



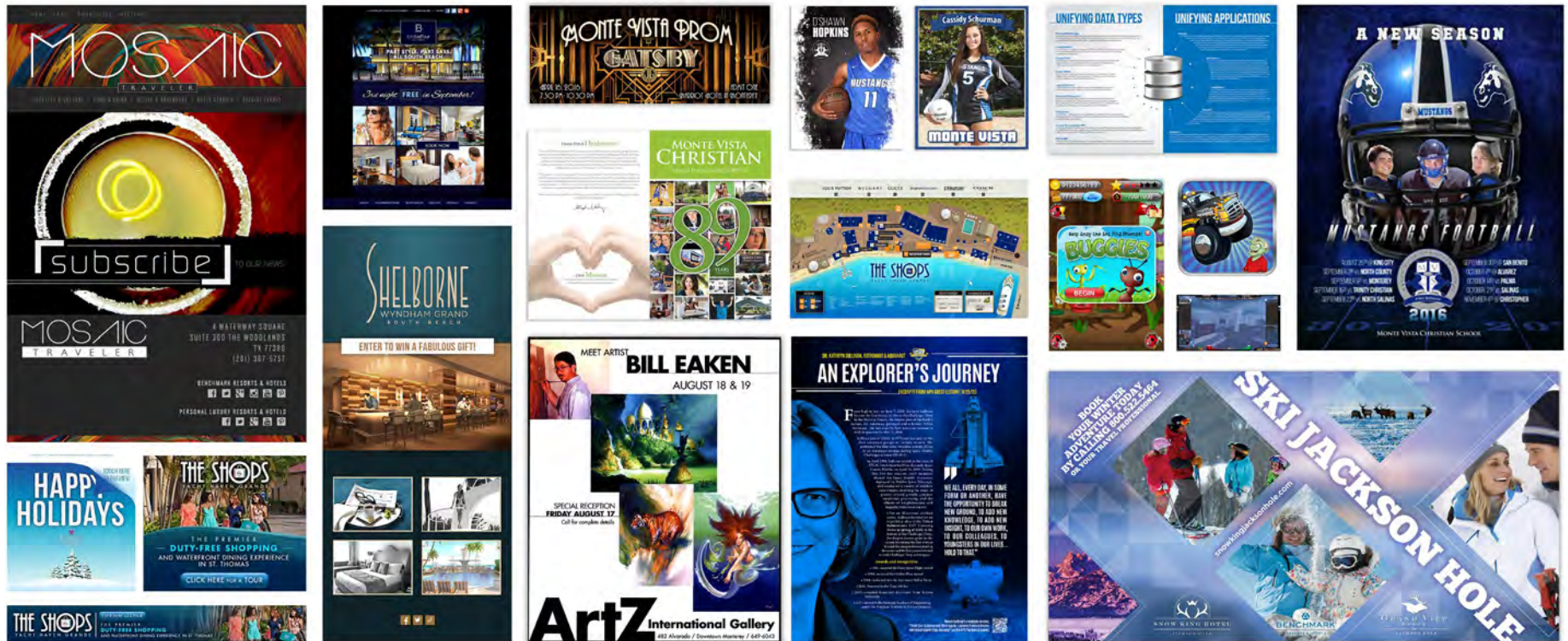


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## AN EXPLORER'S JOURNEY

**From high to low**

**Biology**

**1000 meters**

**2000 meters**

**3000 meters**

**4000 meters**

**5000 meters**

**6000 meters**

**7000 meters**

**8000 meters**

**9000 meters**

**10,000 meters**

**Challenger Deep**

**Buri Khalifa**

**1000 meters**

**2000 meters**

**3000 meters**

**4000 meters**

**5000 meters**

**6000 meters**

**7000 meters**

**8000 meters**

**9000 meters**

**10,000 meters**

**Challenger Deep**

## CLIMATE CHANGE OPERATIONAL IMPACTS

**ELECTROMAGNETIC SYSTEMS:** Climate change impacts the electromagnetic spectrum, which is used for navigation, communication, and weather forecasting. Increased atmospheric water vapor and greenhouse gases can interfere with radio signals, affecting the performance of radar, GPS, and other navigation systems. The example of a satellite in orbit is shown, illustrating how climate change can affect the orbit and the performance of these systems.

