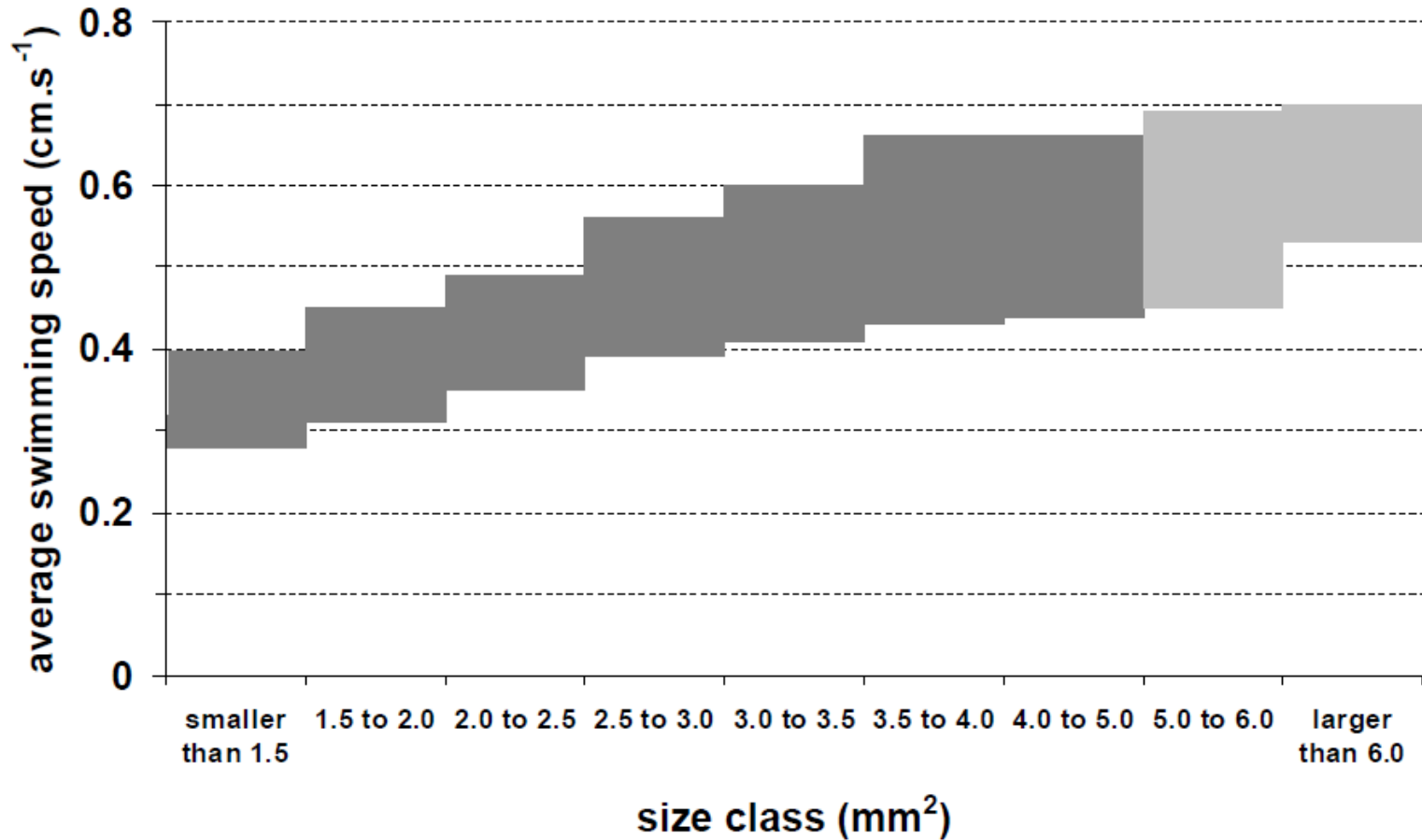


# DaphTox II – Threshold and *SpeedSize*-Classes

- Development for the Dutch market
- Additional thresholds (up and down limit)
- Size-Based Data Evaluation of Swimming Speed
- Growth-Alarm



