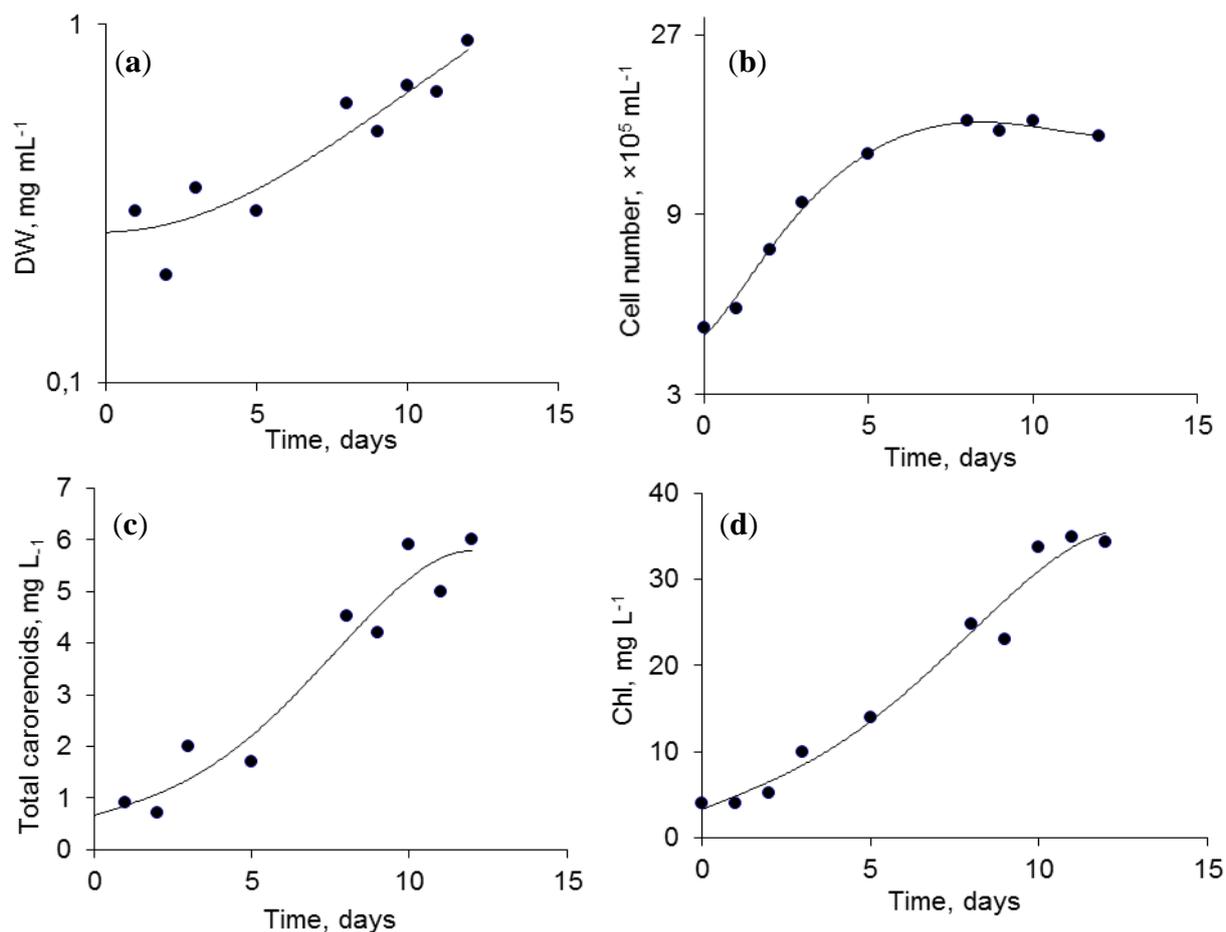


## Supplementary Information

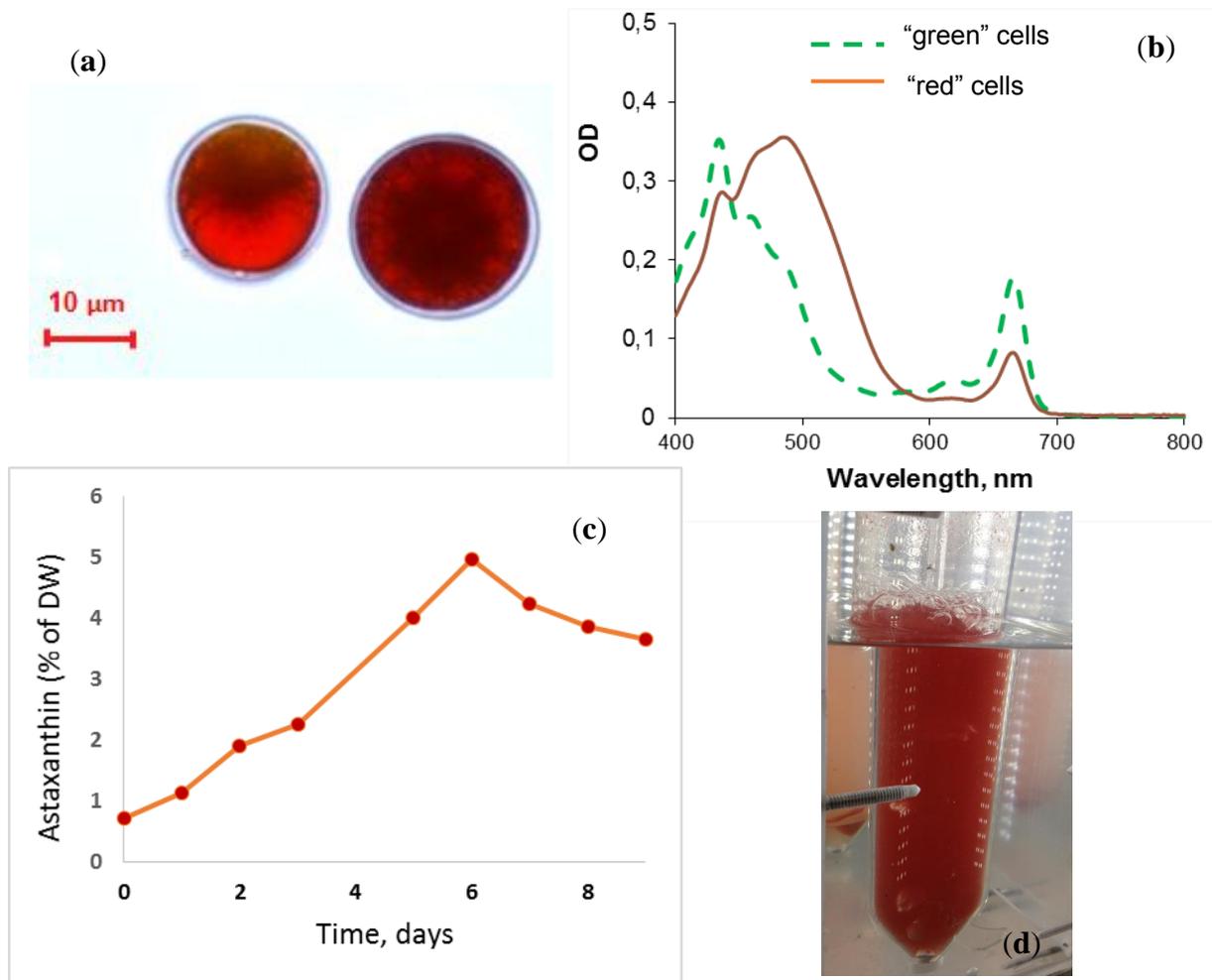
**Table S1.** Representative climatic parameters at the site of sample collection (summer, 2011).

Month	Temperature, °C							Relative Humidity, %		
	Air			Sea Water			Rock Bath	Avg.	Min	Max
	Avg.	Min	Max	Avg.	Min	Max	Max	Avg.	Min	Max
June	13.5	4.5	30.5	10.0	4.4	14.7	31.5	69.2	24.5	95.5
July	16.1	6.6	25.7	14.5	8.5	16.9	40.2	75.2	35.1	96.4
August	12.7	6.0	23.4	14.5	10.4	16.8	29.6	76.8	34.6	95.6

**Figure S1.** Typical growth parameters of *H. pluvialis* BM1 “green” cell culture in the bubble column photobioreactor (see the Experimental section and). (a) Dry weight accumulation; (b) Changes in cell density; (c) Dynamics of total carotenoids and (d) chlorophylls.



**Figure S2.** (a) The “red” cells of *H. pluvialis* BM1; (b) Absorbance spectra of the pigments extracted with dimethyl sulfoxide from the “green” cells and the “red” cells formed after a two-day stress exposition; (c) Kinetics of astaxanthin accumulation in *H. pluvialis* BM1 cells incubated under the stressful conditions (see the Experimental section); (d) The ‘red’ cells of *H. pluvialis* BM1 in the photobioreactor after a two-day stress exposition.



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