



UNIVERSITY OF DELAWARE
ADVANCE INSTITUTE

TOTAL NUMBER OF PHD COMPLETIONS

% WOMEN

AND

% DOMESTIC UNDER-REPRESENTED MINORITIES

2013-15, 2015-17 & 2017-20

FOR UD AND TEN COMPARATOR INSTITUTIONS

COLLEGE OF EARTH, OCEAN AND ENVIRONMENT.

With IPEDS data obtained from UD Office of Institutional Research and Effectiveness (IRE) for PhD completions and corresponding proportion of males, females and domestic under-represented minorities (Dom URMs)[†] over the periods

- i) academic years ending June 2013, 2014 and 2015
- ii) academic years ending June 2015, 2016 and 2017 and
- iii) academic years ending June 2017, 2018, 2019 and 2020

we looked at UD’s performance alongside that of ten (10) comparator institutions.

The institutions used for comparison are selected institutions which UD might see as competitors or aspirants, and are shown in Table 1, with their corresponding U.S. News Best National Universities ranking.

Institution	2022 U.S. News Best National Universities Ranking
Brown University	14
Clemson University	75
Pennsylvania State University	63
Purdue University – Main Campus	49
Rutgers University - New Brunswick	63
University of Maryland - College Park	59
University of Massachusetts – Amherst	68
University of Michigan - Ann Arbor	23
University of North Carolina – Chapel Hill	28
Virginia Polytechnic Institute (VPI) and State University	75
University of Delaware	93

Table 1. UD and Comparator Institutions and their Ranking - <https://www.usnews.com/best-colleges/rankings/national-universities>

[†] Under-represented Minorities (URM) = Black, Hispanic, Native American Indian, Hawaiian or Other Pacific Islander

Assessment was done for College of Arts & Sciences (CAS Nat Sci), College of Engineering (COE) and College of Earth, Ocean and Environment (CEOE).

Along with showing comparator institutions which are producing high numbers of PhD graduates in particular research areas, the report highlights where women and domestic URMs are being trained, and could be useful in various ways:

- As a recruitment tool, as we seek to diversify our faculty
- For individual departments to get a sense of where they stand with respect to the number and diversity of their PhD recipients, and how that compares with select other programs.

The information may also be useful to departments doing their Academic Program Reviews.

COLLEGE OF EARTH, OCEAN AND ENVIRONMENT (CEOE)

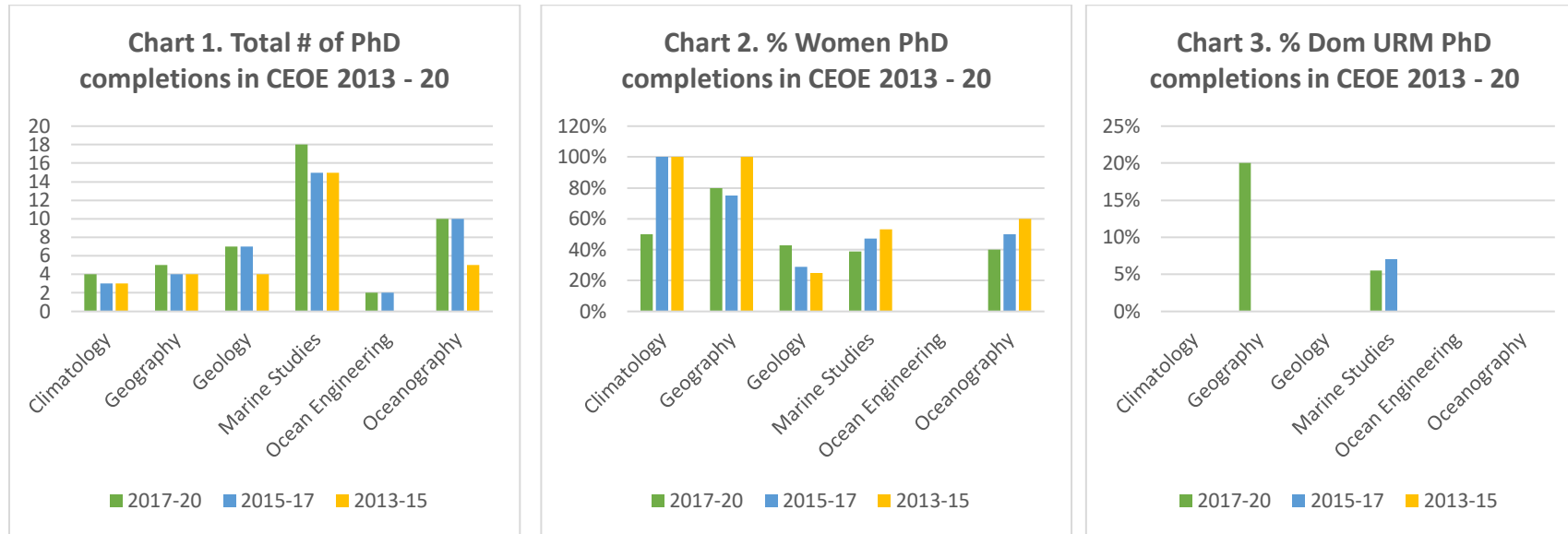
Over the periods 2013-2015, 2015-2017 and 2017-20, PhD completions in UD CEOE were as shown in Table 2. Total number of PhD graduates has risen over the three periods, from 31 graduates in 2013-15 to 46 in 2017 - 20. [Note that the first two periods under consideration span three academic years each whereas the most recent period spans four years, the last of which was affected by COVID-19.]

