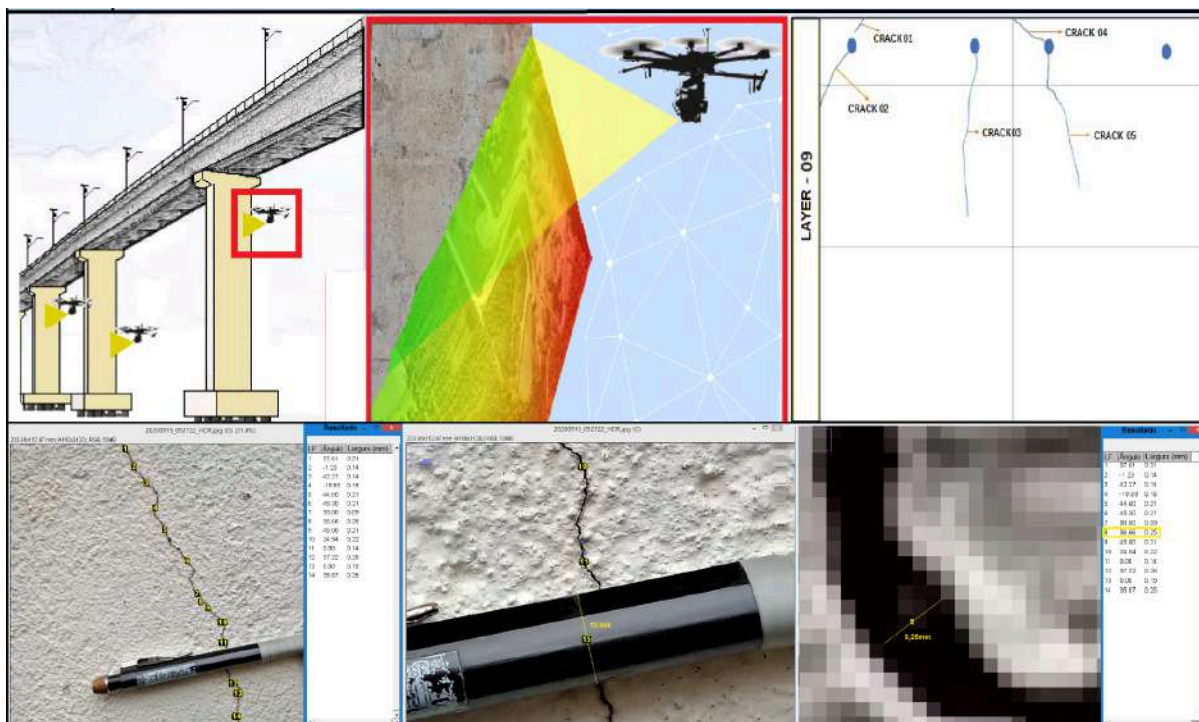
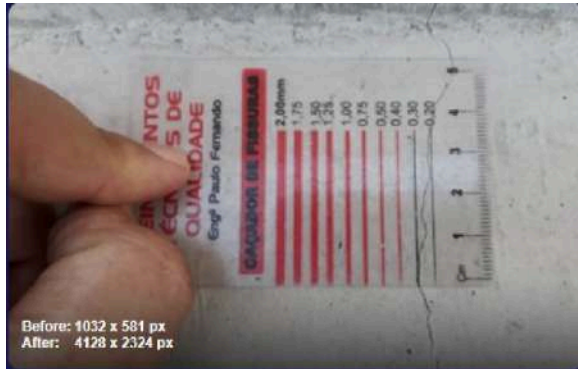