**STORMS:** Climate change alters many of the conditions that affect storms. For example, warming of the ocean and atmosphere leads to increased evaporation of water, which can fuel higher hurricanes and more intense storm winds and rainfall. Strong storms and their associated effects on coastal damage, utility system wear, flooding and pollution can have major impacts on a wide range of operations, including nuclear, aviation, ship, roadway, maritime, space, and airborne operations. The storms affected by climate change include hurricanes, typhoons, storms, and tropical cyclones (hurricanes typhoons).

**SURFACE SHIPS:** Climate change affects many aspects of surface ships operations. For example, higher air and water temperatures reduce the efficiency of many ship systems, including engines and propulsion systems. The lack of ice coverage and concentration of sea ice systems affects and increases the need for maintenance and repair. Higher temperatures can also reduce the fuel burn and performance of these systems.

**AIRCRAFT:** Climate change impacts the performance of the aircraft, which is used for navigation, communication, and weather forecasting. Increased atmospheric water vapor and greenhouse gases can interfere with radio signals, affecting the performance of radar, GPS, and other navigation systems. The example of a satellite in orbit is shown, illustrating how climate change can affect the orbit and the performance of these systems.

**WINDS AND WAVES:** Climate change affects the speed, direction, and timing of weather events, which in turn leads to changing winds in ocean surface waves. These atmospheric and oceanic changes impact many aspects of surface ship, aviation, ship, and amphibious operations and the ability of surface ships to defend themselves. For example, higher winds and waves can lead to increased fuel use and an increased need for ship maintenance and repair. The change in winds and waves can also affect coastal sea level rise, leading to impacts on coastal infrastructure.

**SUBMARINES:** Climate change impacts the ocean and can affect the salinity and acidity. These changes affect the propagation of sound waves, which affects the performance of sonar systems. The ability of submarines to operate underwater, and the ability of surface ships to defend themselves.

**NEW CLASSROOMS**

**PERFORMING ARTS**

**ATHLETIC FIELD HOUSE**

**CAMPUS EXPANSION**

**ALL-WEATHER TRACK**



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89 miles to San Francisco  
32 miles to Monterey Bay