For the periods 2017-20, 2015-17 and 2013-15, % women graduates in CEOE was 43%, 49% and 61% respectively. Over these three corresponding periods, there has been a gradual rise in % domestic URMs, with 0% for 2013-15%, 2.4 % for 2015-17, and 4% (2017-20).

CIP Code	Research Area	Total # 2017-20	Total # 2015-17	Total # 2013-15
40.0401	Climatology	4	3	3
45.0701	Geography	5	4	4
40.0601	Geology	7	7	4
26.1302	Marine Studies	18	15	15
14.2401	Ocean Engineering	2	2	--
40.0607	Oceanography	10	10	5
	TOTAL	46	41	31

Table 2. Total Number of PhD completions in UD CEOE, 2017-20, 2015-17 and 2013-15, by Research Area

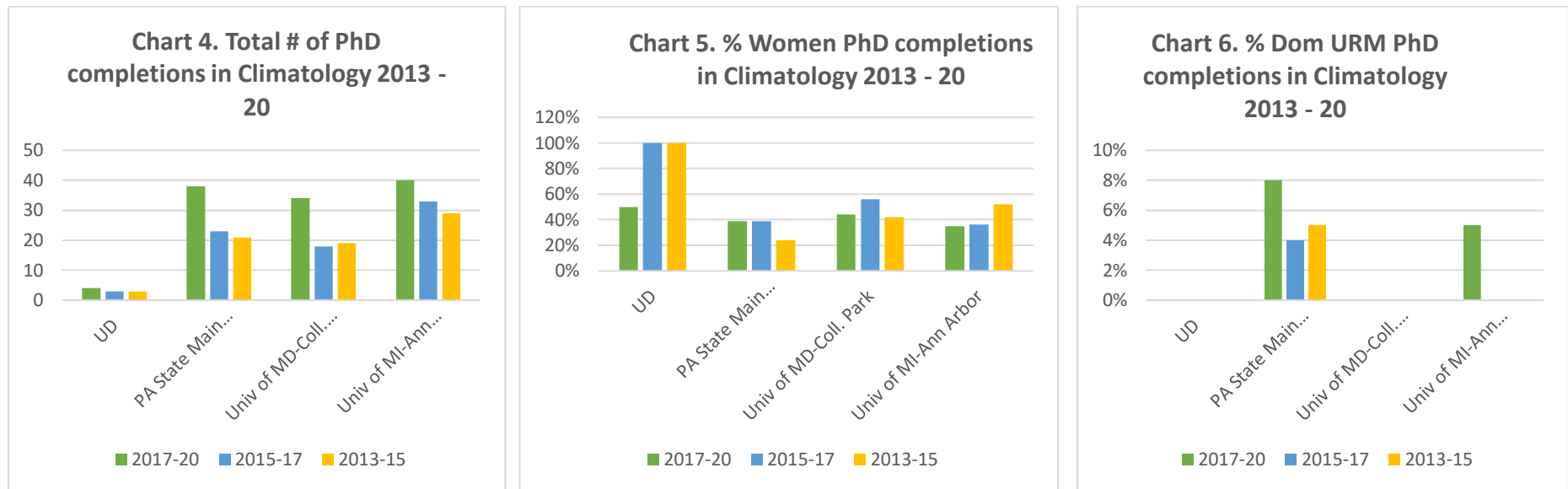
Charts 1 – 3 show total number of PhD graduates, % women and % domestic URMs respectively, in each research area over the three periods 2013-15, 2015-17 and 2017-20. There are very many research areas and periods where there have been no Domestic URM PhD graduates in CEOE.