# Data Evaluation - Size-Based Data Evaluation



Arco Wagenvoort, AqWa, NL

Corina de Hoogh, Kiwa Water Research, NL

EasyConfig | File | Alarm | Hinkley | Class | Thresholds | Average | Limits | Analog | Control | Activation | Calib | Measurement

thresholds

	active		averaging	lower bound		upper bound	
	H	S		threshold	points	threshold	points
speed:	<input type="checkbox"/>	<input type="checkbox"/>	10	0.35	5	1.1	5
fractal dimension:	<input type="checkbox"/>	<input type="checkbox"/>	40	1.1	5	1.44	5
organism size:	<input type="checkbox"/>	<input type="checkbox"/>	40	0.5	5	6	5
vel. class indices:	<input type="checkbox"/>	<input type="checkbox"/>	40	10	0	70	0
height class index:	<input type="checkbox"/>	<input type="checkbox"/>	40	10	0	70	0
width class index:	<input type="checkbox"/>	<input type="checkbox"/>	40	10	0	70	0
height:	<input type="checkbox"/>	<input type="checkbox"/>	40	0.5	5	4.5	5
distance:	<input type="checkbox"/>	<input type="checkbox"/>	40	0.5	5	4	5
recognition rate:	<input type="checkbox"/>	<input type="checkbox"/>	40	40	10	110	0
organism count:	<input type="checkbox"/>	<input type="checkbox"/>	40	3.5	5	13.5	5
temperatur sample:	<input type="checkbox"/>	<input type="checkbox"/>	40	10	5	35	5
temperatur preheater:	<input type="checkbox"/>	<input type="checkbox"/>	40	10	5	35	5

speed-threshold (size depending)

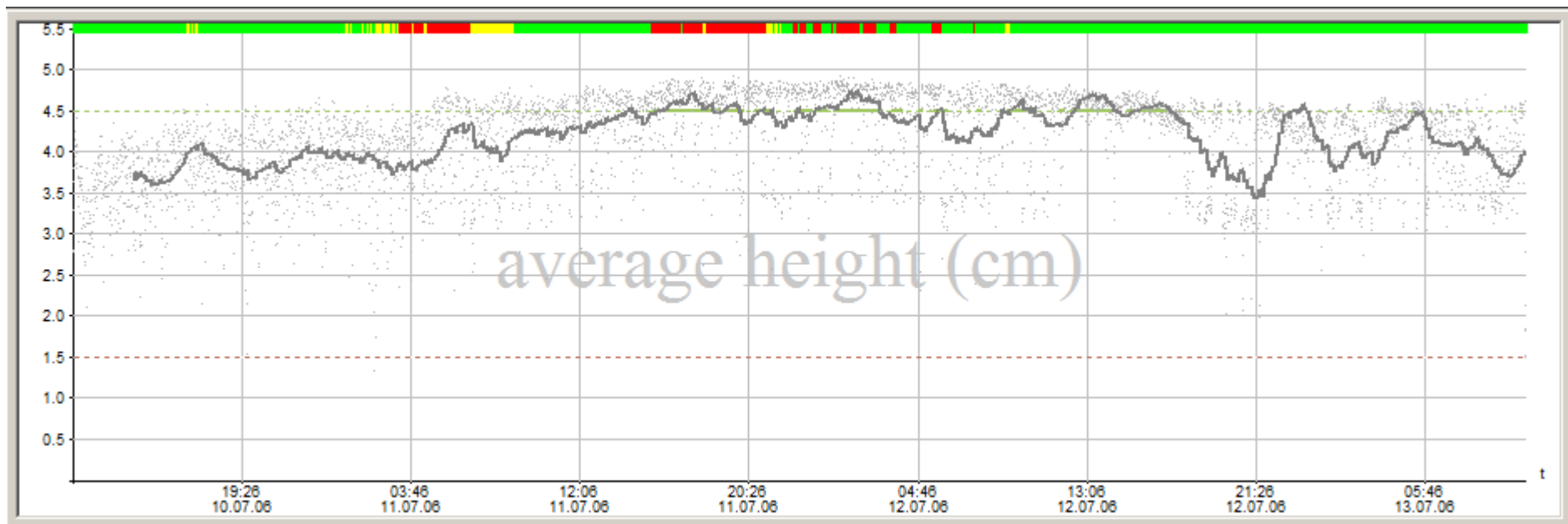
active  H  S points: 10

size		speed range	
0	to 1.5	0.28	to 0.4
1.5	to 2	0.31	to 0.45
2	to 2.5	0.35	to 0.49
2.5	to 3	0.39	to 0.56
3	to 3.5	0.41	to 0.6
3.5	to 4	0.43	to 0.66
4	to 5	0.44	to 0.66
5	to 6	0.45	to 0.69
6	to 7	0.53	to 0.7
7	to 8	0.7	to 0.85
8	to 10	0.85	to 1.5