MEDIÇÃO DE ABERTURA POR IMAGEM AUXILIADO POR DRONE

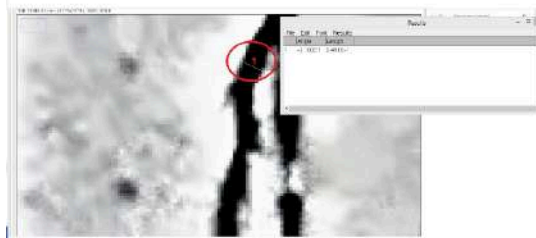




1) A foto foi trabalhada aumentando a sua resolução em pixel



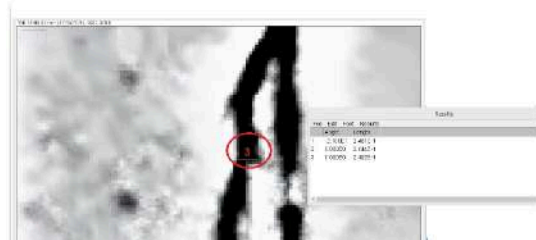
2) Foi selecionado uma parte da fissura e ampliada para análise



3) Como exemplo foram selecionadas partes da fissura e medida a sua abertura. O círculo vermelho mostra a cota denotada com o n 1 e ao lado uma janela com o valor de abertura de 0,245 mm.



4) Próxima dimensão, n 2, com o valor de abertura de 0,264mm.

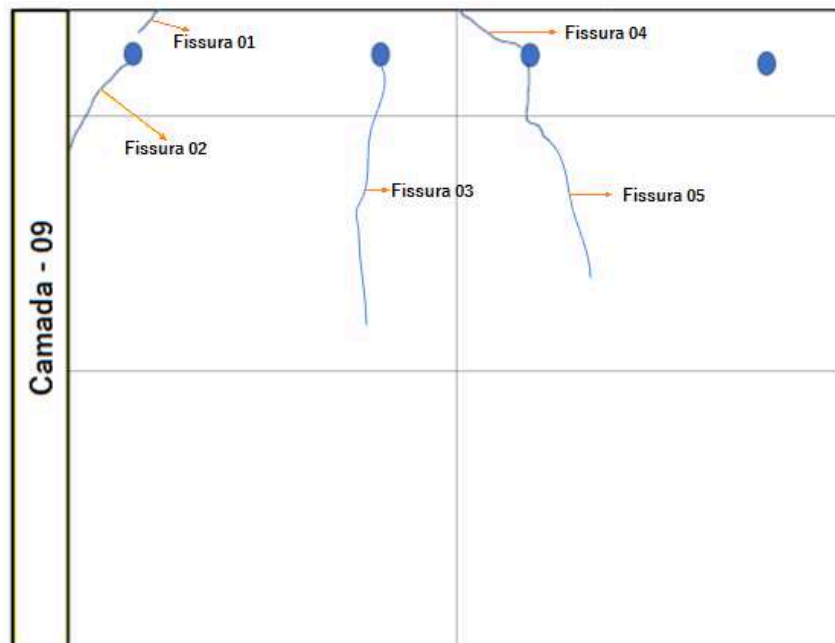


5) Próxima dimensão, n 3, com o valor de abertura de 0,245mm.



Camada 09

a) Mapeamento Fissuras



b) Imagem da Camada 09





c) Fissura 01 (Camada 09)