School Mascot **MUSTANG**

Founded in **1926**

Population **790**  
679 Day Students  
13 Countries Represented

Student to Teacher ratio **13:1**  
Average Class size **17**

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19 AP Courses

6 Athletic Fields  
2 Gymnasiums

Grammy Nominated  
Performing Arts Program

100 acre campus

Equestrian  
6-Time  
Junior 10 Champions  
7 of 9 years

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**BY THE NUMBERS**

91% 45% 63%

**600+ STUDENTS**

**TEAM OVER THE YEARS**

2007-8

2009-10

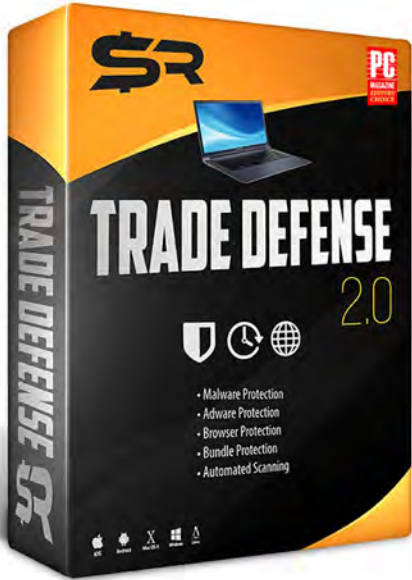
2011-12

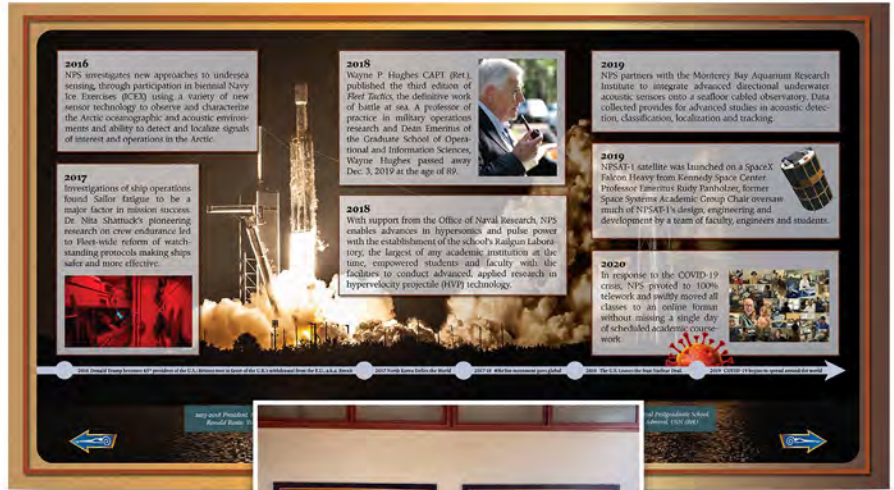
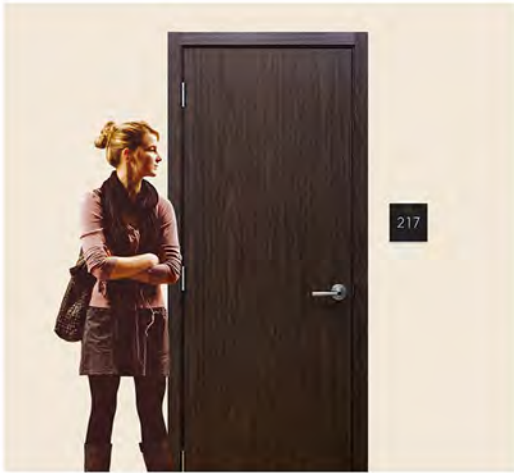
2013-14

2015-16

2017-18







**Research in review - A legacy under the ice**  
By Dr. Aron Heister

For more than 20 years, the Naval Postgraduate School's home grown, Innovative Autonomous Ocean Floor Rover has broken some of the Earth's harshest environments to support student research and scientific discovery.

In September of 2019, NPS Emeritus Research Professor of Oceanography Dr. Tim Stanton will travel to the Arctic as part of the largest expedition in human history to study dramatic changes in sea ice throughout the region. While there, Stanton and his NPS colleague Bill Shaw will deploy four autonomous ocean floor rovers (AOFVs), having more than 400 participants from 17 countries in the Multi-disciplinary drifting ObservatorY for the Study of Arctic Climate (MOSAIC) on "the first year-round expedition into the central Arctic exploring the Arctic climate system."

It's very gratifying that most of our students do go on and use these problem-solving experiences. They go to [work in] the forecasting centers, including the National Ice Center, out in the fleet, and a good percentage of them go on up the ladder and [end up] at senior levels."  
—Emeritus Research Professor of Oceanography Dr. Tim Stanton

While a mission like MOSAIC would be considered once in a lifetime opportunity for any scientist or researcher, the journey is not the first of its kind for Stanton, who has been conducting scientific expeditions and research in the region for over three decades. In fact, the trip will bring his work back to the Arctic ice he dangled a prototype into unmet pack through 22 years prior — a prototype that would evolve over the next two decades, into the current design of the AOFVs that will be deployed as part of MOSAIC.

At its heart, Stanton's AOFVs are the quintessential NPS story — a story of innovation, research and development occurring in answer to real-world necessity. It is a story of the continuous improvement and evolution of specially designed tools, and the experience and knowledge those tools enabled, the student feedback and research they created and contributed to, the data they provided, and the myriad scientific and academic projects they supported. To track the AOFVs through its many incarnations and uses is to see science in the making, and NPS functioning in accordance with its highest purposes and directives.