A closer look at the different research areas and how UD CEOE is performing alongside our comparator institutions with regards to women and domestic URM graduates is given below (see Charts 4 - 15 and Table 3). Research areas where there were < 3 graduates in 2017 – 20 have not been included in this report. Not every comparator institution had PhD completions in the same research area (with the same CIP Code) as UD. The comparison was done for UD and the institutions listed, using the CIP code of the degree. **UD data is shown at the first point on each chart.** [NOTE: Penn State 2017-2020 data includes its 2020 numbers in which all its campuses were aggregated together whereas the Penn State data for the previous periods—2013-15 and 2015-17-- represent data only from its Main campus.]

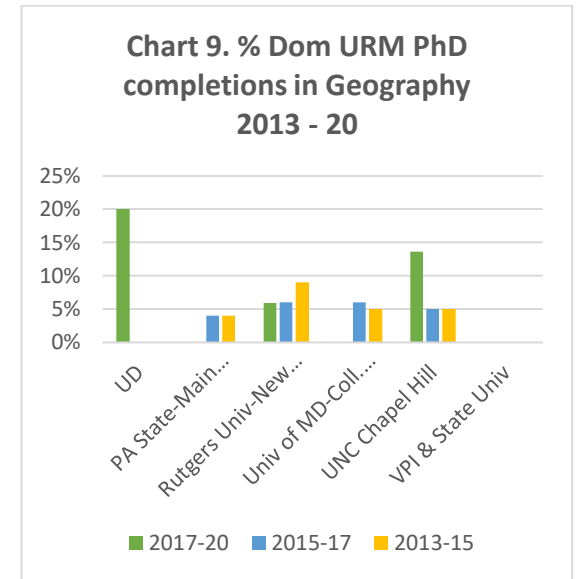
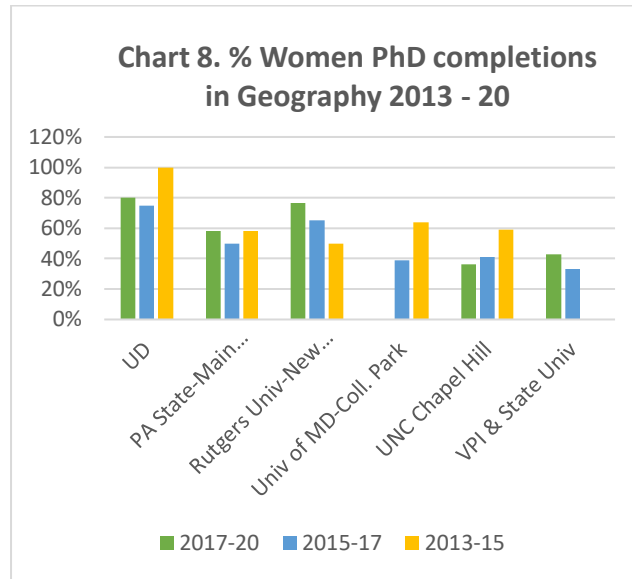
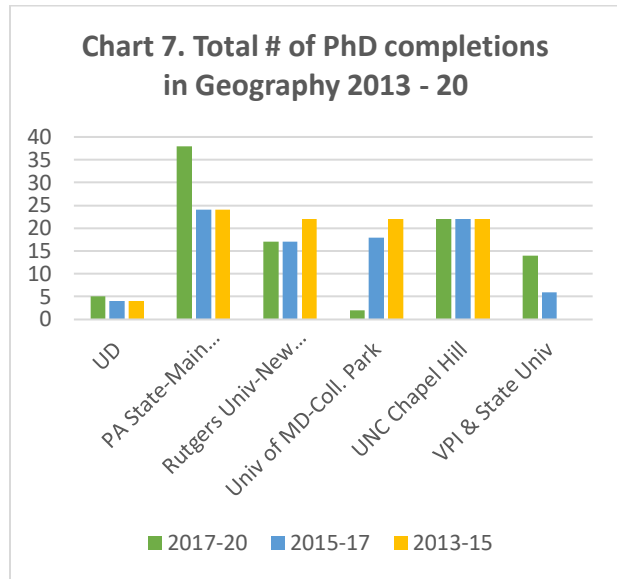
Climatology, CIP Code 40.0401