averaging speed: 20 size: 500

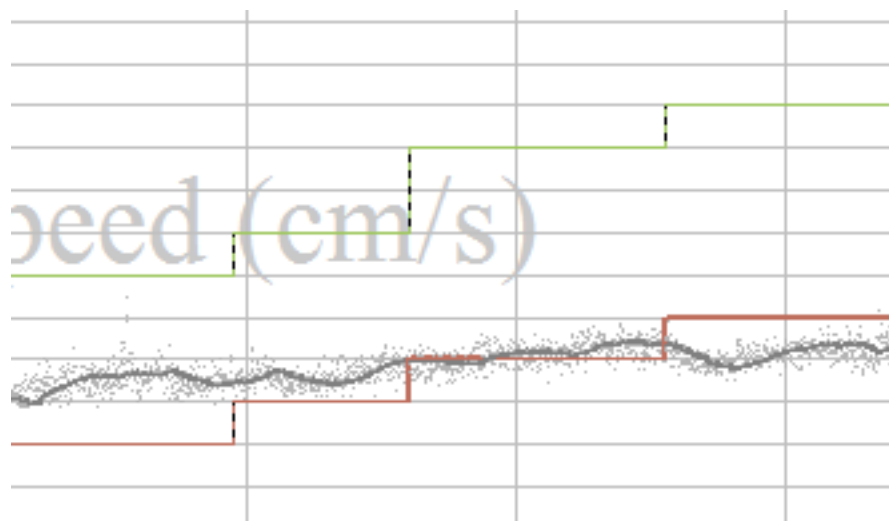
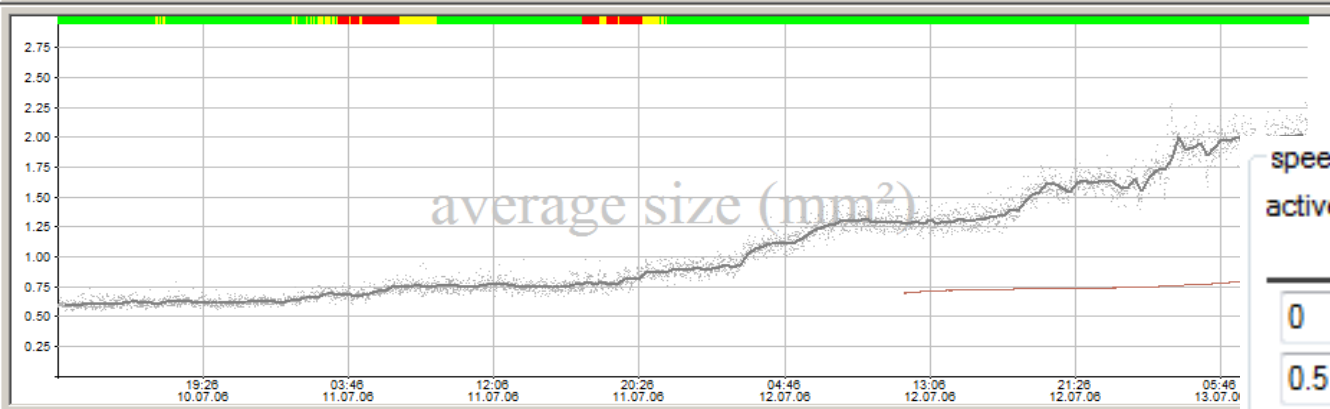
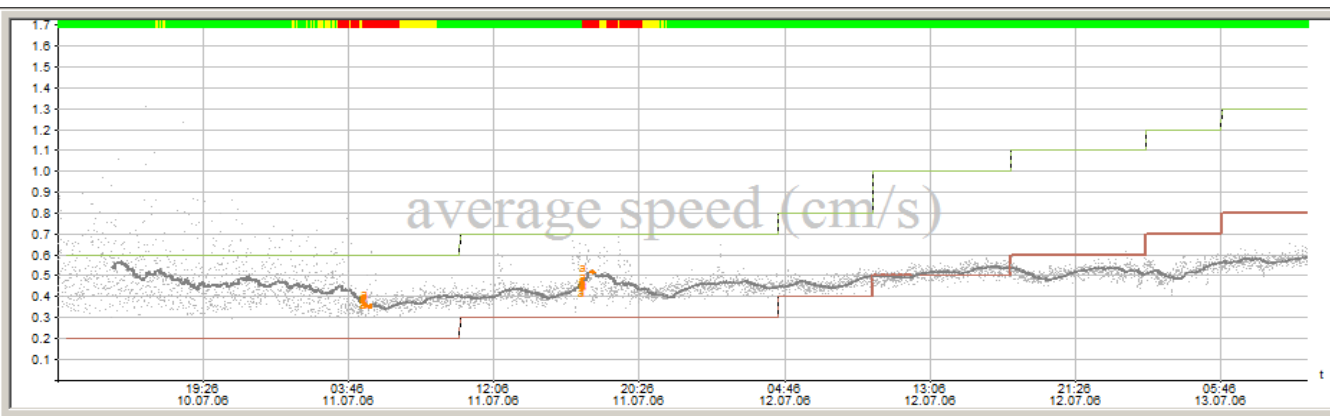
active  H growth alarm ( 3 days)  
 S limit 5 % points: 0

