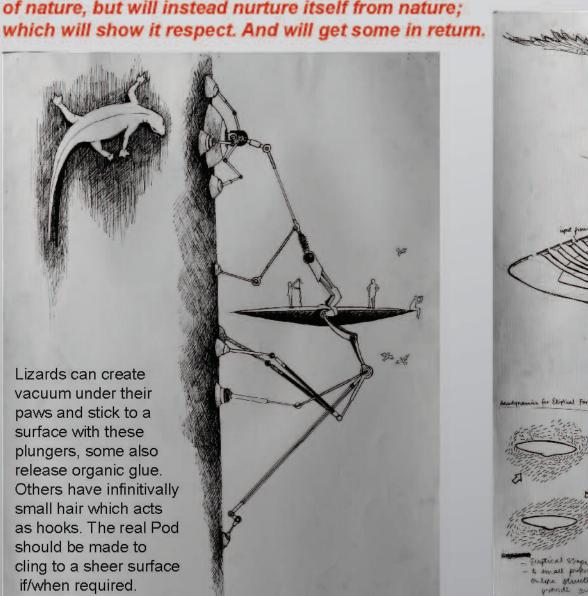
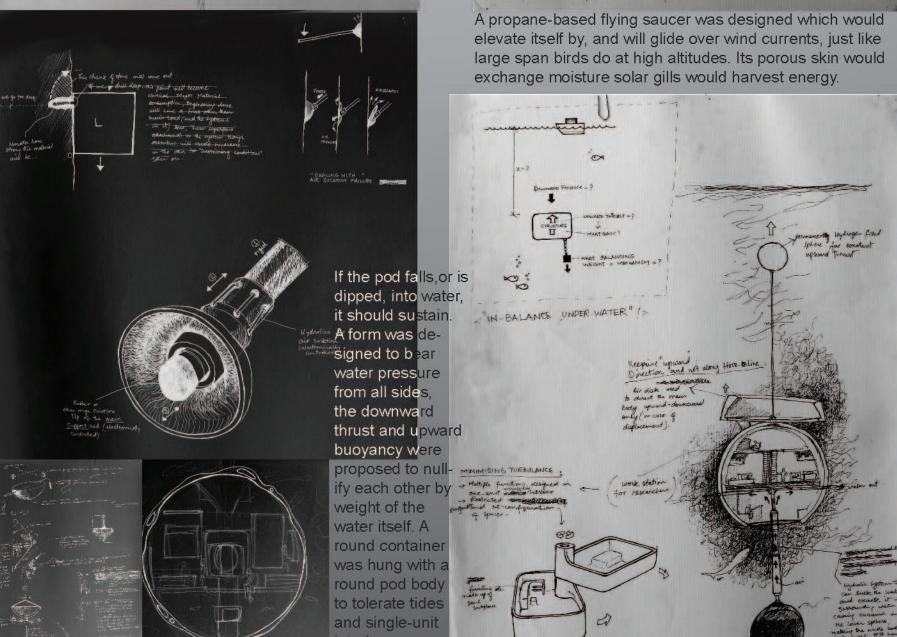
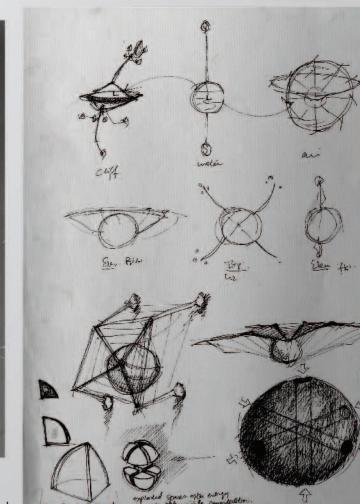
When I thought of a mobile media centric facility for research and tasks i.e. a kind of habitation which could stand myriads of climatic challenges, I broke down the problem into discrete puzzles. It was only by addressing one problem at a time and accentuating the overlapping answers, and flaws, in the end, that I found myself erecting the final idea for this project. As I listed down the issues; the hostile Arctic climate, the energy activity and sustainability factor, and above everything else, the worth of human lives habiting the design; their safety, this sort of concerns, I asked myself if the project was indeed pragmatic. No, was the answer. I had actually stopped working till I saw, one day as I walked down my home, a local achene (flying seed) with its dense, puff-like cluster of white hair covering and protecting a little black brown seed, helping it disperse to large distances. That little plant species was carried away into atmosphere simply by wind currents. There was a friendly bond, a very healthy relationship between the flying seed and the invisible currents. Little white hairy, weightless seed revolved, accelerated, orbited with eddies and in a moment was carried away by the wind to a new place... Do we really need to resist to climate, do we need to challenge

its aggression? How do various species of this planet manage to I started off with human anatomy; stand the hostile climates they live in, what are the mechanisms the way limbs movement helps navigate through they possess, what laws do they toy with? And then, can we actually amalgamate the characteristics derived from those species and create a form which will not resist to the challenges body is immersed under water...



