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Hatching mechanism and accelerated hatching of the eggs of sac-spawning euphasiid *Nematoscelis difficilis*

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Observation of the sac-spawning euphausiid Nematoscelis difficilis Hansen during shipboard laboratory incubations showed that its embryos usually hatch as pseudometanauplius (PMN) or metanauplius (MN). The deglesy eldepish Witherna reaction to hearish technical sate phartical sate phartical after older and embryos in a swimming movement, breaking the chorion into almost equal halves joined by one small section in the putches right blackwalds rive in the first diables splaya date metanty to color and towards the proximal end of the ovigerous sac. The time between hatching of the first and last embryo may reflect the time the females require to lay a clutch of eggs (<2.1 h). Development time to the PMN stage at 10°C was 55–60 h and to MN stage 84 h. Eggs of one brood of N. difficilis hatched backwards at 47 h as nauplius 2 (N2) rather than as PMN or MN. This is the second observation of early hatching by any sac-spawning euphausiid species. Therefore, a morphological description is provided of the free-swimming N. difficilis N2. It is expected that N. difficilis N2 could

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