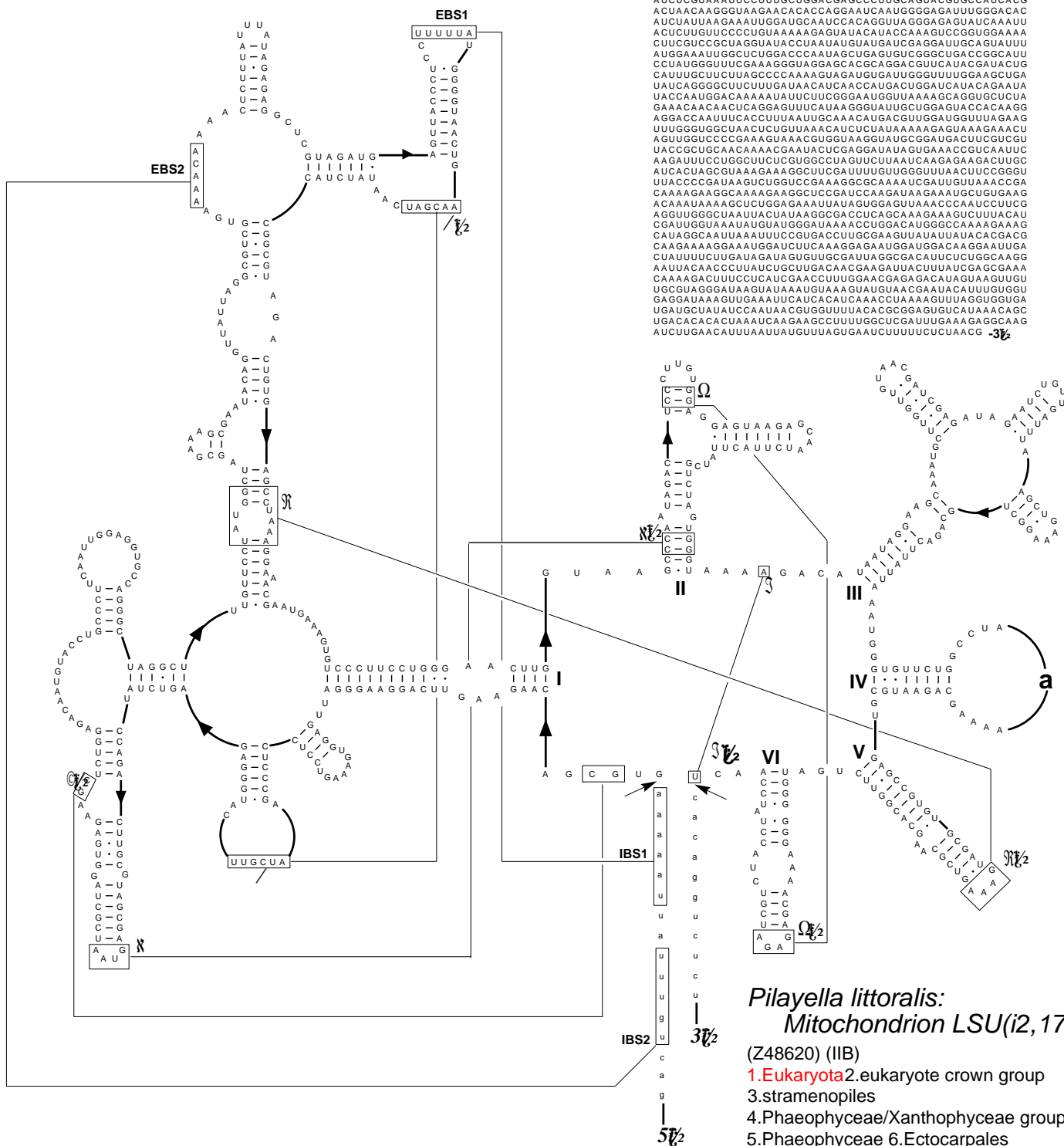
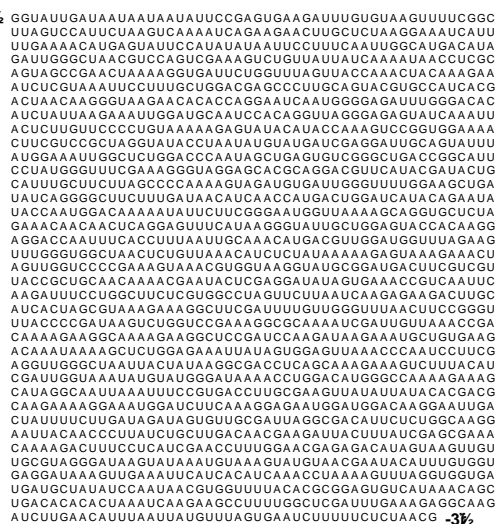


**a**  $5\frac{1}{2}$



*Pilayella littoralis*:  
Mitochondrion LSU(i2,1787)  
(Z48620) (IIB)

1. Eukaryota 2. eukaryote crown group
3. stramenopiles
4. Phaeophyceae/Xanthophyceae group
5. Phaeophyceae 6. Ectocarpales
7. Ectocarpaceae 8. *Pilayella*

October, 2000