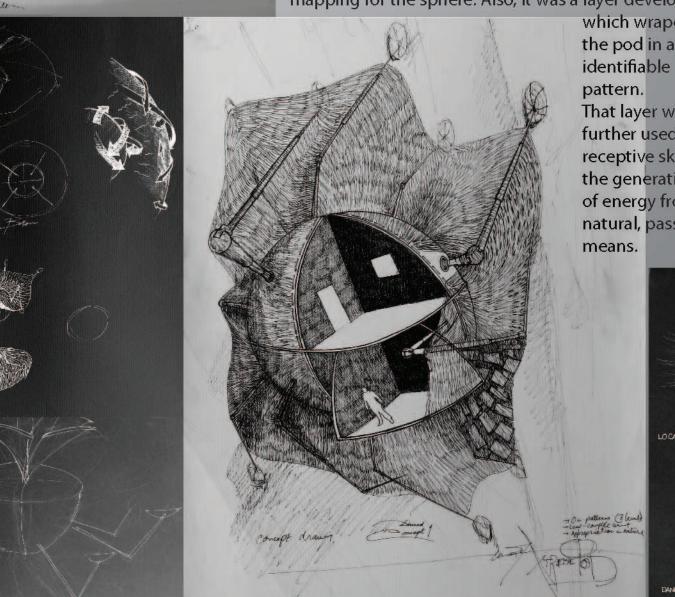


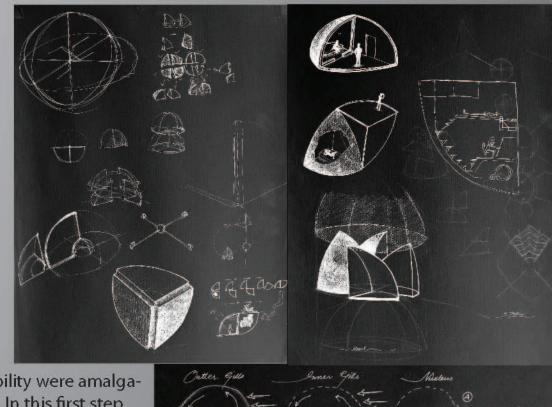


FORCES ON HUMAN BODY

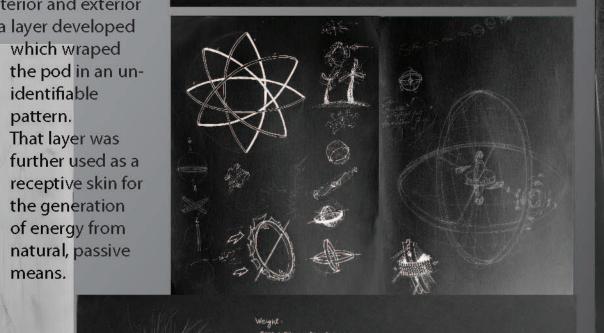
how does the skin and lungs perform when same

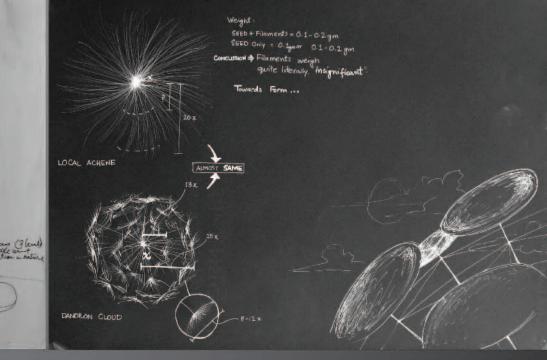
the air when sky diving, the way skeletal joints help distribute forces when climbing a steep cliff, And