Three comparator institutions - Univ of Michigan, Penn State and Univ of Maryland, and UD had graduates in the PhD in Climatology over the periods being assessed. Univ of Michigan had most graduates over each period, with % women decreasing from 52 to 35% over time. Of the four institutions, only Penn State had domestic URM among its graduates for each period, with University of Michigan having 5% of its graduates as domestic URM in 2017-20 (Charts 4-6).



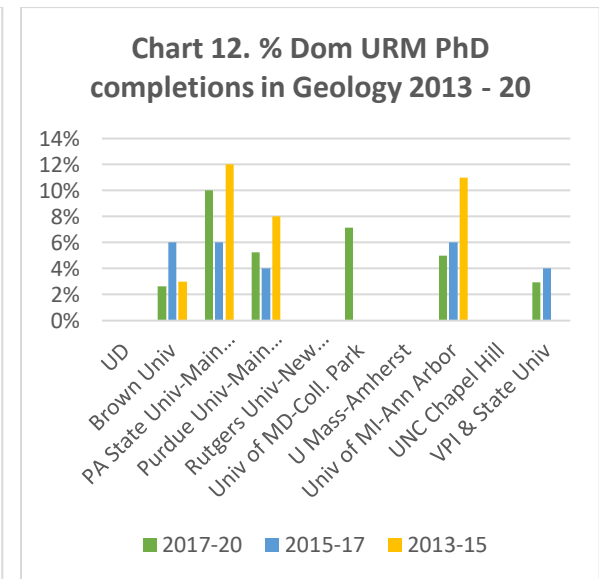
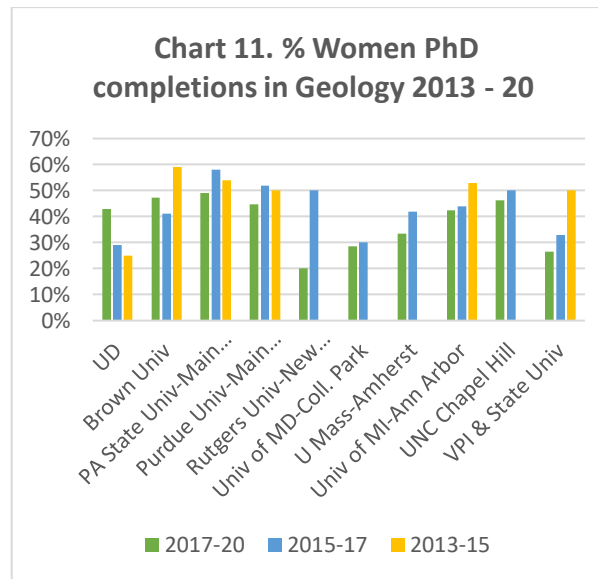
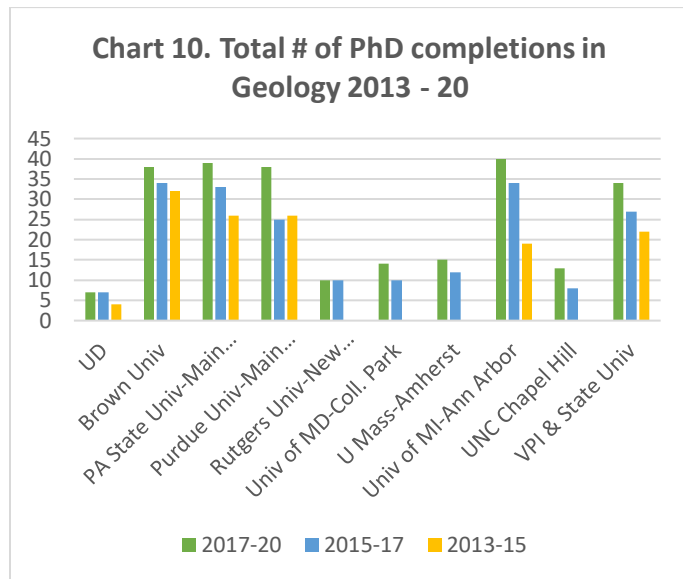
Geography, CIP Code 45.0701

