

New high-resolution Southwest North Atlantic Regional Climatology

Alexey Mishonov^{1,2}, Dan Seidov², Olga Baranova², Katharine Weathers^{1,3}

¹ Cooperative Institute for Satellite Earth System Studies, University of Maryland

² National Centers for Environmental Information, NOAA

³ Northern Gulf Institute, Mississippi State University

OM34A-3152

Newly developed Regional Climatology (RC) for Southwest North Atlantic [1] (Figure 1) is based on temperature and salinity observations from the 2018 release of the World Ocean Database [2]. The coverage includes the years 1955 to 2017 of annual, seasonal, and monthly fields for the entire period, as well as for each of the six decades: 1955-1964, 1965-1974, 1975-1984, 1985-1994, 1995-2004, and 2005-2017 (the last “decade” is three year longer than others to include all available data). All fields were computed on three horizontal grids: 1°x1°, 1/4°x1/4°, and 1/10°x1/10° degree.

High-resolution quality-controlled temperature and salinity fields on World Ocean Atlas [3, 4] were computed at standard depth levels from the sea surface to 4,900 m depth. Additional parameters included in SWNA RC are simple statistical means, data distributions, standard deviations, standard errors of the mean, observed minus analyzed, and seasonal minus annual.

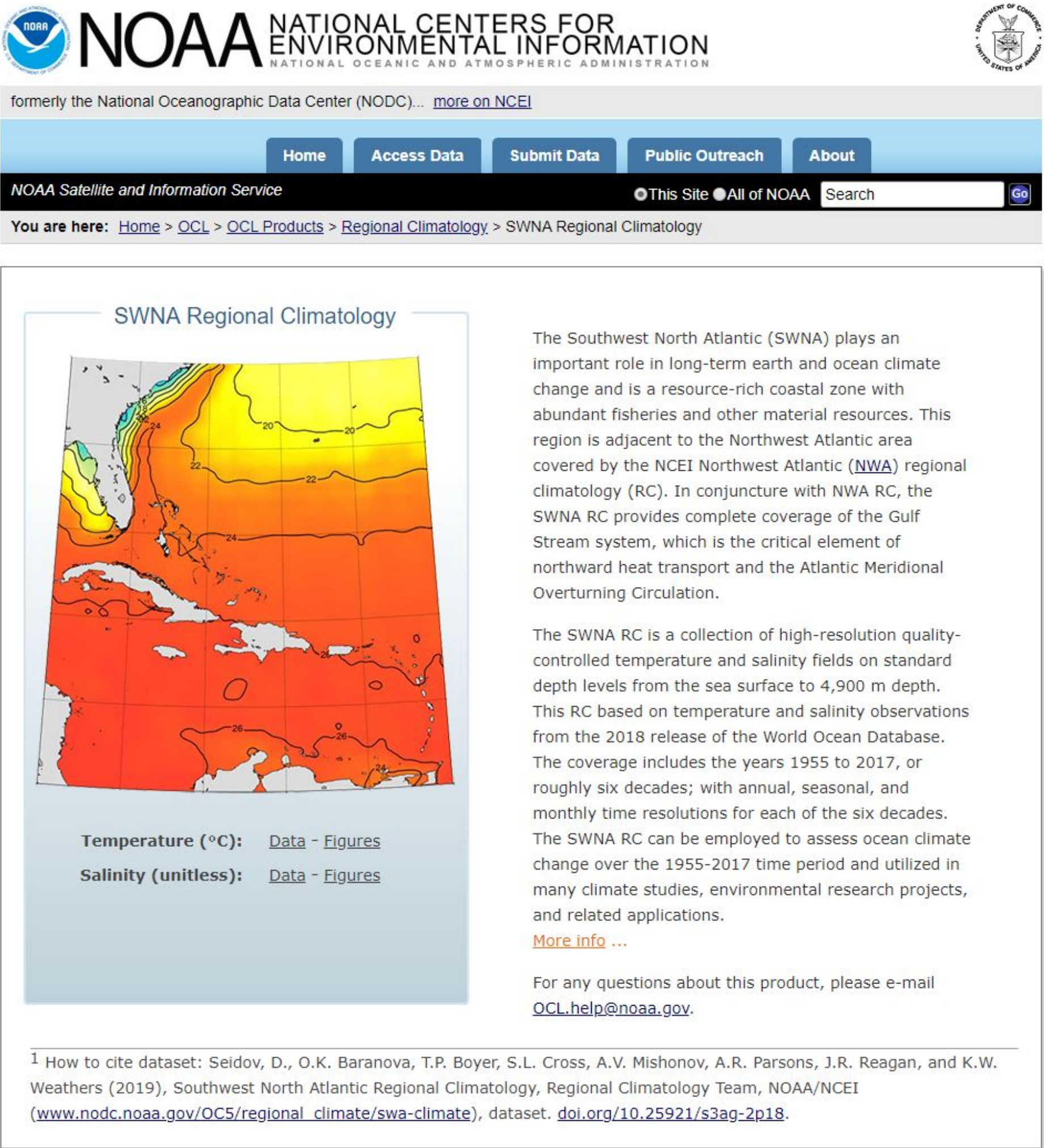