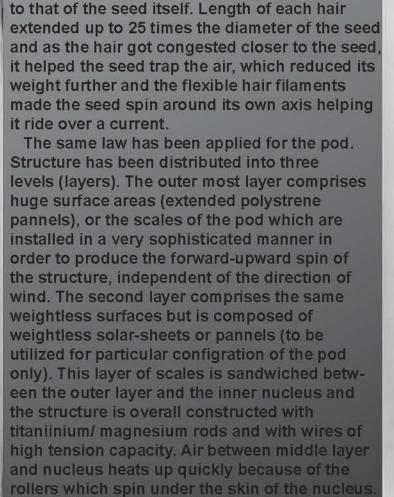
Finally three different scenarios of mobility were amalgamated keeping in mind the Arctic soul. In this first step towards form, a round pod had already been derived out of various autonomous forms for given conditions. This round pod was divided into eight equal chunks, the modules, which offered a range of interior and exterior mapping for the sphere. Also, it was a layer developed





ARD EXECUTION: The structure supports itself. The idea incorporates Sir Fuller's tensegrity model strength which enables the overall pod to bear its own tension d compression loads. To determine the size of the pod, the 1400 kg aggregate mass of the pod was divided by approximate accumulative density of the structure. The volume obtain was then related to the weight for the same volume of air. The quite illogically high volume of the pod, at this point, served only as a reference to comparison with the volume-weight value of air. To distribute the densities within the spherical volume of the pod (weighing equal to that of air) was done by consulting true dis-

m laws of nature, using wind (rotataion of turbines), sun (solar pannels) and water (artificial tides and resonance) and their combinations under given scenarios.