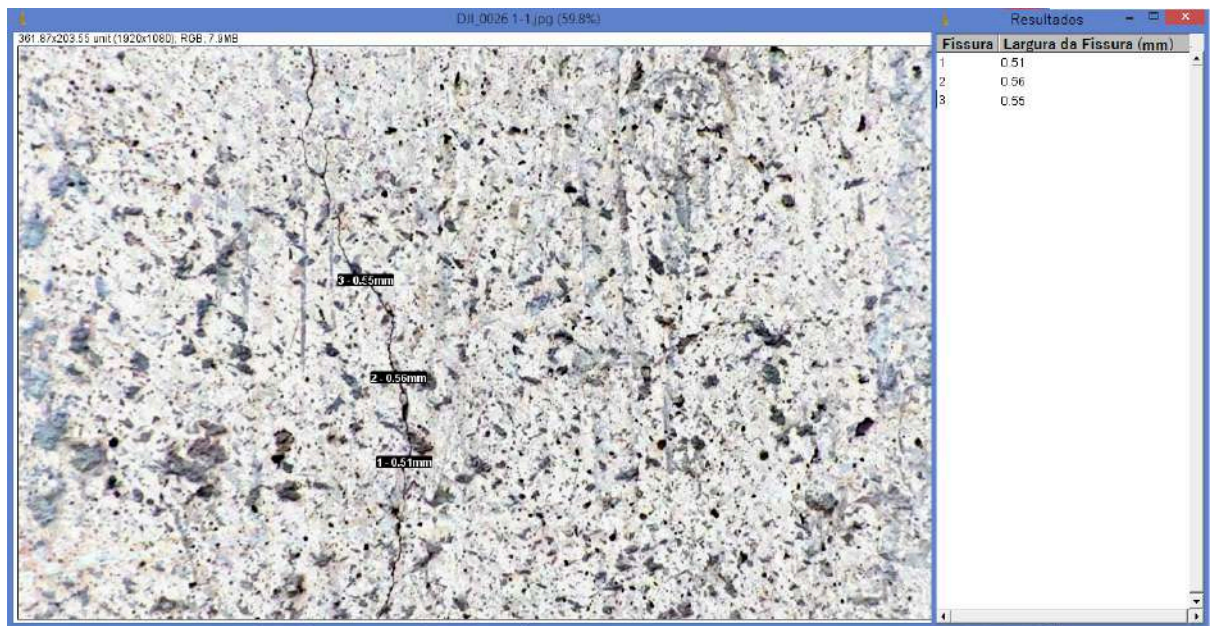


d) Fissura 02 (Camada 09)





e) Fissura 03 (Camada 09)



f) Fissura 04 (Camada 09)





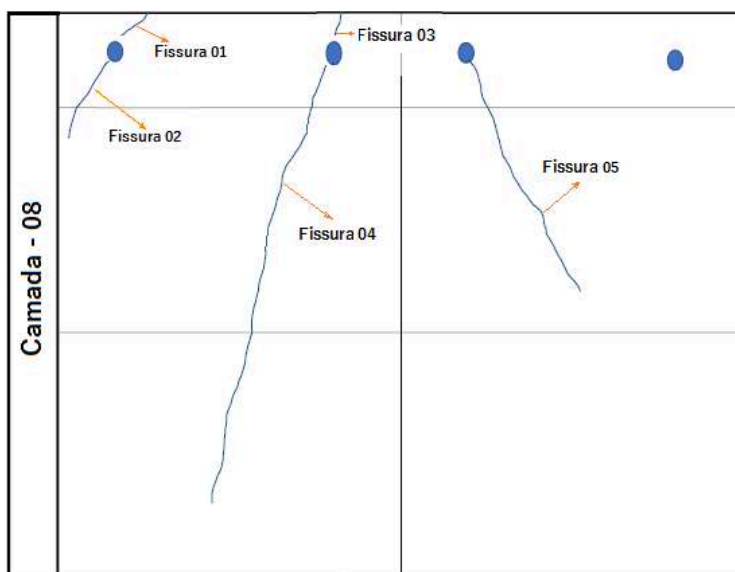
g) Fissura 05 (Camada 09)



