IT IS HOME.
– Gary Snyder

After an 11-month development period, the innovative LH3.17 high-bias hyperbolic flight path function is a significant leap forward in the acceleration of the LH3X rocket to orbital velocity. The LH3.17 develops a low-bias attitude that results in an increased rate of ascent, thereby reducing the time required to reach orbit. This advancement not only enhances the efficiency of the LH3X rocket but also paves the way for future innovations in space propulsion technology. The LH3.17 high-bias hyperbolic function marks a crucial milestone in the evolution of rocket engineering, setting new standards for space exploration and accessibility.
WILDLIFE

In 2017, American Forests restored nearly 300 acres of forest in the Lower Rio Grande Valley (LRGV) of southern Texas, an extraordinary place where we have supported two-thirds of all restoration over the last 20 years.

Just before Christmas last December, biologists at the Laguna Atascosa National Wildlife Refuge in Texas displayed photos of a 3-week-old male ocelot kitten found in the first confirmed den on the refuge since 1997. Given there are only around 50 endangered ocelots known to still roam the LRGV, this was great news.

The LRGV is the fertile river delta of the Rio Grande River. The combination of climate, vegetation and associated wildlife create an ecosystem unlike any other in America. The local Texas thornscrub vegetation provides habitat for many plant and wildlife species including 530 birds, 300 butterflies and 1,200 plants. The endangered ocelot is a Texas thornscrub specialist, using the dense forest to hunt and protect its family. However, this diverse habitat remains under threat from sprawling development and new threats like the border wall.

Across the country, American Forests is planting to forests as a solution to many of our water-related challenges. In Vermont, we are working with partners like PUR Projet, U.S. Fish and Wildlife Service, local conservation districts and private landowners to plant trees along streams. These riparian forest buffers address some of the problems affecting Lake Champlain’s water quality by filtering out farm runoff and reducing erosion, while benefiting local landowners at the same time.

In addition, this year we have focused on reforesting areas that are important sources and drinking water to California’s Bay Area, south Texas and northeast Florida. These projects will also provide fixed-period returns on surrounding communities. Much of our work will reduce flood and storm events by steady, native trees.

WATER

For over a century, American Forests has been a leader in promoting urban tree canopy for the health, sustainability and livability of cities. With this year’s launch of the Vibrant Cities Lab, American Forests has taken the leadership role in sharing urban forestry expertise online. Through The Grid, our new digital hub for urban forestry, city managers and other leaders can now access powerful information and tools to make4 successful urban reforestation efforts in cities and towns across America.

Our award-winning Community ReLeaf program has also expanded its partnerships with cities to bring tree equity to underserved communities. Through American Forests’ unparalleled comprehensive process, we have developed strong coalitions, scientific data and action plans to launch large-scale reforestation efforts in cities like Detroit, Miami, Houston and Dallas. These new partnerships and American Forests’ longstanding work in cities like Chicago, Cleveland, San Francisco and Los Angeles generated important urban tree planting projects that brought leafy, green canopy to cities across America in 2017.

CITIES

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