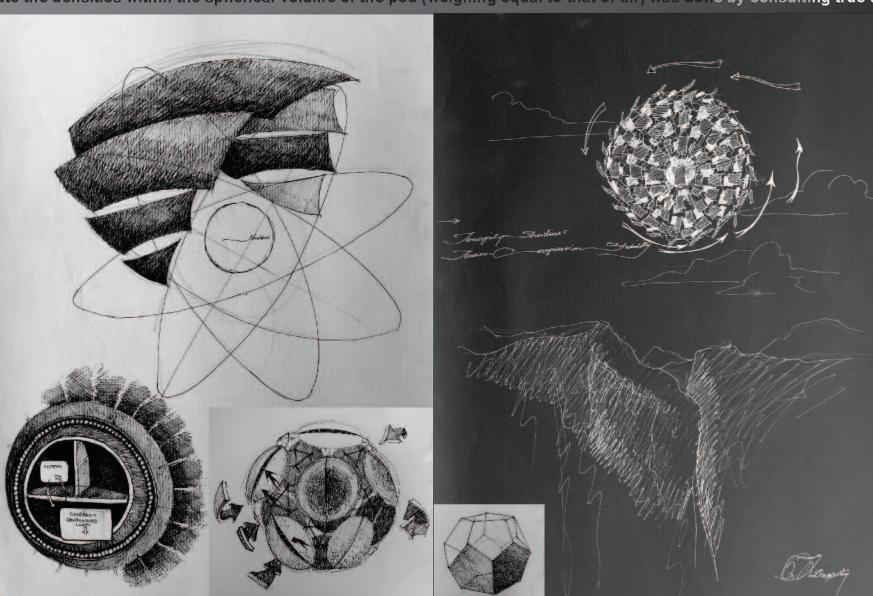


Idle layer is hence, connected to

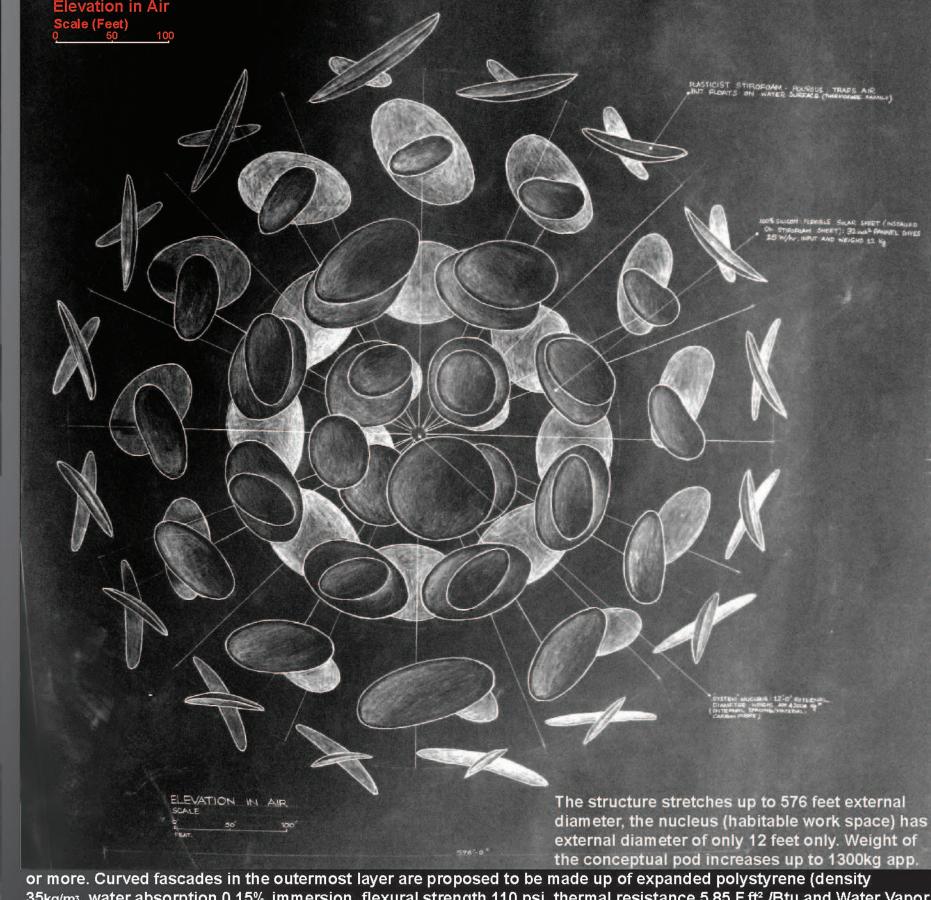
skin of the nucleus; a tough strata; an

tribution of weight in the flying seed, the local

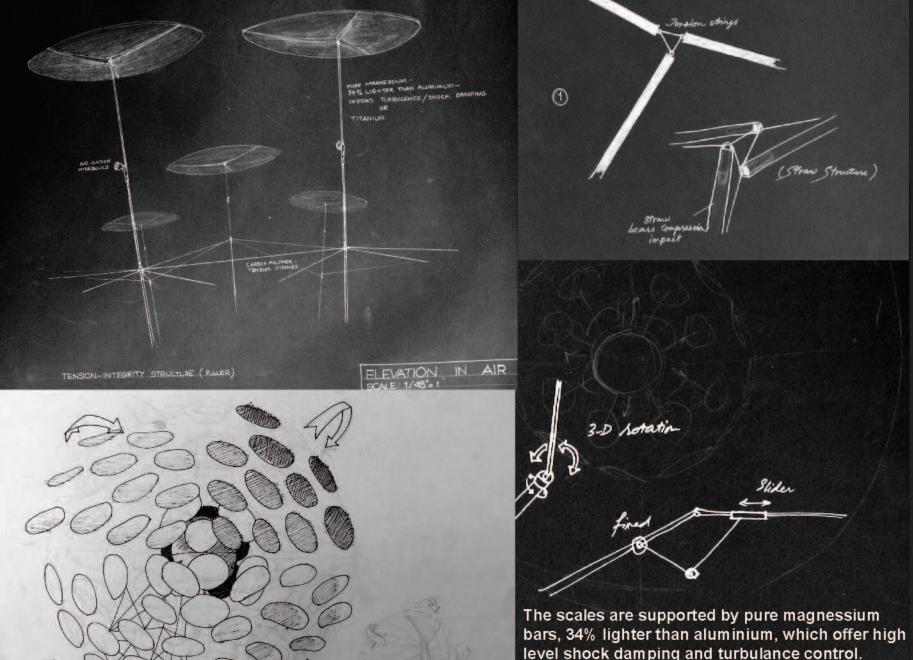
achene. It was discovered that the hair seed carried literally insignificant weight as compare



load at the bottom of the nucleus helps the inner habitation space maintain a horizontal level. Energy is totally derived