Read the full story at <https://nps.edu/research-in-review-a-legacy-under-the-ice>

**UPDATE NPS**

Women's Equality Day August 26

August 2019

- p1 Student-led wargaming offers insight into future conflict
- p3 NPS launches campus-wide course in Great Power Competition
- p4 NPS interns to use eyepatches in watch stander awareness study
- p6 Enterprise chairman attributes Navy values to industry innovation

NAVAL POSTGRADUATE SCHOOL  
**IN REVIEW**  
MAGAZINE  
SUMMER 2018

**GAME ON**

From wargaming to virtual reality to serious games, NPS is helping the Navy, DOD utilize concepts of play to advance the mission in more ways than ever.

**GAMIFICATION**  
ARCADE | VIDEO GAMES | SIMULATIONS | REALITY | VIRTUAL | AUGMENTED | MIXED | REALITY

INSIDE:  
NPS Industry Digs Into University Hall of Fame  
University Librarian Leaves a Legacy of Change  
Rowman Scholar's Cyber Research Gets Boost from NPS

**STRATEGIC PLAN**  
2018-2023

**UPDATE**  
NAVAL POSTGRADUATE SCHOOL No. 46 • JULY 2018 • www.NPS.edu

**MEMORIAL DAY CONCERT RETURNS TO HOTEL DEL MONTE**  
By Marinda Lorenz, ASD Military Public Affairs

Hundreds of concert goers gathered for a Memorial Day concert on the grounds of the Hotel Del Monte in Monterey on Monday, May 28.

The Monterey Peninsula Chamber Orchestra, a chamber orchestra, started their week with a Memorial Day concert in Monterey. The Monterey County Page performed a variety of pop and patriotic music during the concert.

The free community event was open to the public, giving over 1,500 visitors the opportunity to enjoy the local "best community" in the Monterey Peninsula. As part of the event, guests were able to enjoy a performance by the Monterey County Page, the Monterey County Page, and the Monterey County Page.

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120 Mission County Residents Share Their Big Ideas During R2X  
R2X Staff Member Interviewed in Monterey Report  
R2X Librarian Leads in List of Change for Faculty Career Library  
R2X Mission County Residents Share Their Big Ideas During R2X  
R2X Staff Member Interviewed in Monterey Report  
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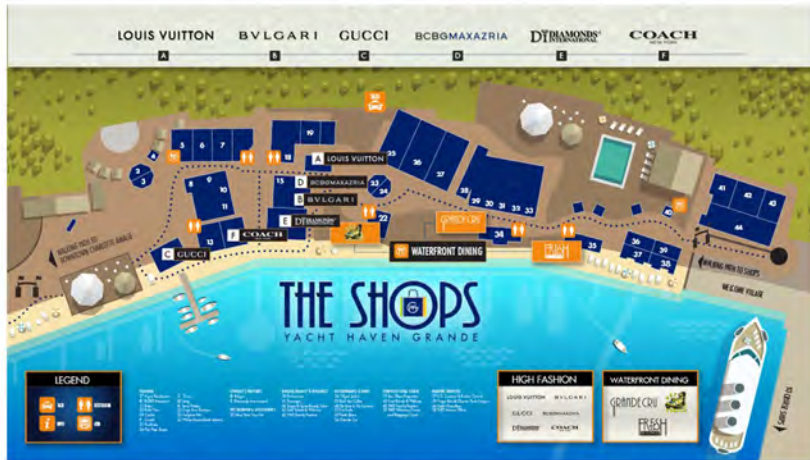
**ANNUAL REPORT AND FACT BOOK // 2018**  
NAVAL POSTGRADUATE SCHOOL