- Hardware (failure) and Software (water quality) Alarms
- Growth Alarm



thresholds

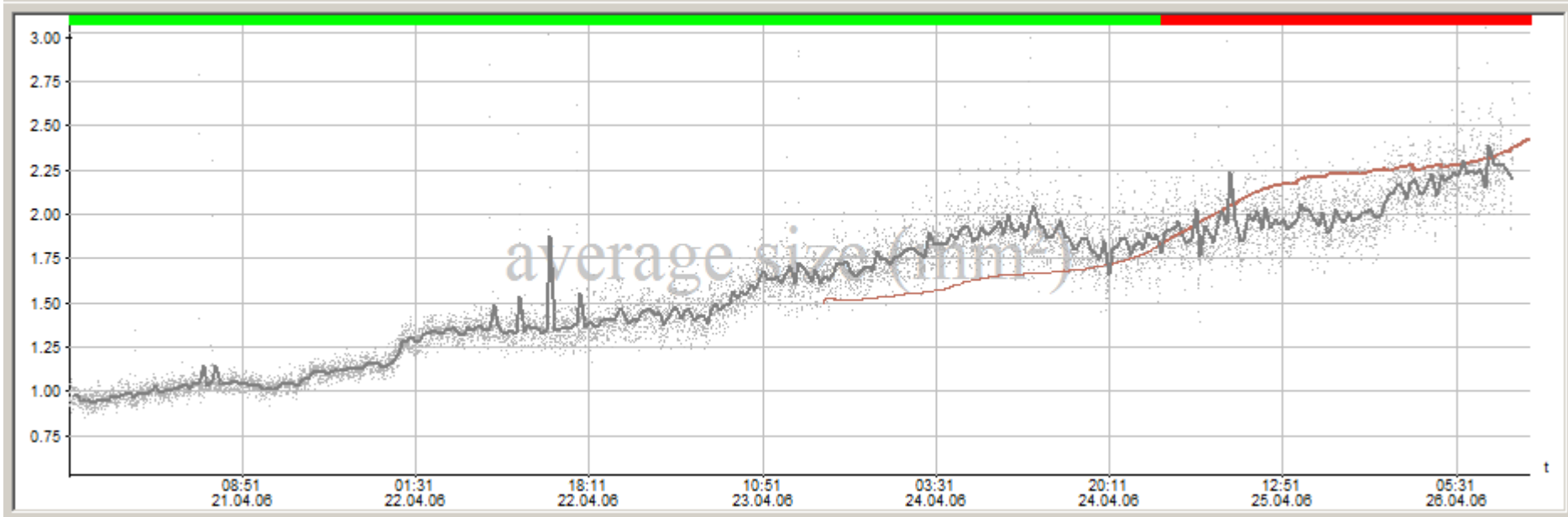
	active H S	averaging	lower bound threshold	points	upper bound threshold	points
speed:		10	0.35	5	0.55	5
fractal dimension:		40	1.1	5	1.44	5
organism size:		40	0.5	5	1.75	5
vel. class indices:		40	10	0	70	0
height class index:		40	10	0	70	0
width class index:		40	10	0	70	0
height:	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="text" value="40"/>	<input type="text" value="1.5"/>	<input type="text" value="5"/>	<input type="text" value="4.5"/>	<input type="text" value="5"/>



speed-threshold (size depending)

active  H  S points: 0

size		speed range	
0	to 0.5	0.1	to 0.2
0.5	to 0.7	0.2	to 0.6
0.7	to 0.9	0.3	to 0.7
0.9	to 1.1	0.4	to 0.8
1.1	to 1.3	0.5	to 1
1.3	to 1.5	0.6	to 1.1
1.5	to 1.7	0.7	to 1.2
1.7	to 1.9	0.8	to 1.3
1.9	to 2.1	0.9	to 1.4
2.1	to 2.3	1	to 1.5
2.3	to 10	1.1	to 1.6



averaging speed:  size:

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active  H growth alarm (  days)

S limit  % points: