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Figure 1 – Sampling locations. A, Sars Seamount, B Shackleton Fracture Zone. Inset: box indicates the area shown in larger figure.

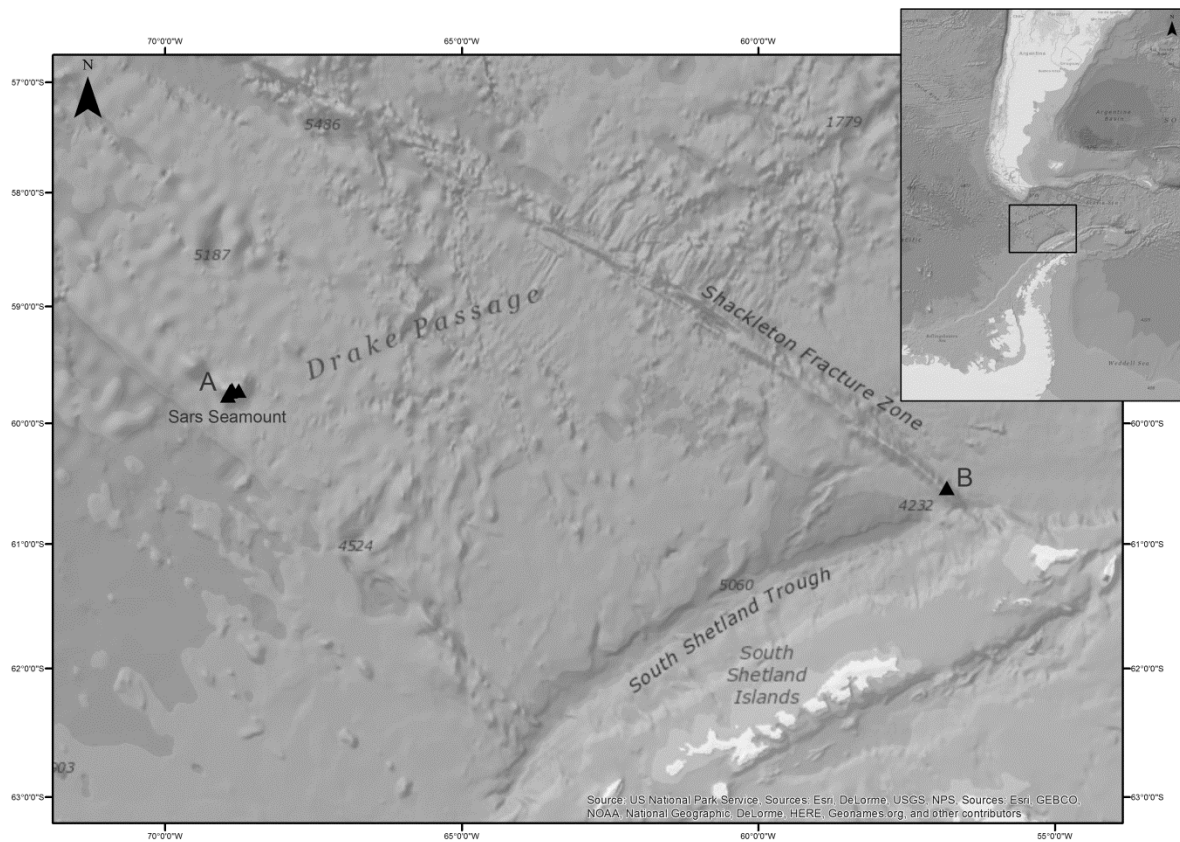


Figure 2. *Aulocalyx irregularis*, specimen BELUM.Mc2015.308. A. Collected specimen, scale in cm; B. Skeletal framework, Scale bar 1000  $\mu$ m, SEM; C. Pentactin, scale bar 100  $\mu$ m, SEM; D. Discohexaster, scale bar 10  $\mu$ m, SEM; E. Rhopalaster, scale bar 100  $\mu$ m, SEM.

