

## **Curriculum Vitae: Victoria. J Hill**

### **Personal Information**

**Date and Place of Birth:** Muscat, Sultanate of Oman – 22/08/1976

**Nationality:** British

### **Current Address**

Ocean, Earth and Atmospheric Sciences

4600 Elkhorn Ave, Norfolk, VA 23529.

Phone: (757) 683-4911

Fax: (757) 683-5303

E-mail: vhill@odu.edu

### **Research Interests**

Bio-optical oceanography, distribution of phytoplankton pigments, the identification of phytoplankton using in situ absorption measurements, the polar environment and remote sensing. Physical forcing on pan-arctic primary productivity, and the coupling between climate changes on land and the marine environment. Input of dissolved carbon to the Arctic and its effects on solar heating and photosynthesis.

### **Research Skills**

HPLC analysis. <sup>14</sup>C photosynthesis experiments, authorized user of radioactive material. Deployment of ac9, hydroscat and Satlantic hyperpro instruments, processing and analysis of data. Programming in Matlab, Fortran and C++.

### **Education**

#### **1998-2002 – Southampton Institute, UK – Ph.D**

Identification of phytoplankton taxonomic groups using spectral absorption characteristics.

#### **1995-1998– University of Wales, Bangor.**

Marine Biology and Oceanography (Bsc) 2:1

### **Professional and Teaching experience**

#### **2003-present - Old Dominion University, Norfolk, VA**

Post-doctoral research associate

#### **1999-2002 – Southampton Institute, Southampton, UK**

Part-time lecturer in general oceanography

### **Field Experience**

**2004** - 12 Weeks on the USCGC Healy in the Chukchi and Beaufort Seas (Project SBI)

**2000** - 4 Weeks on the R.V James Clarke Ross (BAS) Montevideo to Grimsby AMT-10

**1999** - 1 Week on R.V Celtic Voyager, west coast of Ireland (Uni. Galway)

**1995-1998** - Several short fieldwork collection activities on R.V Prince Madoc (Uni. Bangor) and R.V Weatherbird (BBSR). Numerous coastal and beach collections.

### **Professional activities**

American Society of Liminology and Oceanography (ALSO)

American Geophysical Union (AGU)

Challenger Society for Marine Science (UK)

Blue Crab Bowl science judge 2004, 2005

### **Publications**

Hill, V. Cota, G. Stockwell, D (accepted 2005) Phytoplankton succession in the Chukchi and Beaufort Seas. DSR Special Issue

Hill, V., Cota, G. (accepted 2005) Primary productivity in the Chukchi Sea: Spring to Summer. DSR Special Issue.

Hill, V., (submitted Feb 2005) Significance of dissolved carbon as a heating mechanism in surface waters of the Arctic Ocean. - Nature

Hill, V., (in preparation) Bio-optical properties and remote sensing ocean colour algorithms for the Western Arctic.

Hill, V., (in preparation) The accuracy of using IOP's to estimate chlorophyll biomass.

### **National/ International Conference Presentations**

Hill, V. 2004. Bio-optics in cold climates: Unlocking the secrets of the Arctic. Norfolk, VA, USA. 22<sup>nd</sup> November. Seminar presentation, CCPO. Old Dominion University

Hill, V. 2002. Absorption characteristics of phytoplankton communities in the Atlantic Basin. Ocean Optics XVI Conference. Santa Fe, New Mexico, USA, 18-22 November 2002. Oral presentation.

Hill, V. 2000. Identification of photosynthetic pigments from absorption spectra. UK Marine Science Meeting, Norwich, 11-15 September, 2000. Oral Presentation.

### **Conference Proceedings**

Hill, V, Cota, G, Stockwell, D. 2004. Seasonal Succession of Phytoplankton in the Chukchi Sea. Ocean Sciences Meeting, American Geophysical Union and American Society of Limnology and Oceanography, 15-20 February 2004, Honolulu, Hawaii, USA, *poster*.

Hill, V.J., G.F. Cota and D. Stockwell, 2003. Phytoplankton pigments, size distributions, and seasonal succession in the Chukchi Sea, Panarctic Shelf-Basin Interactions Meeting, Jerez, Spain, November 3-7.

Cota, G.F., V.J. Hill, X. Pan, D.A. Ruble, and J. Wang. 2003. Ocean color in the Arctic, Panarctic Shelf-Basin Interactions Meeting, Jerez, Spain, November 3-7.

Hill, V. A, Weeks. M, Darecki. I, Robinson. 2000. Phytoplankton signatures in hyperspectral absorption data. [in:] Steven G. Ackleson; Ed., Proceedings of Ocean Optics XV Conference, paper no. 1116, Monte Carlo, Monaco, 16-20 October 2000.