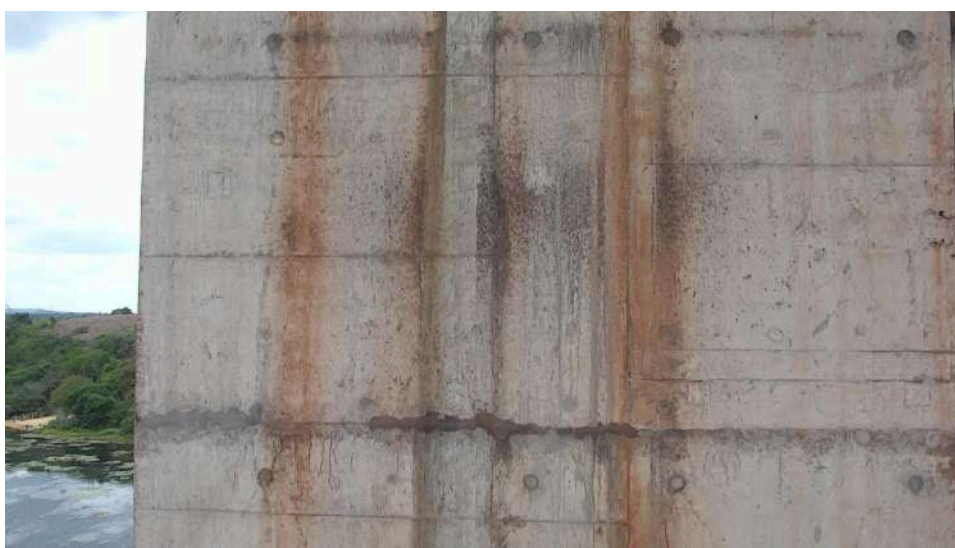


Camada 8

a) Mapeamento Fissuras

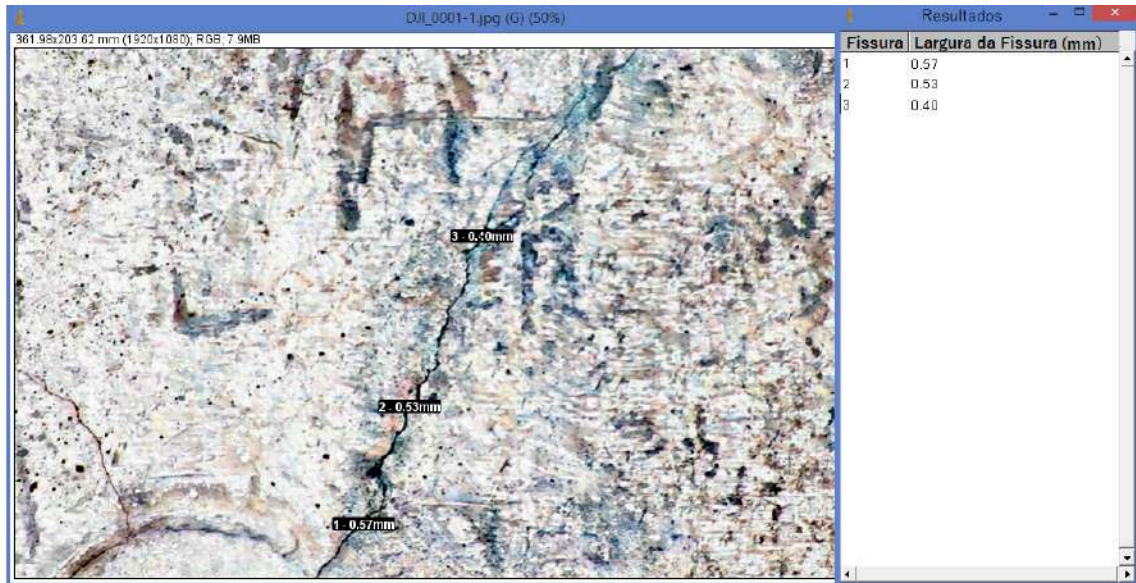


b) Imagem da Camada 08