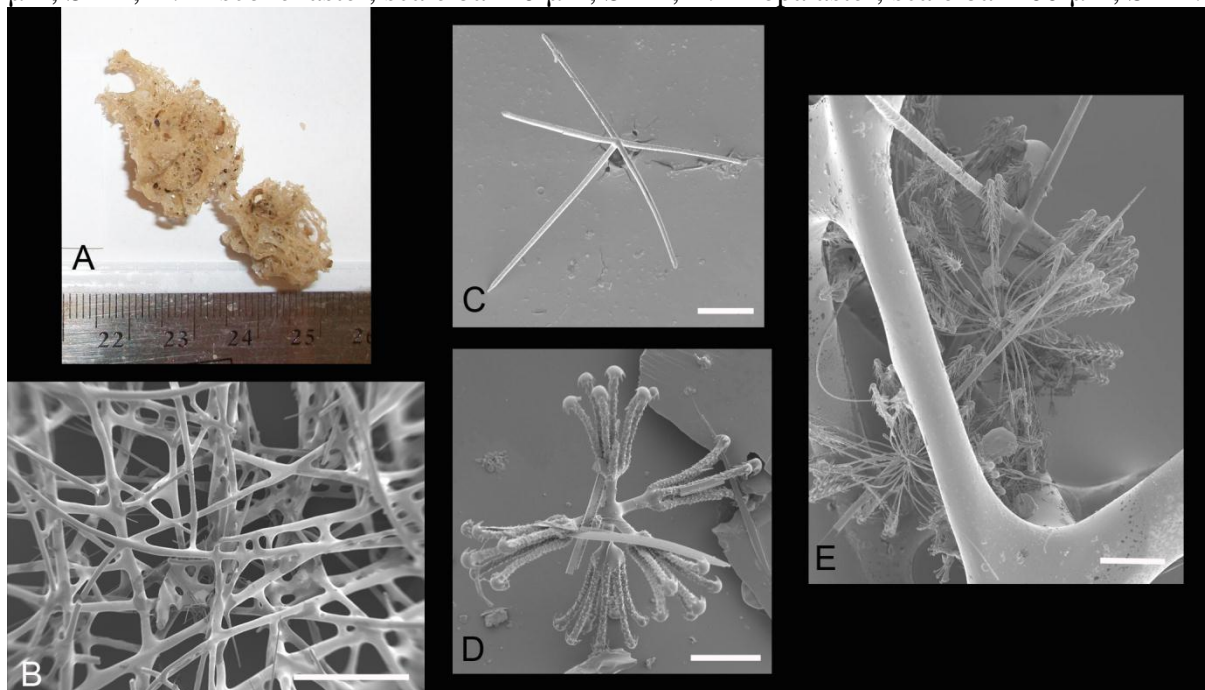


Figure 3. *Doconesthes robinsoni* sp. nov. Type specimen MNHNCL POR-15002. A. Freshly collected specimen, scale in cm; B. Rehydrated specimen, scale in cm; C. Atrium of rehydrated specimen, scale in cm; D. Hypodermal pentactin, illustration traced from light microscope image, scale 100  $\mu$ m; E. Atrial hexactine, illustration traced from light microscope image, scale 100  $\mu$ m; F. End of choanosomal diactin, scale 200  $\mu$ m, light microscope; G. Dermal diactin, scale 100  $\mu$ m, light microscope; H. Hemioxyhexaster, scale 10  $\mu$ m, SEM; I. Strobiloplumicome, scale 10  $\mu$ m, SEM, the frontal ray is missing.

