A group of key stakeholders was then assembled to thoroughly evaluate the issue and report their findings. This working group was composed of research scientists, educators, fishermen, marine conservation interest groups and ocean management agencies. The working group concluded that Davidson Seamount met the criteria for sanctuary designation laid out in the National Marine Sanctuaries Act. A majority of the group recommended that its inclusion in the MBNMS be further considered in the development of a draft management plan for the sanctuary. The MBNMS Advisory Council concurred with these findings and recommended that NOAA move forward with the process of inclusion of Davidson Seamount in the MBNMS. NOAA is currently considering these recommendations.



Vermillion crab (Paralomis verrilli) dangling from yellow sponge (Staurocalyptus sp.)

#### **How Can I Get Involved?**

The public opportunity for formal comment about this and other issues will occur during the hearings on the Draft Management Plan and Draft EIS, scheduled for release in Spring, 2005. However, comments on this and other management plan issues may be sent to the Sanctuary Program at any time.

### **Additional Resources**

To send email comments or learn more about the Davidson Seamount Action Plan, go to:

http://sanctuaries.nos.noaa.gov/jointplan

To learn more about Davidson Seamount and other seamounts, visit the SIMoN website at:

http://www.mbnms-simon.org/sections/ seamounts/overview.php?sec=s

To learn about a recent expedition to Davidson Seamount, go to:

http://oceanexplorer.noaa.gov/explorations/ 02davidson/davidson.html





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## **Davidson Seamount**

#### What Is A Seamount?

Seamounts are underwater mountains with steep sides rising over 3,280 feet (1,000 meters) above the surrounding seafloor. There are over 30,000 seamounts in the Pacific Ocean alone, yet remarkably, less than 0.1% of the seamounts in the world have been explored.

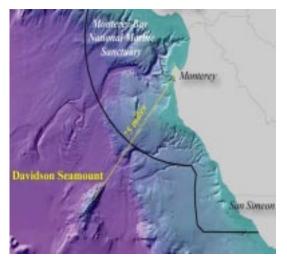
Studies that have been conducted over seamounts indicate that seamounts function as "oases of life," with higher species diversity and biomass found on the seamount and in the waters around it than on the seafloor. Seamounts rise up high in the water column, creating complex current patterns influencing what lives on and above them. Seamounts also provide substrate (a location for attachment) where organisms can settle and grow. These organisms provide a food source for other animals. Scientists have found that seamounts often provide habitat to endemic species, species found only in a single location.

There are several seamounts located just beyond the boundaries of the National Oceanic and Atmoshpheric Administration's (NOAA) Monterey Bay National Marine Sanctuary (MBNMS). These include Gumdrop, Pioneer, Guide and Davidson Seamounts.

## What Makes Davidson Seamount Different From Other Seamounts?

Davidson Seamount is located 75 miles (120 km) southwest of Monterey (See map). It is 26 miles (42 km) long and 8 miles (13 km) wide. From base to crest, Davidson Seamount is 7,874 feet (2,400 m) tall, yet the top still sits 4,101 feet (1,250 m) below the sea surface.

Conservation Qualities: Davidson Seamount is the largest seamount in the western Pacific Ocean and is one of the largest seamounts in the world. No seamounts are currently protected by sanctuary status in the United States. The seamount is home to fragile, large, coldwater coral colonies with some species several hundred years old.



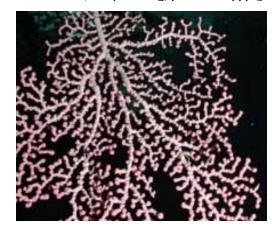
Davidson Seamount and Sanctuary Boundary

# Would Existing Fisheries Be Affected?

the seamount. m) of water, 3,951 feet (1,204 m) above tuna — operate in the top 150 feet (46 fish and sharks, and trolling for albacore Seamount — drift gill netting for swordactive in the waters above Davidson affected. Two commercial fisheries are No existing fishing activities would be

## What Is The Process?

review process. further as part of the management plan Davidson Seamount should be evaluated MBMMS Advisory Council agreed that to the MBVMS management plan. The gather early input on potential revisions held in the fall/winter of 2002-2003 to raised during public scoping meetings Inclusion of Davidson Seamount was



Bubblegum coral (Paragorgia sp.)

them, can damage fragile ecosystems. growing species, even to learn more about Paragorgia. Unmanaged collection of slow growing coral species, including Davidson Seamount has several rare pink bubblegum coral, Paragorgia. studying deep sea corals such as the large wide, there has been increased interest in Cumulative Research Collection: World-

years. can wipe out ancient corals for hundreds of could cause severe damage. One test trawl harvest with new deep sea techniques mount become apparent, commercial commercial species on Davidson Seadiscoveries of precious corals or other munities in other parts of the world. If activities have destroyed seamount comat Davidson Seamount. However, these no known commercial harvesting activity Seafloor Harvesting: Presently, there is

from targeted offshore dumping. Seamount area is not presently protected Marine Debris/Dumping: The Davidson

# How Is MBUMS Involved?

Monterey Bay National Marine Sanctuary. Seamount through inclusion in the sources and qualities of the Davidson NOAA is considering protecting the re-

> and presentations. newspaper articles, television broadcasts websites, visitor centers, CD products, topography are available via NOAA as well as the seamount's remarkable including fishes, corals, and invertebrates Davidson Seamount's unique creatures quality photographs, maps and video of Aesthetic Qualities: Hundreds of high-



Venus Fly Trap Anemone (Hormathiidae)

## Seamount? What Are The Threats To Davidson

variety of potential threats: not protect Davidson Seamount from a Existing federal and state regulations do seamount or the surrounding ecosystem. place to protect the organisms on the conservation and management scheme in There is currently no comprehensive

ecosystem. commercial use can damage the fragile sive collection of sensitive species for targeted for commercial products. Extenisms found on seamounts have been Bio-prospecting: Some groups of organ-

> central California seamounts. logical diversity is not found on other patches of corals and sponges. This biospecies assemblages including large previously undiscovered species and 2002 research expedition documented ing a diversity of habitats and sea life. A has a pristine undersea ecosystem contain-Ecological Qualities: Davidson Seamount

makes it accessible for further study. proximity to scientific research institutions Davidson Seamount. The seamount's deal from the information gathered at resolution maps, scientists can learn a great history of detailed research dives and highstudied seamounts in the world. With a Seamount and it is now one of the bettertions and universities to explore Davidson partnership with marine research institu-Scientific Qualities: NOAA has worked in

rently a focus of other federal programs. and seafloor topography. This is not curseamounts, cold-water sponges and corals, opportunities to educate the public about Monterey Bay Aquarium offer excellent National Marine Sanctuary and the Seamount's proximity to the Monterey Bay Education Qualities: Davidson

charting and mapping. George Davidson, a historic figure in early mapped in 1933 and was named for described as a "seamount." It was first Seamount was the first geologic featured Historical Significance: The Davidson