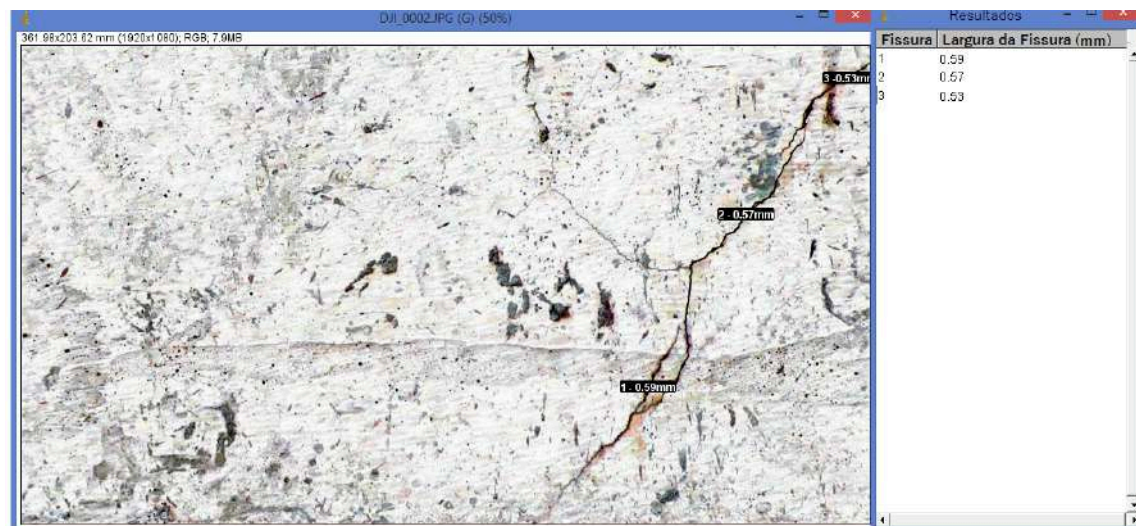




c) Fissura 01 (Camada 08)



d) Fissura 02 (Camada 08)

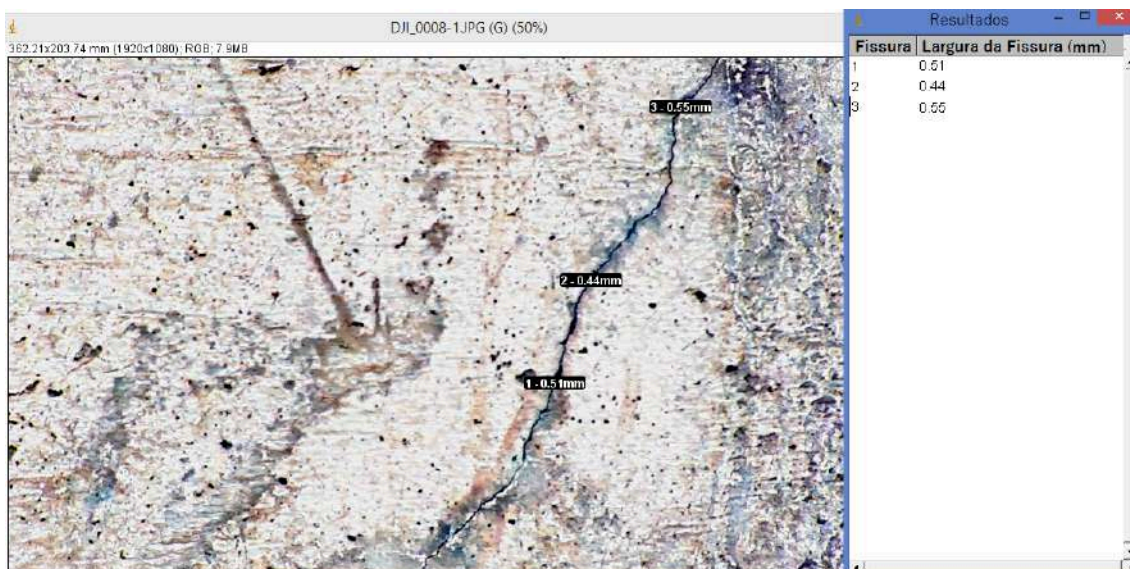




e) Fissura 03 (Camada 08)