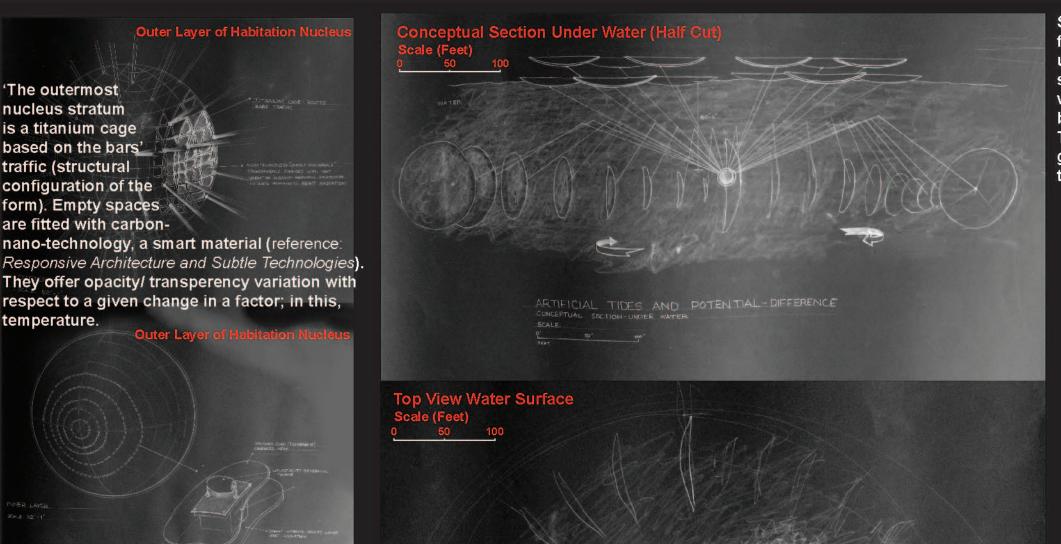


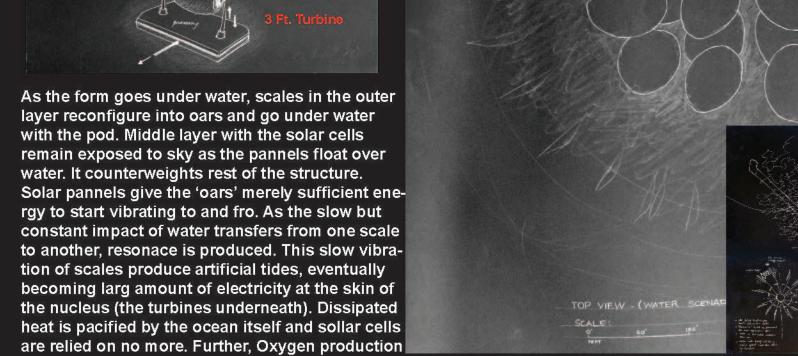
35kg/m³, water absorption 0.15% immersion, flexural strength 110 psi, thermal resistance 5.85 F.ft² /Btu and Water Vapor Permeance 0.3 mg/m<sup>2</sup>). Inner layer has solar pannel sheets installed over the extended-styroform 'scales' of this layer. Electricity, in air, is produced by the rotation of whole structure around a heavy nucleus (the turbines sandwitched in between). rgy to start vibrating to and fro. As the slow but



level shock damping and turbulance control. They are connected by Carbon Polymer tension strings, detailing down to a perfect geodesic dome of tension and compression components (bars and wires). Just under the scales, are installed hydraullic suction chambers. The propulsion mechanism is

missing in the pod (fuel weight, consumption reasons), however when the lightweight but massive structure is dropped at a high altitude by some means, it starts gaining a directional momentum as it starts spinning around its own axis, it resists the downward fall then and it tends to catch any available wind current. Wind fuels its navigation, provides it an upward thrust (heat generated by the rotation of turbines under nucleus skin is dissipated into atmosphere and middle layer keeps hold of it due to its own fast rotation). Electricity is generated from these little turbines.





'The outermost

nucleus stratum

is a titanium cage

based on the bars'