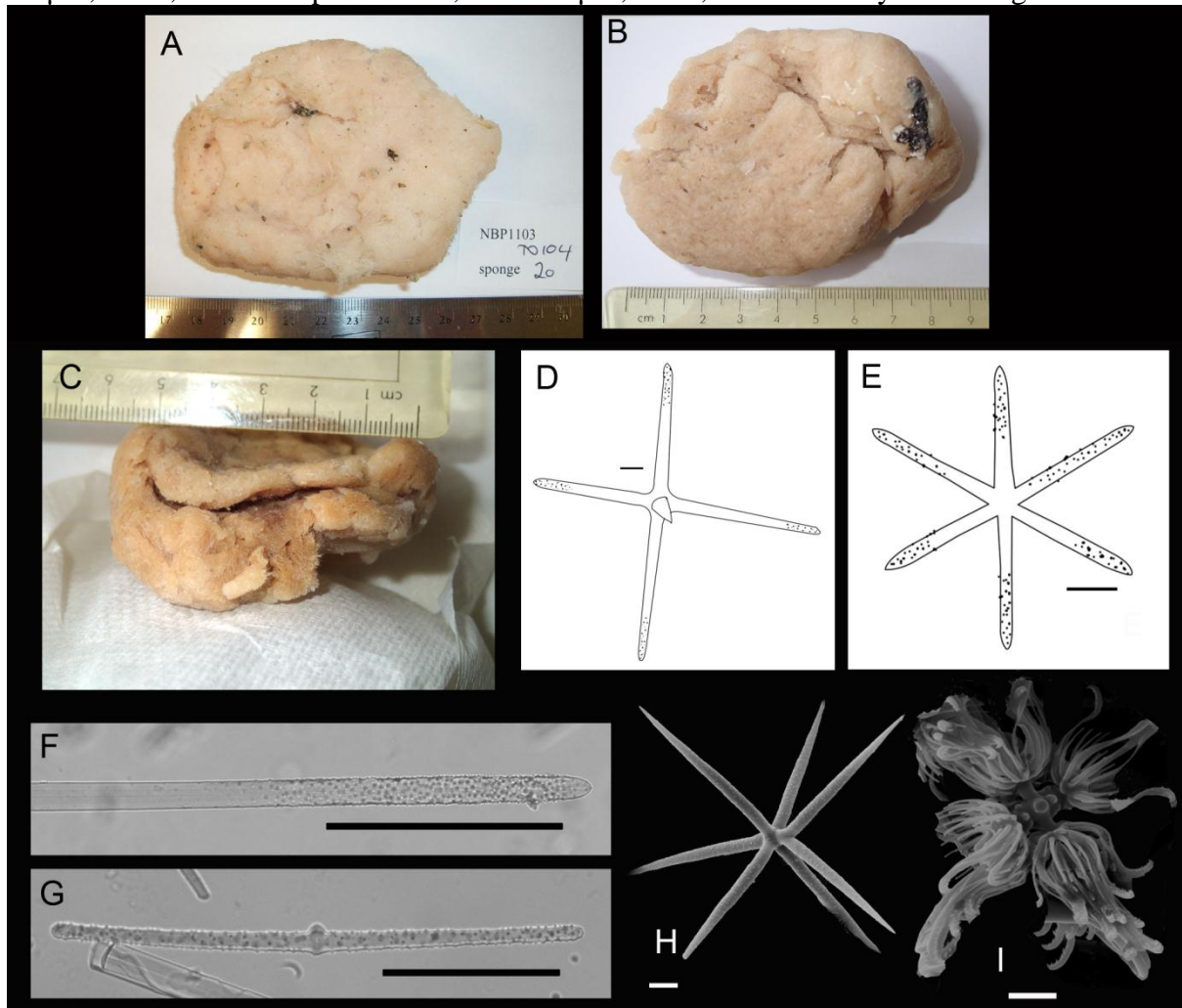


Figure 4. *Sympagella walleri* sp. nov. Type specimen MNHNCL POR-15003, strobiloplumicome image G from BELUM.Mc2015.313. A. Collected specimen; B. End of diactin, scale bar 200  $\mu$ m, light microscope; C. Dermal pentactin, scale bar 100  $\mu$ m, illustration traced from light microscope image; D. Dermal hexactin, scale bar 100  $\mu$ m, illustration traced from light microscope image; E. Pinular hexactin, scale bar 10  $\mu$ m, SEM; F. Discohexaster, scale bar 10  $\mu$ m, SEM; G, H. Strobiloplumicome, scale bar 10  $\mu$ m, SEM.

