

PLATE XL.

Figs. 1, 2. *Leptoclinum tenue*, var. *magnizoidium*, nov.

Figs. 3–5. *Leptoclinum tenue*, n. sp.

Figs. 6–9. *Leptoclinum jeffreysi*, n. sp.

Figs. 10–15. *Leptoclinum albidum*, var. *luteolum*, Verrill.

bl. Bladder cell.
br. Branchial aperture.

l.s. Lower surface of colony.
t.m. Test matrix.

u.s. Upper surface of colony.

- Fig. 1. Colony of *Leptoclinum tenue*, var. *magnizoidium*; natural size.
- Fig. 2. Spicule from test of *Leptoclinum tenue*, var. *magnizoidium*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 3. Colony of *Leptoclinum tenue*, from North Atlantic (H.M.S. "Porcupine"); natural size.
- Fig. 4. Spicules of the ordinary size from test of *Leptoclinum tenue*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 5. Very large spicule from test of *Leptoclinum tenue*; highly magnified (S., $\frac{1}{4}$ inch).
Figures 2, 4, and 5 are drawn to the same scale. Spicules of sizes intermediate between those shown in figures 4 and 5 are also present.
- Fig. 6. Colony of *Leptoclinum jeffreysi*; natural size.
- Fig. 7. Vertical section through colony of *Leptoclinum jeffreysi*; magnified (S., 1 inch).
- Fig. 8. Part of section through lower part of colony of *Leptoclinum jeffreysi*, showing structure of test; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 9. Spicule from test of *Leptoclinum jeffreysi*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 10. Colony of *Leptoclinum albidum*, var. *luteolum*; natural size.
- Fig. 11. Another colony of *Leptoclinum albidum*, var. *luteolum*; natural size.
- Fig. 12. Spicules from test of *Leptoclinum albidum*, var. *luteolum*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 13. Larva of *Leptoclinum albidum*, var. *luteolum*, showing well-developed branchial sac co-existing with larval tail, adhering organs, &c.; magnified (S., 1 inch).
- Fig. 14. Part of test of tailed larva of *Leptoclinum albidum*, var. *luteolum*; highly magnified (S., $\frac{1}{4}$ inch).
- Fig. 15. Adhering organ of tailed larva of *Leptoclinum albidum*, var. *luteolum*; highly magnified (S., $\frac{1}{4}$ inch).