

Synopsis:

SUB
MARINE
CONSULTING

some collateral aspects of DCS

- A collection of papers / essays / presentations
 - and their URLs at researchgate.net,
 - related to DCS (decompression sickness), PBPK (physiologically based pharmaco-kinetic models), diving
 - and their somewhat remote, unusual or at least,
 - unorthodox aspects
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- DOI:
 - <http://dx.doi.org/10.13140/RG.2.2.22131.66087>

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Topic		Ref.
Cusp Catastrophe	Hypothetical relation between DCS and cuspid (non-linear) catastrophe functions	[1]
Dive Tables	Historical developments and various approaches to tabulate dcs-free dives	[10]
Super-fast Compartments	Theoretical loci of very fast inertgas absorption and high perfusion rates	[11]
Haldane & „2:1“	One of the first PBPK used to tabulate dcs-free air-dives for surface-supplied hard hat/helmet divers	[12]
Gradientfactors	On the numerical evaluation of calculating stop-times for trimix dives and the use of a linear scaling to hide implementation weaknesses in commercial off-the-shelf desktop decompression-software.	[13]

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Topic	DOI	Ref.
Heliox Jump Dive	10.13140/RG.2.2.24608.20482/1	[2]
MT92 comparison	10.13140/RG.2.2.34271.38567	[3]
DCIEM, USN comparison	10.13140/RG.2.2.28277.40169	[4]
DGUV40 comparison	10.13140/RG.2.2.10079.28324	[5]
Yo-Yo / fish farming	10.13140/RG.2.2.15432.75522	[6]
P(DCS) models compared	10.13140/RG.2.2.17249.74084	[7]
SAA „deep stop“ table	10.13140/RG.2.2.24738.04800	[8]
Comparison with COMEX	10.13140/RG.2.2.10536.39685	[9]

References (1):

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[1] Salm, Albi (2020) [Is DCS a “cusp” catastrophe?](https://www.researchgate.net/publication/342134960_Is_DCS_a_CUSP_catastrophe)

https://www.researchgate.net/publication/342134960_Is_DCS_a_CUSP_catastrophe

[2] Salm, Albi (2020) [ZH-L 12 : Validation of an old \(1982\) experimental Heliox jump dive \(30 m, 120 min\)](https://doi.org/10.13140/RG.2.2.24608.20482/1)

[DOI: 10.13140/RG.2.2.24608.20482/1](https://doi.org/10.13140/RG.2.2.24608.20482/1)

[3] Salm, Albi (2021) [The mapping of a french air diving table \(MT92\) to a standard Haldane- / Workman- /Schreiner-algorithm](https://doi.org/10.13140/RG.2.2.34271.38567)

[DOI: 10.13140/RG.2.2.34271.38567](https://doi.org/10.13140/RG.2.2.34271.38567)

[4] Salm, Albi (2020) [Comparison of the air-diving tables ZH-86 and DCIEM with DGUV40 & DIVE V 3_09](https://doi.org/10.13140/RG.2.2.28277.40169)

[DOI: 10.13140/RG.2.2.28277.40169](https://doi.org/10.13140/RG.2.2.28277.40169)

[5] Salm, Albi (2020) [Is the DGUV40 adequate for underwater-"work"?](https://doi.org/10.13140/RG.2.2.10079.28324)

[DOI: 10.13140/RG.2.2.10079.28324](https://doi.org/10.13140/RG.2.2.10079.28324)

References (2):

[6] Salm, Albi (2020) On the theoretical evaluation of one yo-yo diving profile on air for fish-farming

DOI: 10.13140/RG.2.2.15432.75522

[7] Salm, Albi (2020) On the statistical probability of contracting a decompression sickness after a single scuba dive on air within a no-decompression-limit

DOI: 10.13140/RG.2.2.17249.74084

[8] Salm, Albi (2020) A „deep stop“ table for recreational dives on air: Debunked!

DOI: 10.13140/RG.2.2.24738.04800

[9] Salm, Albi (2020) Adaption of a COMEX procedure for recreational bounce dives on air

DOI: 10.13140/RG.2.2.10536.39685

References (3):

[10] Salm, Albi (2020) Historical Dive Tables / historische Tauchtabeln
DOI: 10.13140/RG.2.2.32813.03042

[11] Salm, Albi (2018) Essay on fast & super-fast compartments
DOI: 10.13140/RG.2.2.30451.35366

[12] Salm, Albi (2016) Did Haldane really use his "2:1"?
DOI: 10.13140/RG.2.2.21318.91209

[13] Salm, Albi (2012) Decompression-Calculations for Trimix Dives with PC-Software; Gradient Factors: do they repair defective algorithms or do they repair defective implementations?
DOI: 10.13140/RG.2.2.35405.87527