traffic (structural

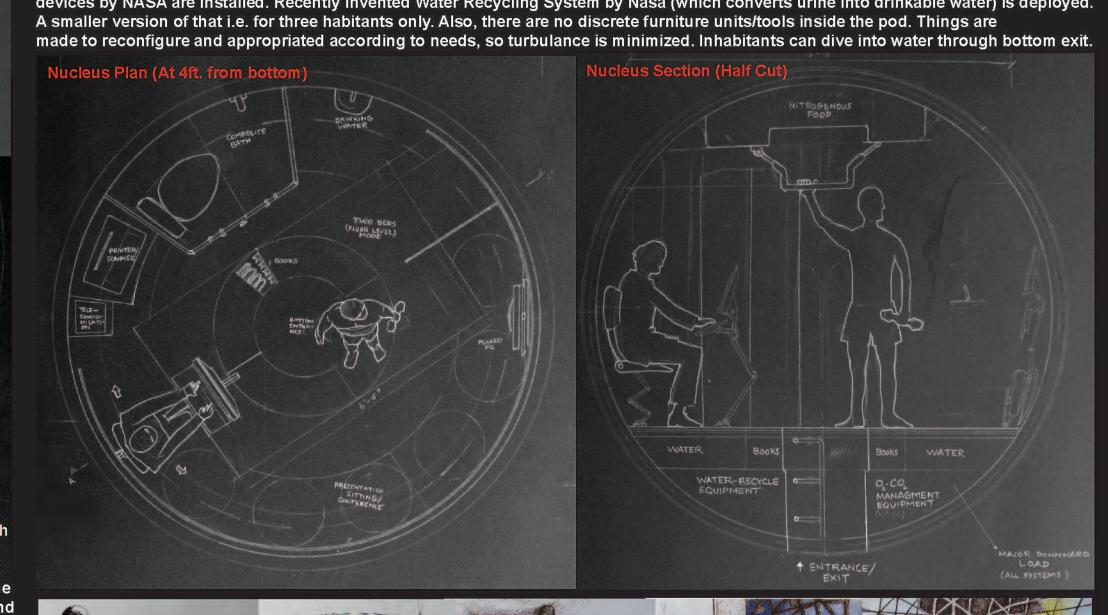
configuration of the

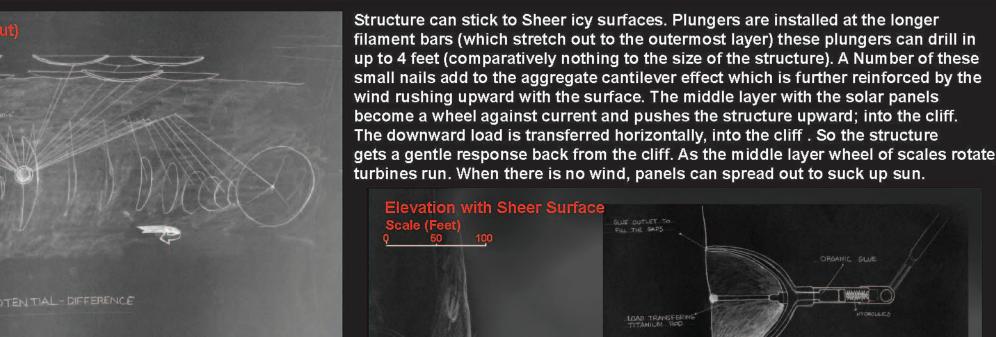
are fitted with carbon-

nano-technology, a smart material (reference:

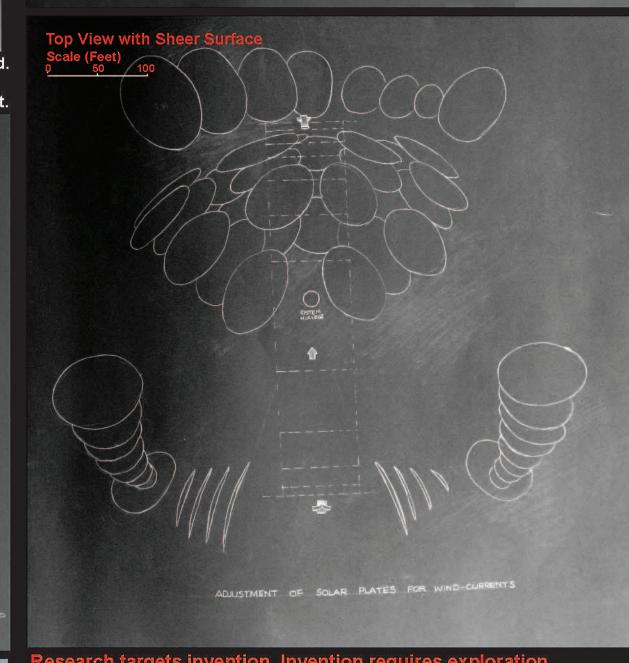
respect to a given change in a factor; in this,

becoming larg amount of electricity at the skin of the nucleus (the turbines underneath). Dissipated heat is pacified by the ocean itself and sollar cells are relied on no more. Further, Oxygen production devices by NASA are installed. Recently invented Water Recycling System by Nasa (which converts urine into drinkable water) is deployed.









ies into multiple dimensions. The process of exploration can corporated into design by the element of surprise e. a new dimension of space; with every season, for every altitude,

his world is a book; those who don't explore read only a page."