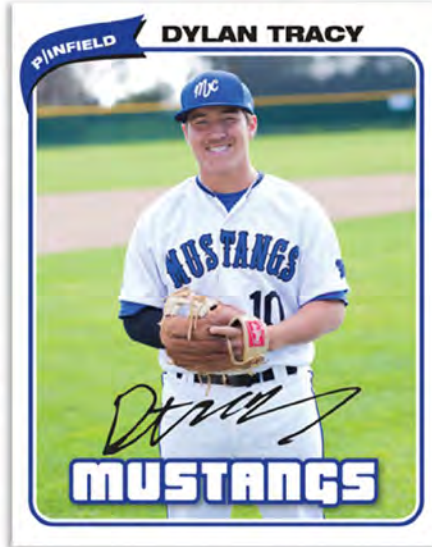
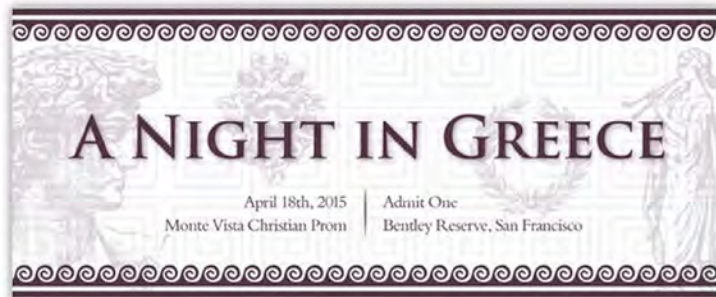
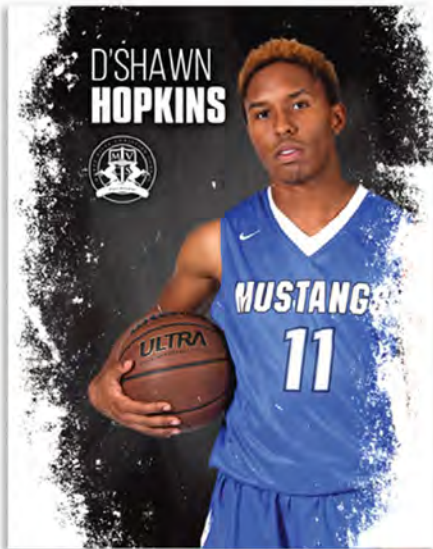
**2020**  
ANNUAL REPORT AND MISSION MEASURES

DECISIVE ADVANTAGE DELIVERED











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Admiral Mike Mullen

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# LESSONS IN LEADERSHIP



Admiral Bill McRaven

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# CRITICAL ALLIES:

THE U.S. / REPUBLIC OF KOREA ALLIANCE




Ambassador Harry Harris

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# A NEW MEASURE:

QUANTUM REFORM OF THE METRIC SYSTEM



Dr. William D. Phillips

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# 5G

A GRAND ECONOMIC COMPETITION



VADM Jon Tigue | General Keith Alexander

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# AN EXPLORER'S JOURNEY



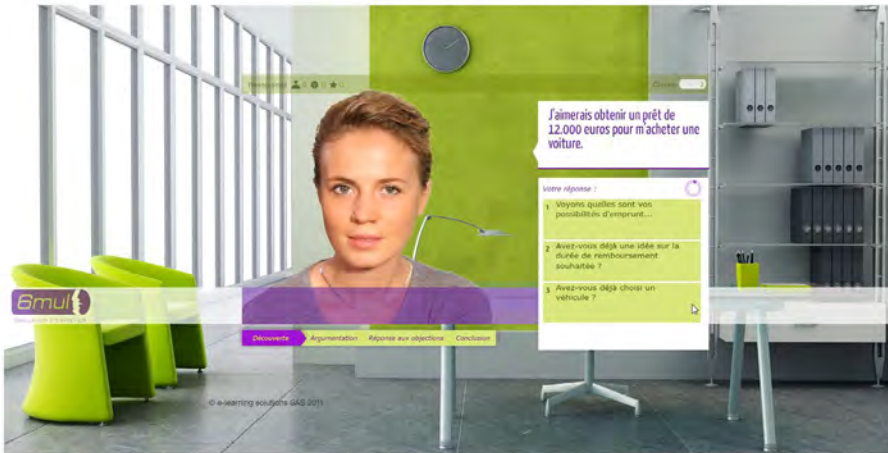
Dr. Kathryn Sullivan

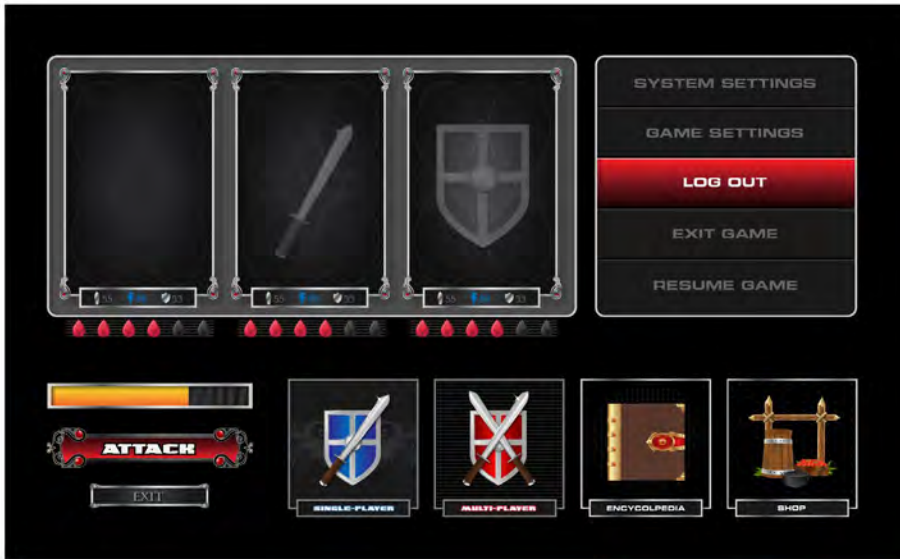
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# MISSILE DEFENSE AND TECHNOLOGY WARRIORS



VADM Jon Hill

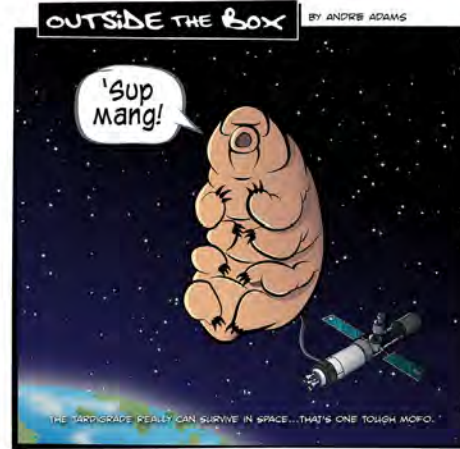
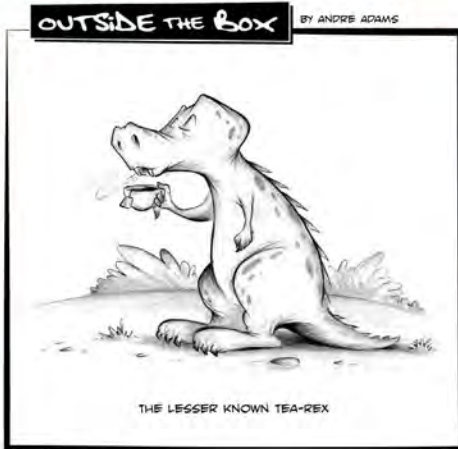
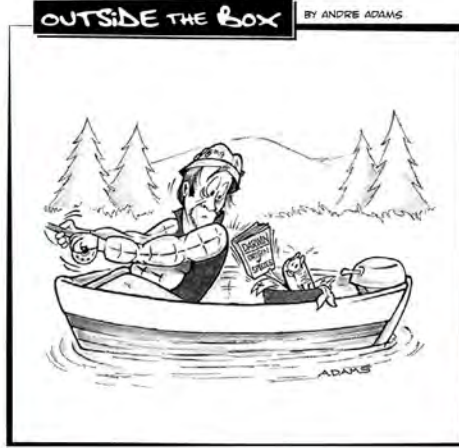