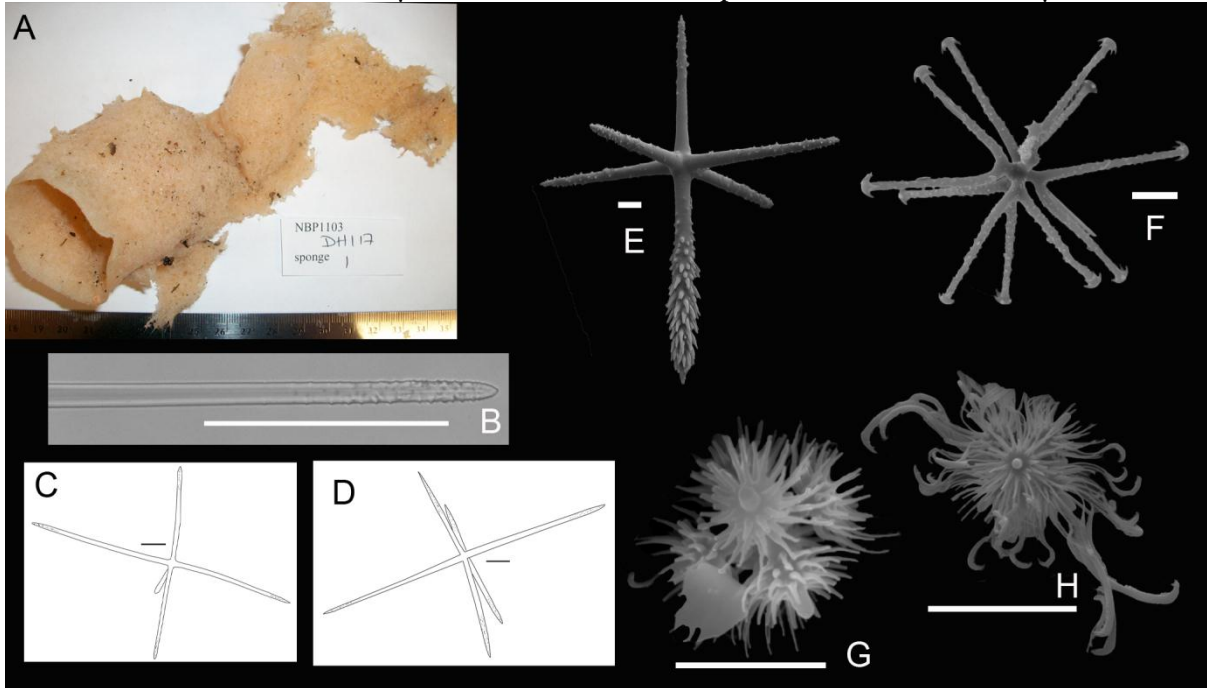


Figure 5. *Caulophacus palmeri* sp. nov. Type specimen MNHNCL POR\_15001. A. collected specimen, scale in cm; B. end of diactin, scale bar 10  $\mu$ m, SEM; C. pentactin, scale bar 100  $\mu$ m, illustration traced from light microscope image; D. hexactin, scale bar 100  $\mu$ m, illustration traced from light microscope image; E. pinular hexactin, scale bar 10  $\mu$ m, SEM; F. discohexactin, scale bar 10  $\mu$ m, SEM.

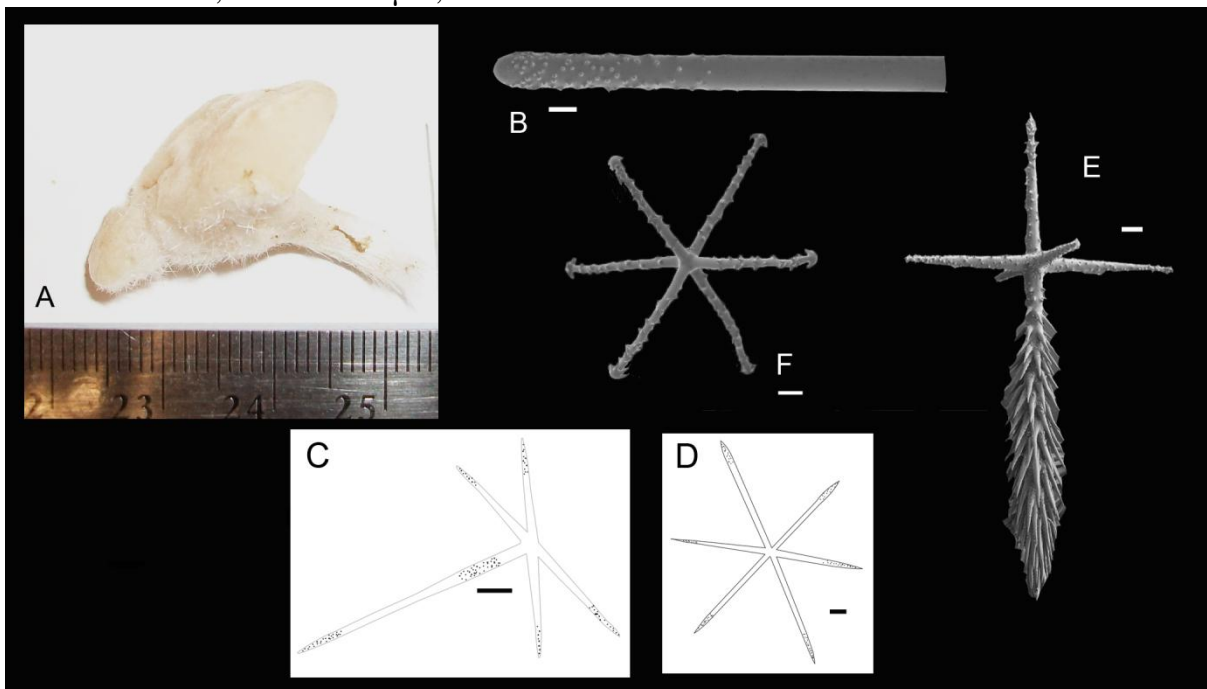




Figure 6. *Rossella antarctica*: A. Collected specimen BELUM.Mc2015.284; B. Specimen BELUM.Mc2015.335; C. Rays of a calycocone from BELUM.Mc2015.284 (scale bar 10um); D. Microdiscohexaster from BELUM.Mc2015.284 (scale bar 10  $\mu$ m).

