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ABSTRACTS
LIFE HISTORY AND PHENOLOGY OF HYDROCLATHRUS CLATHRATUS
(SCYTOSIPHONACEAE, PHAEOPHYCOTA) IN THE AZORES

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Hydroclathrus clathratus (C.Agarch) Howe (Scytosiphonaceae, Phaeophycota) is a
common species in the rocky intertidal shores of São Miguel, Azores, mainly in spring
and summer. Fertile erect thalli appear in spring and disappear from late summer
onward. Life-history studies of this species were carried out in culture. The species
showed a heteromorphic life-history pattern with an alternation between the erect thalli
and a filamentous prostrate thallii. A few reproductive cells from the plurilocular organs of
erect thalli developed directly into new erect plants. Other developed into filamentous
prostrate thallii bearing unilocular and plurilocular sporangia in both short-day and long-
day conditions at 15-22°C. Zoospores released from unilocular sporangia developed into
saccate plants and plurispores gave rise to filamentous prostrate thalli.