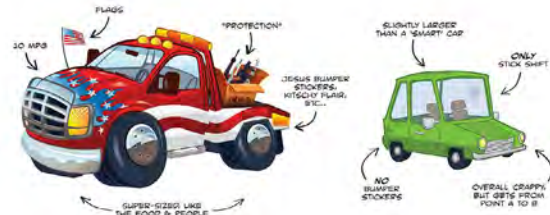




# FREEDOM FRIES

Musings on French and American culture

## Differences between typical American and French cars



## Working Hard...or Hardly Working?

VACATION TIMES VARY GREATLY IN THE STATES AND IN FRANCE.



MOST AMERICANS DO NOT USE UP ALL THEIR VACATION TIME (ALL 2 WEEKS OF IT).

## Size differences—drink portions



**SMALL**

(OR IN CERTAIN ESTABLISHMENTS: \*BELL\*)

GREAT IF YOU'RE STILL PLAYING WITH DOLLS

## Complainers

FRANCE IS RENOWN FOR BEING A NATION OF COMPLAINERS, OR "GRÄLERS." AMERICANS, ON THE OTHER HAND, ARE GENERALLY HAPPY-SO-LUCKY.



**\*TRUE STORY.**

## Size differences—clothing



LOOSE FIT IN THE STATES

LARGE JEANS IN FRANCE

## World Champions



**\*ONLY AMERICAN TEAMS**

## Say Brie

AMERICANS AND FRENCH CARE FOR THEIR TEETH VERY DIFFERENTLY.



IMPOSSIBLY STRAIGHT, GLOW-IN-THE-DARK TEETH

L'EW.

## Pooper scoopers? N'est pas?

SOMEHOW, THE FRENCH ARE PERFECTLY FINE WITH THEIR STREETS BEING CRAPPED ON BY THEIR DOGS....



BUT SHIT IS SHIT AFTER ALL, WHAT IF IT WERE HUMAN PEESES?

## Funny Money

AMERICANS LOVE TO SHOW OFF THEIR WEALTH, EVEN IF THEY'RE BURIED IN DEBT. WHEREAS THE FRENCH HIDE THEIR MONEY, QUITE WELL.



DOESN'T ACTUALLY OWN ANYTHING... ITEMS CHARGED TO HIS 17 CREDIT CARDS.

ALWAYS "POOR"

