰/۱۱) ■ آسمان صاف (بازتابندگی کوچکتر از ۰/۱۱)

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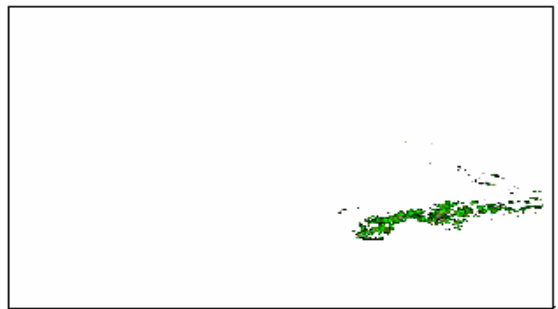
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$$\frac{Band3 * 100}{Band1 + 60} > 100$$

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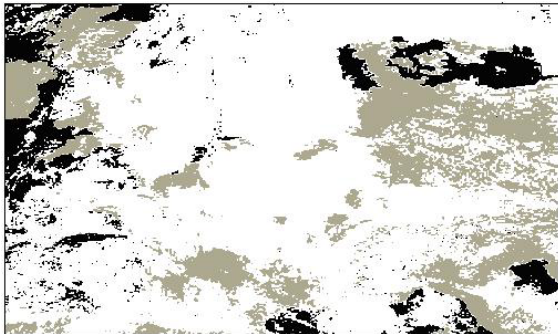
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$$0.85 \leq B1 \leq 1.15$$

$$B2 > 1.15$$

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□ پوشیده از ابر (0.85 < B1 < 1.15) □ آسمان صاف (B2 > 1.15) ■ نامشخص

:(Stowe et. al., 1991)

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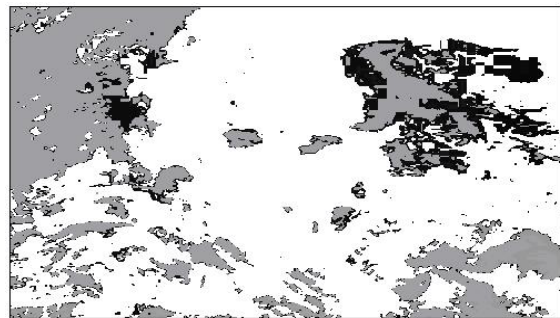
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□ پوشیده از ابر (کمتر از ۲۴۴k) □ آسمان صاف (نمای بیشتر از ۲۷۳k) ■ نامشخص

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C1 B1 A1

C2 B2 A2

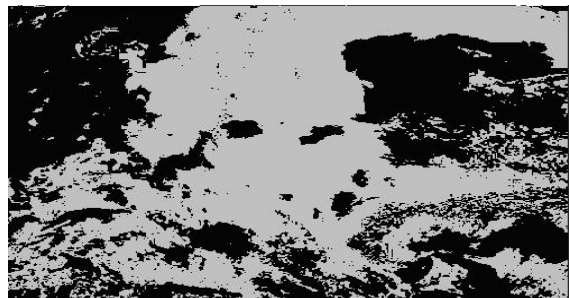
$10 \leq Band10 - Band9 \leq 15$

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□ پوشیده از ابر □ آسمان صاف

(Nelson and Ellrod, 1996)

(L C, D, F, G, K)

ELLROD,)

(1995, Maturi and Steger, 1989

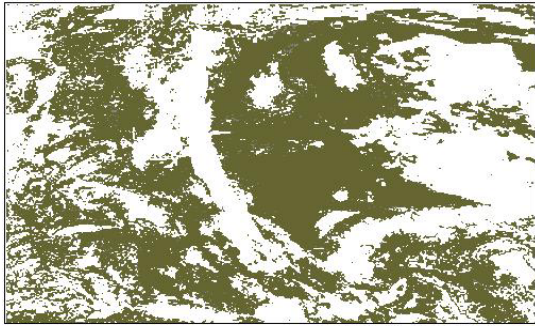
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$$0.1 \leq \frac{Band3 - Band1}{Band3 + Band1} \leq 0.2$$

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منطقه پوشیده از ابرهای کوتاه و مه

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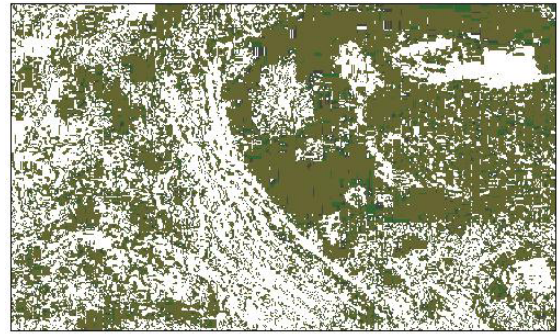
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$$4 \leq \left[\left(\frac{Band4}{0.1} \right)^{\frac{1}{4}} - Band9^{\frac{1}{4}} \right]^4 \leq 18$$

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منطقه پوشیده از ابرهای کوتاه و مه

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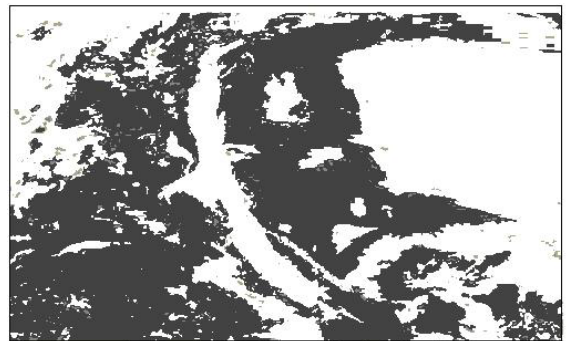
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منطقه پوشیده از ابرهای کوتاه و مه

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$$1.2 \leq \frac{Band3}{band1} \leq 1.8 \quad \& \quad 90 \leq Band9 \leq 117$$

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منطقه پوشیده از ابرهای کوتاه و مه

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$$0.6 \leq \frac{band4}{band1} \leq 1.5 \quad \& \quad 90 \leq Band9 \leq 117$$

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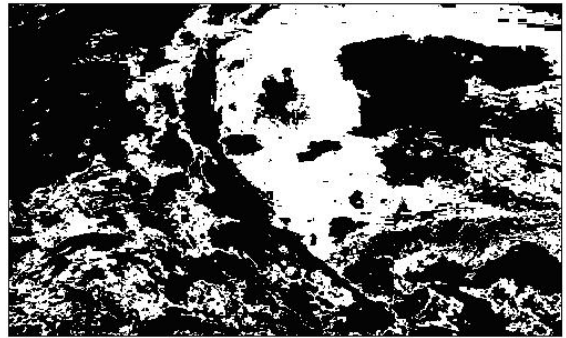
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منطقه پوشیده از ابرهای کوتاه و مه

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- 1 - Meteosat Second Generation
2 - Spinning Enhanced Visible and Infra Red Imager
3 - Dual Channel Difference
4 - Radio Sound
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