Scientific and commercial diver

Eine Forschungstaucherin vermisst für Universitäten und Unternehmen die Unterwasserwelt – sowohl im Meer als auch am PC.

VON MELITA CAMERON-WOOD

s a scientific and commercial <u>diver</u>, you have to carry heavy equipment and work outdoors in cold and wet conditions. It's not for everyone. Personally, I love the physical and mental challenges of the job, both in the office and in fieldwork.

Most of our work involves underwater <u>photogrammetry</u> we create 3D models of underwater objects or scenes using <u>overlapping</u> photos. Images can be taken either by divers or a <u>remotely operated vehicle</u> (ROV). We're now testing the efficiency and accuracy of divers compared with ROVs, which are increasingly common. ROVs use a combination of GPS and sonar technology. GPS alone doesn't work underwater.

Careful planning and clear <u>objectives</u> are <u>key</u>, as it's not easy to communicate underwater. My <u>dive buddy</u> and I use common diving signals and sometimes write on <u>slates</u>. Time is limited. If you spend too long underwater, your body stores too much <u>nitrogen</u>, which can lead to <u>decompression illness</u>.

Our clients are diverse. Universities ask us to measure coral erosion and marine growth. Fish farms need to see how their activities affect the <u>seabed</u>. Oil companies need <u>surveys</u> to find the best way of <u>decommissioning rigs</u>, depending on the amount of marine growth. Some old rigs are turned into artificial <u>reefs</u> to support local biodiversity. We also model <u>piers</u> and harbours, so <u>engineers</u> can check the safety of the <u>structures</u>.

When supporting scientists, my jobs include collecting <u>samples</u> of underwater plants or animals, or installing cameras on the seabed. If scientists want to collect their own data, we provide the boat. I'm a certified skipper and <u>diving supervisor</u> — my <u>role</u> changes depending on the job.

A few years ago, eggs of the <u>endangered flapper skate</u> were found near the Isle of Skye. Our photogrammetry models helped give this area protected status and stop the destructive practice of <u>bottom trawling</u>, in which fishing nets are <u>dragged</u> along the seabed. This was a really rewarding moment.

In the past, I thought a career in the highly <u>competitive ma-</u> <u>rine conservation</u> sector would be impossible, but this specialized role has made this dream come true.



"Careful

are key"

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KATHRYN

DAWSON is a scientific and commercial diver, and <u>researcher</u>. She's based in Scotland

diver - Taucher(in)
photogrammetryFotogrammetrie,Messbildverfahren
overlapping sich überlagernd
remotely operated vehicle - ferngesteuertes Fahrzeug
 objective [əb'd3ekt1v] Zielsetzung
key – entscheidend
dive buddy (ifml.) • Tauchpartner(in) (buddy • Kumpel)
slate - Schiefertafel
nitrogen ['naɪtrədʒən] • Stickstoff

decom	pression illness
 Taucharkrankhoit 	

Taucherkrankheit

Meeresgrund, -boden
 survey ['s31ve1]

Erhebung

decommission sth.etw. stilllegen

rig 🗢 Bohrinsel

reef - Riff

pier [pɪə] - Pier, Mole

engineer [,endʒı'nıə] ► Ingenieur(in)

structure
hier: Konstruktion

sample - Probe

sample - 1100

diving supervisorTauchmeister(in)

role

hier: Funktion, Position

endangered

vom Aussterben bedroht

flapper skate
 Glattrochen

bottom trawling • Grundschleppnetzfischerei

drag sth. - etw. ziehen

competitive

[kəm'petətıv] • umkämpft

marine conservation

[mə'riːn] • Meeresschutz

researcher [ri's3:t[ə]

Forscher(in),
 Wissenschaftler(in)