Figure 1. Southwest North Atlantic Regional Climatology main web page

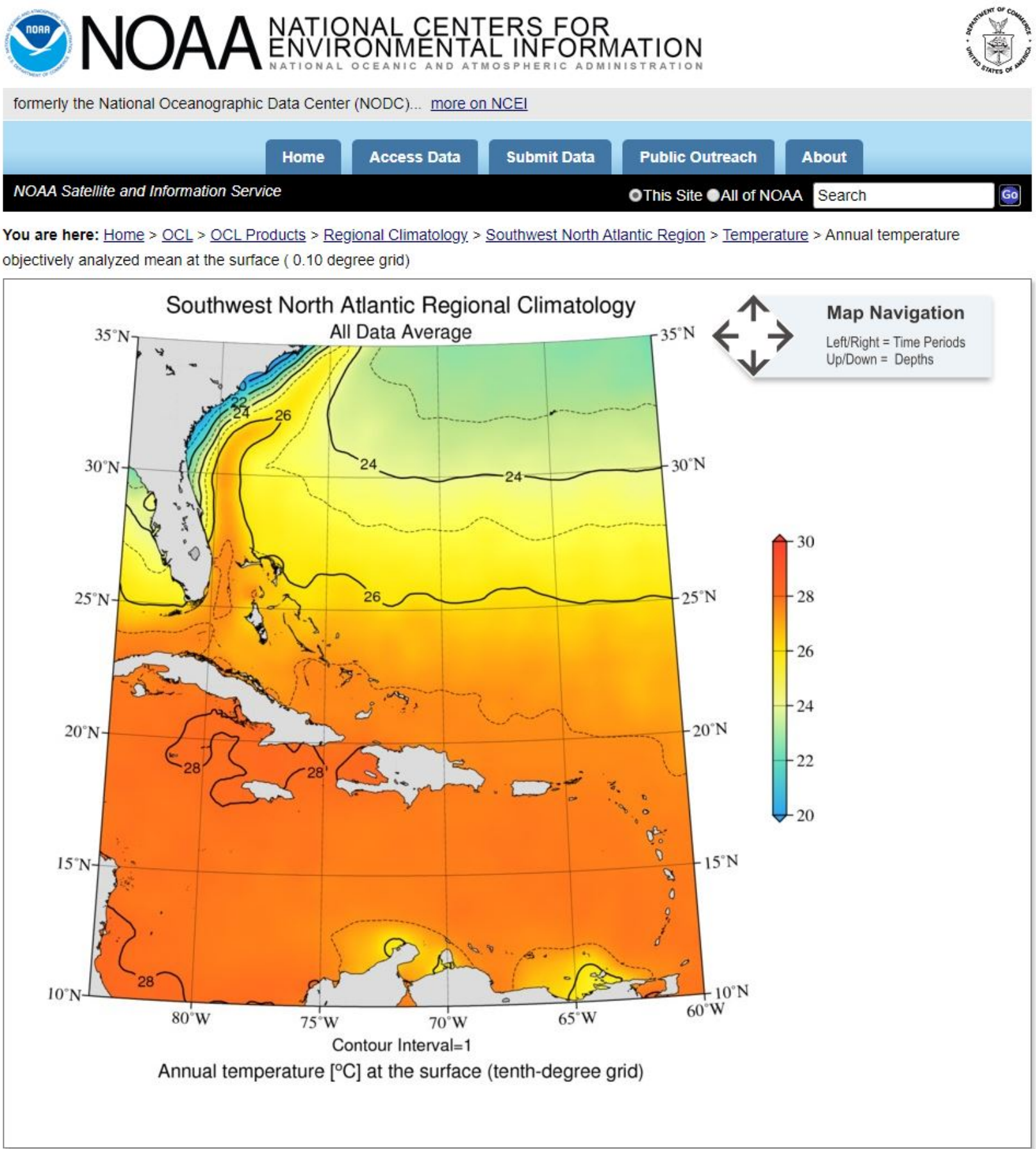


Figure 2. SWNA RC Map access page

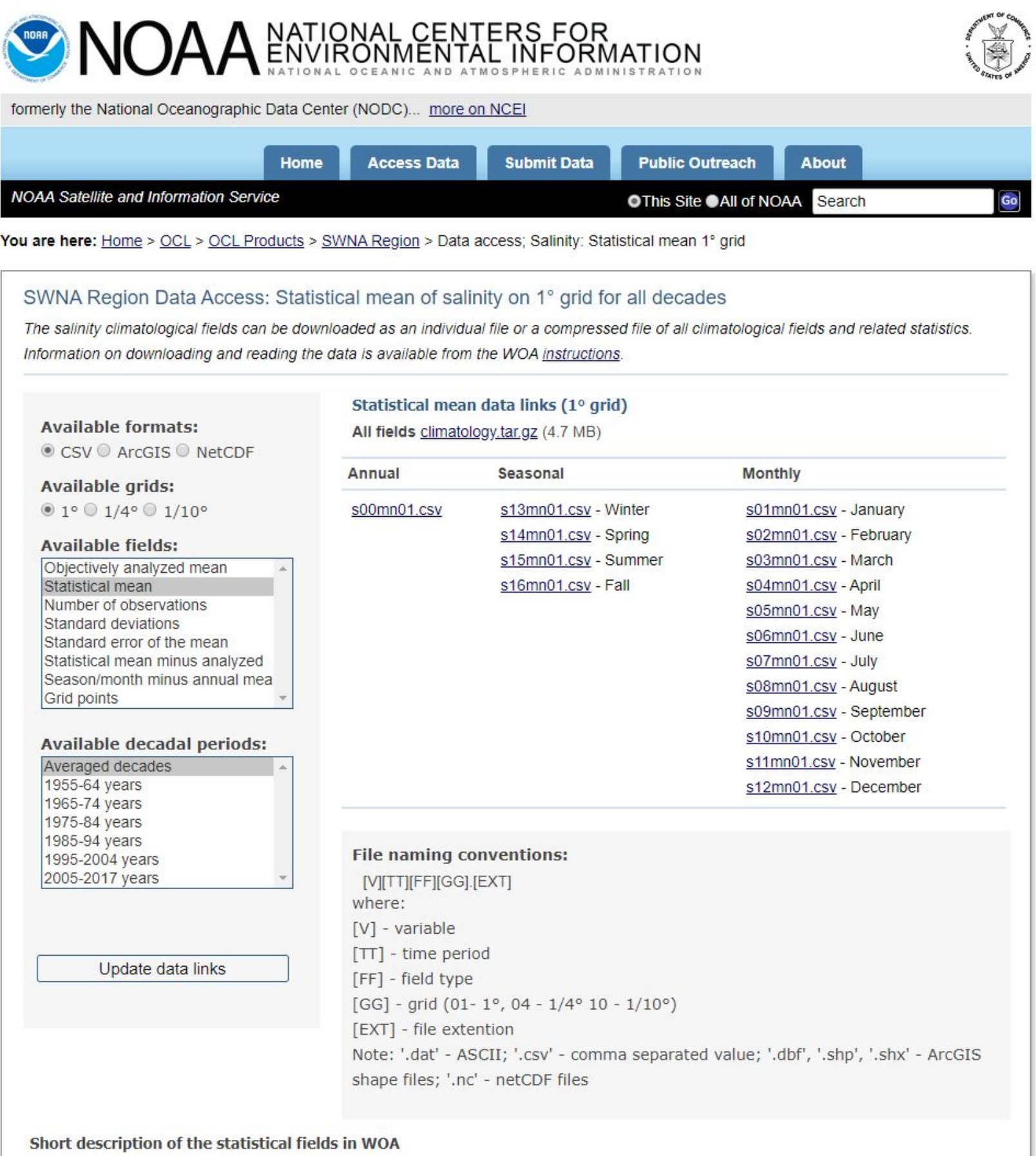


Figure 3. SWNA RC Data access page

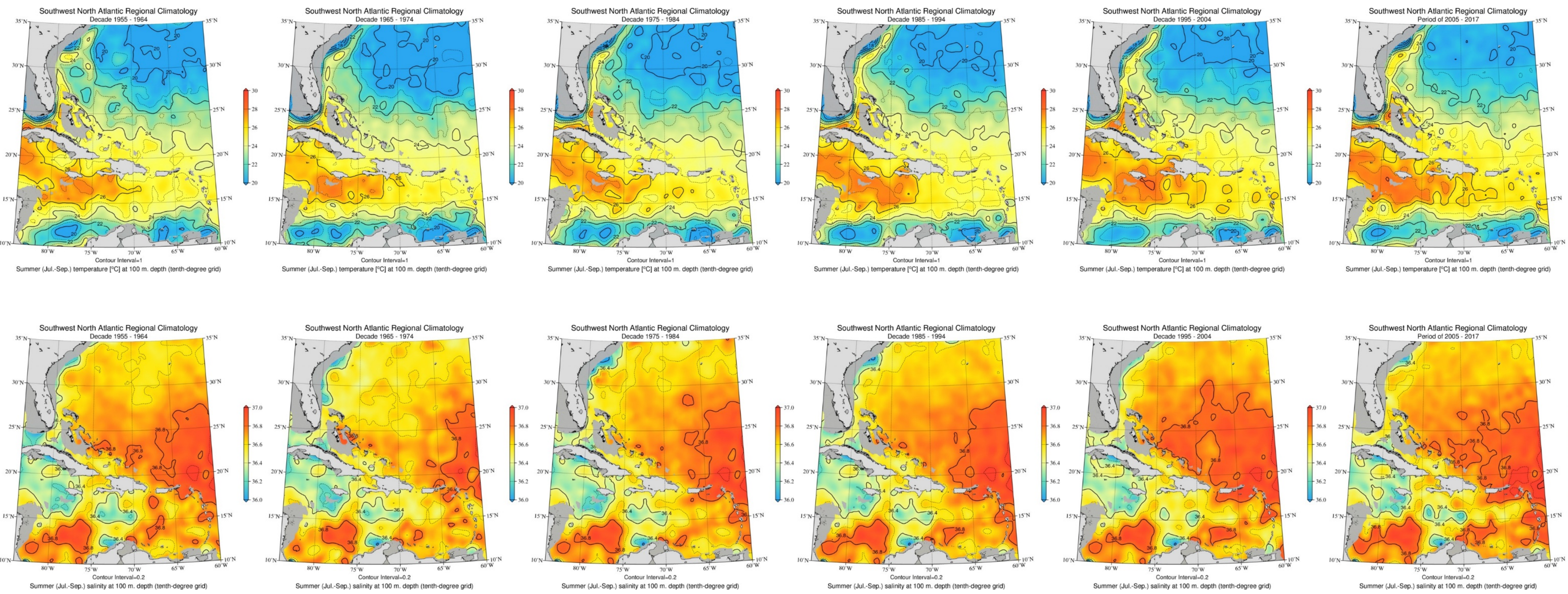


Figure 4. SWNA RC Decadal Temperature (top) and Salinity (bottom) fields on 1/10° grid @ 100m depth for Summer

References

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