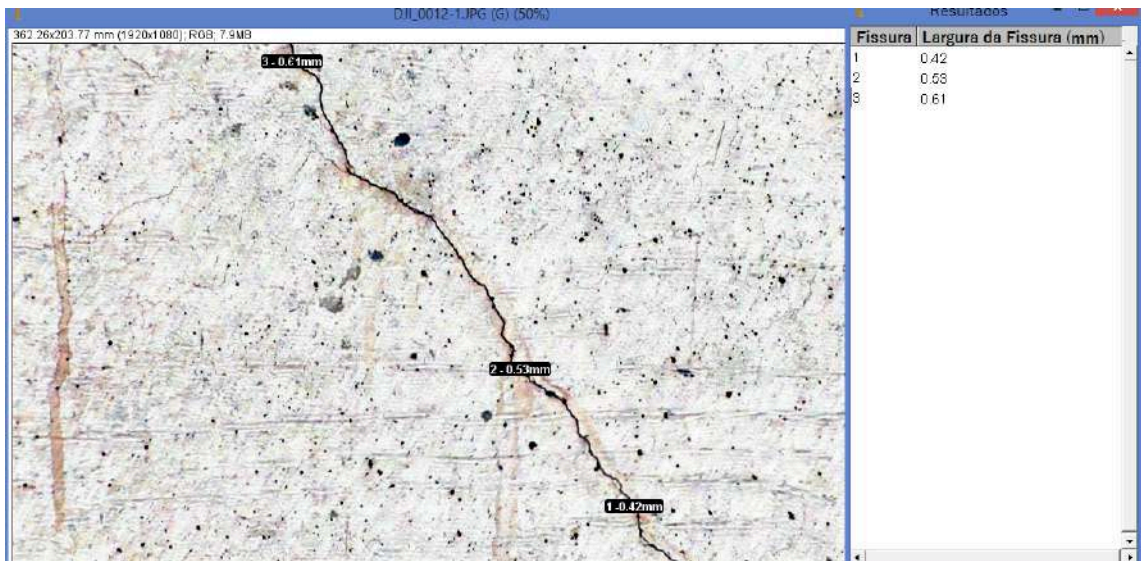


f) Fissura 04 (Camada 08)





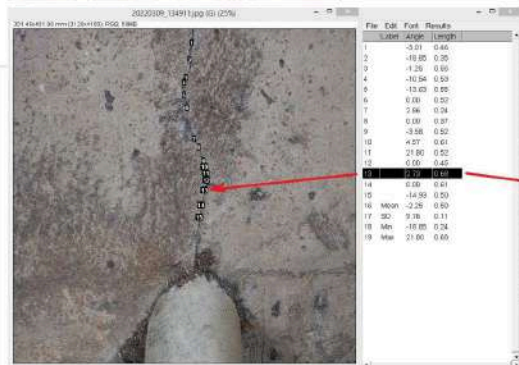
e) Fissura 05 (Camada 08)