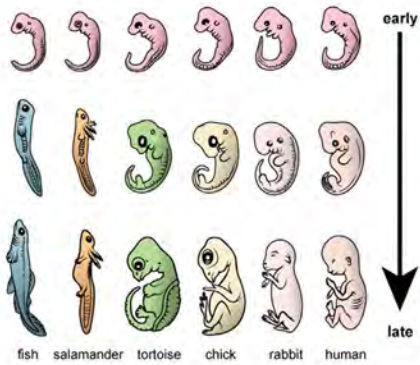


Figure 3. Global Air Circulation Patterns

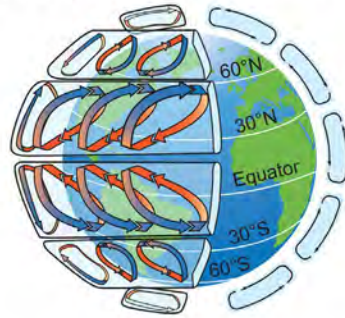


Figure 3. The Rock Cycle

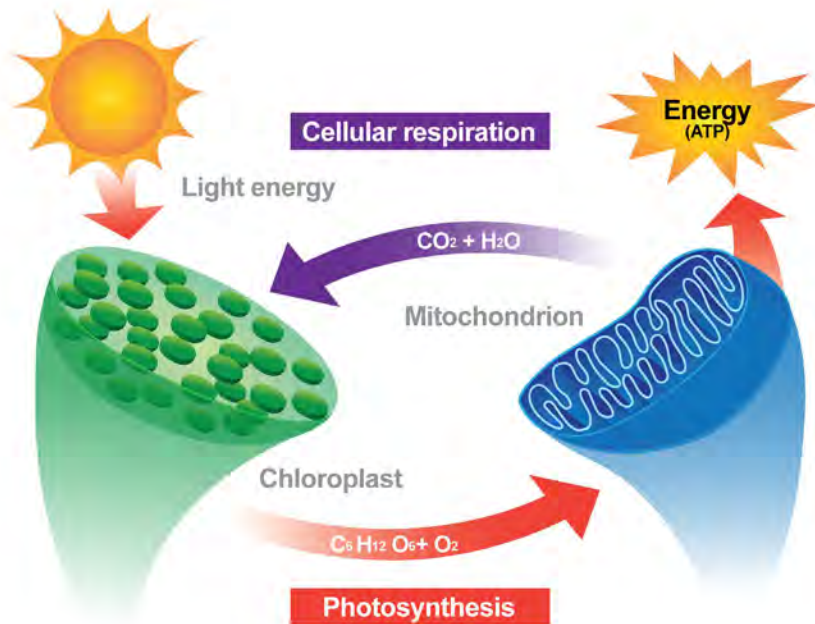
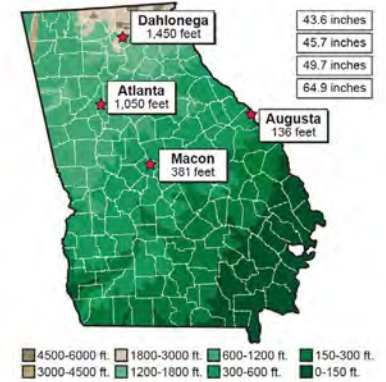
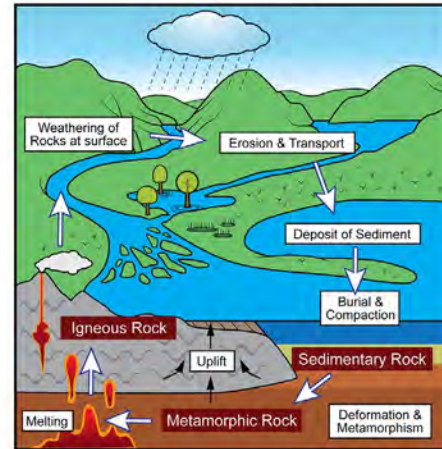
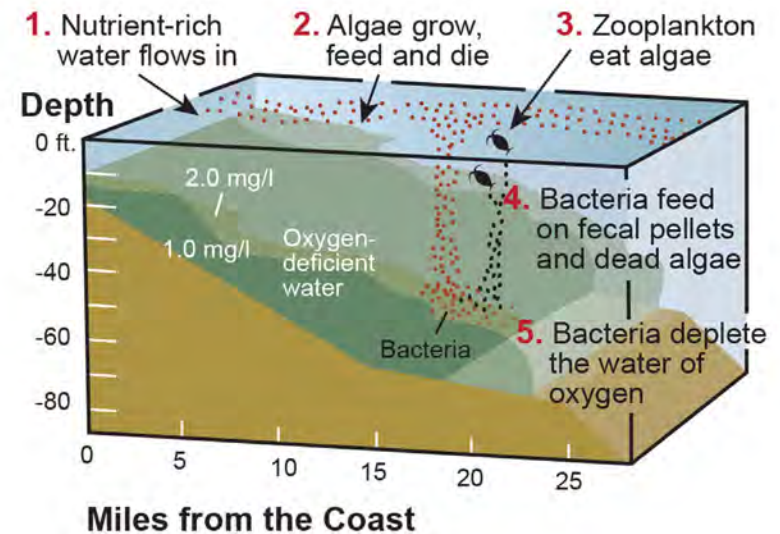


Figure 2. Formation of Dead Zone







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