

## PLATE XX.

### *Cystodytes philippinensis*, n. sp.

<p><i>ab.</i> Abdomen of Ascidiozoid.  <i>at.</i> Atrial aperture.  <i>br.</i> Branchial aperture.  <i>bl.</i> Bladder cell.  <i>br.si.</i> Branchial siphon.  <i>cap.</i> Calcareous capsule around Ascidiozoid.</p>	<p><i>l.s.</i> Lower surface of colony.  <i>m.</i> Mantle.  <i>mar.</i> Free margin of colony.  <i>sg.</i> Stigmata of branchial sac.  <i>sp.</i> Calcareous spicule in test.  <i>t.</i> Test.</p>	<p><i>t.c.</i> Test cells.  <i>t.c'.</i> Modified test cells.  <i>th.</i> Thorax of Ascidiozoid.  <i>t.m.</i> Test matrix.  <i>tr.</i> Transverse vessel of branchial sac.  <i>u.s.</i> Upper surface of colony.</p>
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- Fig. 1. Colony of *Cystodytes philippinensis*; natural size.
- Fig. 2. Another colony of *Cystodytes philippinensis*; natural size.
- Fig. 3. Vertical section of part of colony of *Cystodytes philippinensis*; slightly enlarged.
- Fig. 4. Calcareous spicules from test of *Cystodytes philippinensis*; A, from side, B, from edge; highly magnified (S.,  $\frac{1}{4}$  inch).
- Fig. 5. Part of section of colony of *Cystodytes philippinensis*, showing relation of Ascidiozoid to test and spicules; magnified (S., 1 inch).
- Fig. 6. Section of test of *Cystodytes philippinensis*; highly magnified (S.,  $\frac{1}{8}$  inch).
- Fig. 7. Anterior part of Ascidiozoid of *Cystodytes philippinensis*; magnified (S., 1 inch).
- Fig. 8. Part of branchial sac of *Cystodytes philippinensis*; magnified (S., 1 inch).
- Fig. 9. Part of test from lower surface of colony of *Cystodytes philippinensis*; magnified (S., 1 inch).
- Fig. 10. Surface layer of test of *Cystodytes philippinensis*, seen from interior, showing branchial apertures; magnified (S., 1 inch).
- Fig. 11. Diagrammatic vertical section of colony of *Cystodytes philippinensis*, showing arrangement of Ascidiozooids and their relation to calcareous capsule; magnified.
- Fig. 12. Part of vertical section of upper surface of colony of *Cystodytes philippinensis*, showing structure of test; magnified (S., 1 inch).