EXEMPLO DE FISSURA REGISTRADA NO VIADUTO DA IMIGRANTES

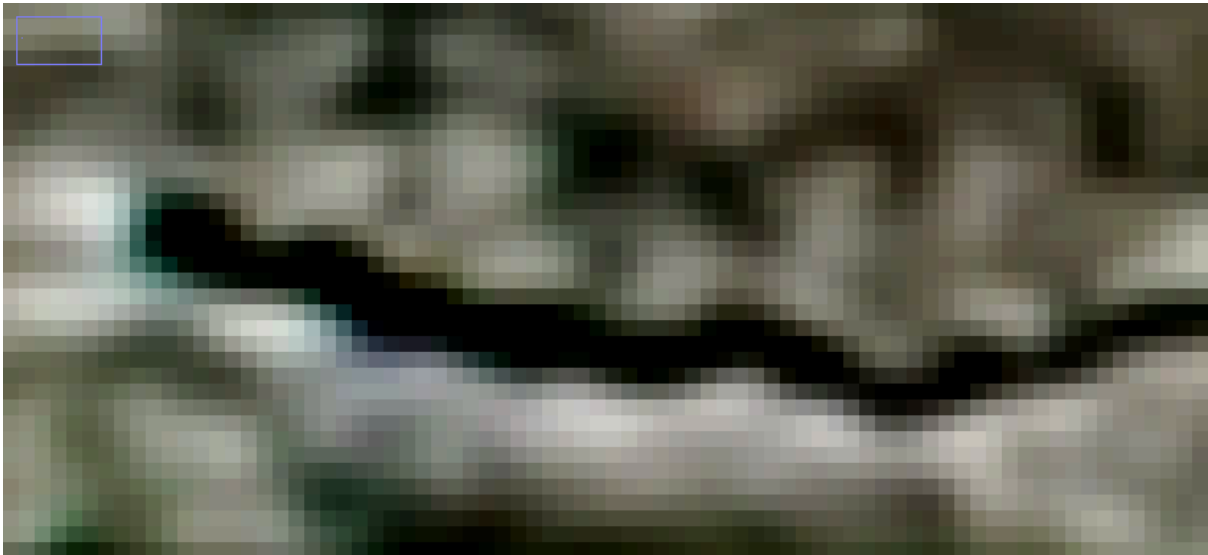
ABERTURA 1





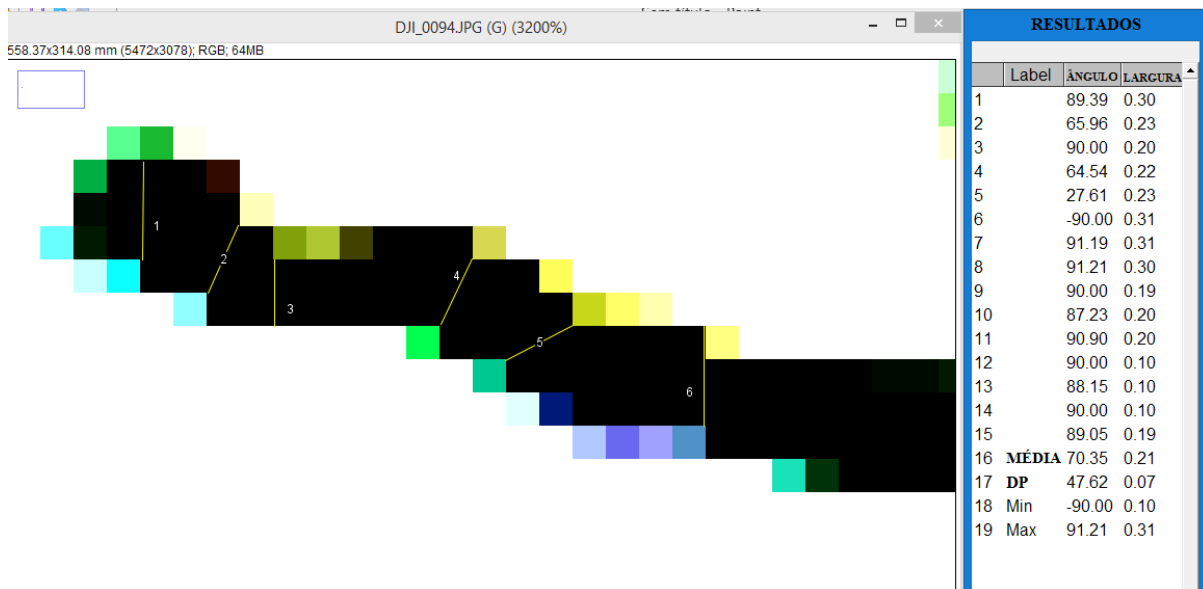
ABERTURA 2





123.54x238.24 mm (5472x3078); RGB; 64MB








ABERTURA 3



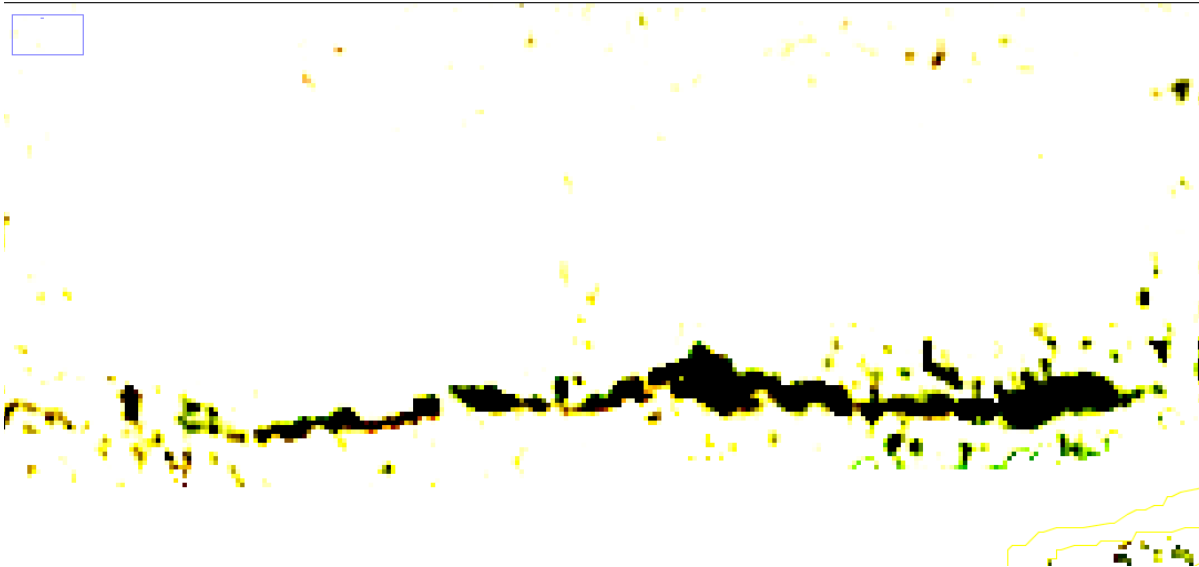


Cel.: 55 11 97652 6482 

E-mail.: marcel.kater@hotmail.com

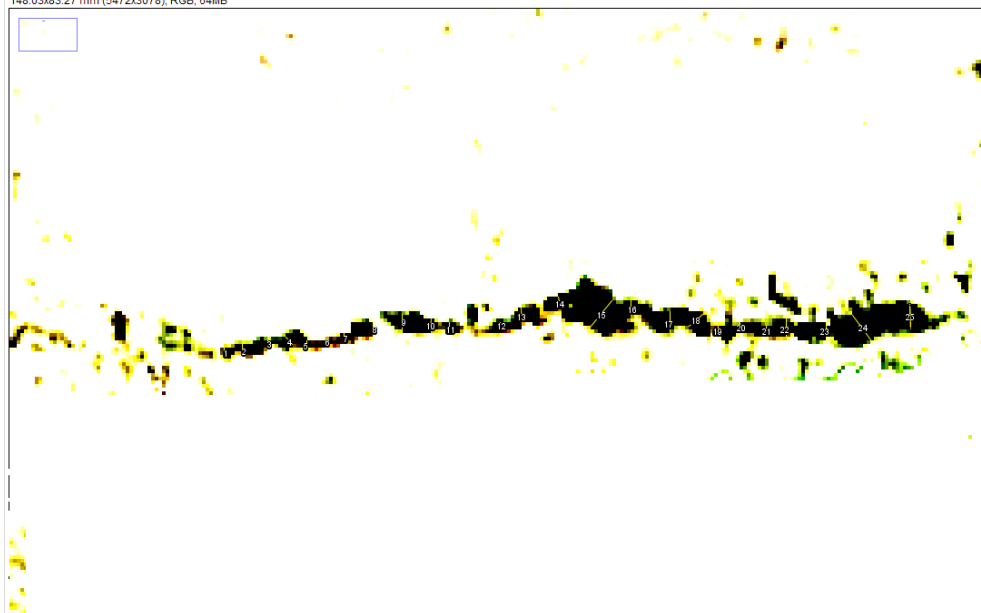
katercursos@gmail.com

558.37x314.08 mm (5472x3078); RGB; 64MB



148.03x83.27 mm (5472x3078); RGB; 64MB


DJI_0074.JPG (G) (400%)



RESULTADOS

Label	ÂNGULO	LARGURA
4	132.27	0.08
5	88.24	0.05
6	88.32	0.03
7	90.00	0.05
8	89.09	0.11
9	90.36	0.14
10	89.40	0.08
11	90.60	0.08
12	90.00	0.05
13	90.90	0.11
14	106.26	0.08
15	49.84	0.25
16	90.90	0.11
17	90.90	0.16
18	37.87	0.13
19	88.17	0.08
20	91.75	0.08
21	91.22	0.08
22	89.64	0.14
23	90.00	0.13
24	0.00	0.00
25	125.66	0.23
26	90.52	0.19
27	Mean	86.63 0.10
28	SD	24.88 0.06
29	Min	0.00 0.00
30	Max	132.27 0.25



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