Among the institutions under consideration, Penn State had most PhD completions in all periods, with 50% - 60% women graduates and % domestic URMs falling from 4% to 0% over time (Charts 7-9).



Geology, CIP Code 40.0601

Over the period 2017-20, % women graduating in Geology from six of the institutions under consideration was 43% - 49%, and five of these institutions had 30 or more total graduates. % Domestic URM in that period ranged from 0-10% across all institutions under consideration. Four of the ten institutions, including UD, had no domestic URM graduates in any period (Charts 10-12).



Marine Studies, CIP Code 26.1302

None of our comparator institutions had PhD completions in this area over the periods under consideration. Information for UD graduates in Marine Studies is shown in Table 3.

PhD graduates in Marine Studies - UD	2017 - 20	2015 - 17	2013 - 15
Total # of graduates	18	15	15
% Women graduates	39%	47%	53%
% Dom URM graduates	6%	7%	0%

Table 3. Total # of PhD completions, % women and % Dom. URMs in Marine Studies at UD for 2017-20, 2015-17 and 2013-15.

Oceanography, CIP Code 40.0607

UD, Rutgers and UNC Chapel Hill had PhD graduates in this area for the periods **2015-17 and 2017-20** with UNC having the largest number in each period. % Women ranged from 40% to 64%. UNC had domestic URMs (7-9%) in both periods, UD had none in either period (Charts 13 - 15). In 2013-15, no comparator institutions had graduates in Oceanography. UD had 5 graduates in this area, 60% of these were women and there were no domestic URMs.

Chart 13. Total # of PhD completions in Oceanography 2015 - 20

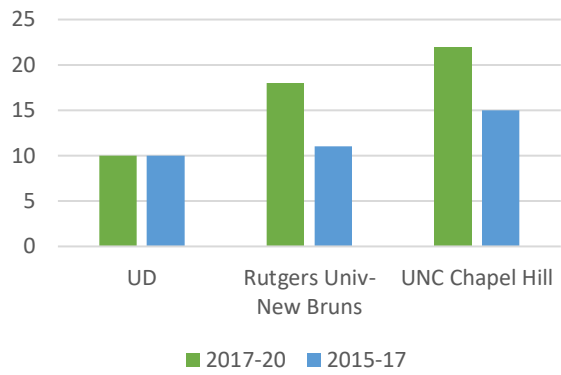


Chart 14. % Women PhD completions in Oceanography 2015 - 20

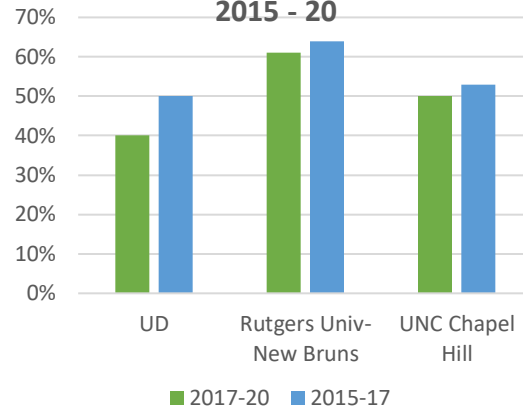


Chart 15. % Dom URM PhD completions in Oceanography 2015 - 20

