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China’s Geography: A Boon or Bane?

The Factor of Geography

Well before China arose, its inherent geographical potential had been studied and commented upon by many. However, the true potential of Chinese geography was recognised by the English geographer Sir HJ Mackinder in his famous 1904 article, ‘The Geographical Pivot of History’ in which he posited that the Chinese, should they expand their power well beyond their borders, “might constitute the yellow peril to the world’s freedom just because they would add an oceanic frontage to the resources of the great continent, an advantage as yet denied to the Russian tenant of the pivot region”. Mackinder’s assertion was based on the indisputable premise that, whereas Russia, basically was and still is a land power with an oceanic front blocked by ice, China owing to its large temperate coastline was both a land power and sea power. Subsequently, Mackinder in his widely read and acclaimed piece ‘Democratic Ideals and Reality’ had predicted that, along with the United States and the United Kingdom, China would eventually guide the world by ‘building for a quarter of humanity a new civilization, neither quite Eastern nor quite western’. A century on, some feel that Mackinder’s prophetic pronouncements are turning into a reality and China’s geography is its greatest boon.

However, there are others who feel that China’s geography has resulted in China suffering from external aggression. These commentaries find their basis on account of China suffering a ‘Century of Humiliation’ which came across the oceans as well as the fact that, earlier, the Mongols invaded China over the land frontiers.

By the turn of this Century though, China’s rise was clearly evident to all and subsequently, over the next decade and a half seen to be assuming aggressive contours. As a consequence, the jury was out again contesting whether, China’s geography in any way contributed to its rise or present behaviour. Connected to this, one can’t help but recall what Napoleon had famously said, “The policies of such states are inherent in their geography”. It would be thus worth its while to study and analyse the ways in which China’s geography could shape its future policies.

China’s Interaction with the World

Contemporary analysts have viewed China as “Island”. Such an assertion is not made on account of it being surrounded by water (which borders only its eastern flank) but on account of it being bordered on the other three sides by terrain that is difficult to

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traverse in virtually every direction starting from North Korea in the North-East to Vietnam in the South-East. To develop a better understanding of China's predicament, let us first develop an understanding of China's external periphery and topography. A study of China's external periphery can be undertaken along the four cardinal directions as follows:

China's External Periphery

(a) **North.** In the North, China has a long Northern border with Mongolia and then Russia running right up to the Pacific. This region is sparsely populated and difficult to traverse. Moreover, this vast area is underdeveloped and devoid of any major communication links. The only exception being the Russia region bordering the Pacific, namely, the area from Russia’s Vladivostok to Blagoveshchensk. This region has reasonable transport, population and communication links to both sides.

(b) **East.** To the East is the Pacific coast, which has numerous harbours and has historically had substantial coastal trade. China is bordered by seas and waters eastward (Yellow Sea, East China Sea and South China Sea) and has a 9000
China’s Geography: A Boon or Bane?

China has a mile temperate coastline. Prior to the 19th century, China had not suffered any naval threat and hence had little interest on building a navy. However, over the last two centuries, major incursions into China have been through this very coast viz by the Japanese and the British. Historically, despite having a long coastline, China has never been a maritime power. But, with the increasing integration of Chinese economy with that of the World, China has laid greater emphasis on the development of its coastal regions. Apart from this it has also been slowly but steadily building up its capability to exert influence beyond its coastal regions. The same is evident from its desire to project power beyond and control the first and second islands chains. The First Island Chain being the line through the Kurile Islands, Japan, the Ryukyu Islands, Taiwan, the Philippines, and Indonesia (Borneo to Natuna Besar), while the second island chain runs along a north-south line from the Kuriles through Japan, the Bonins, the Marianas, the Carolines and Indonesia.

First and Second Island Chains

China’s desire to control the first and second island chains stems on account of it being boxed in by these island chains. Attempts at breaking this stranglehold
would involve China attempting to wrest control of the “Asiatic Mediterranean”. The famous Yale University professor Nicholas Spykman described the Asiatic Mediterranean as “an insular world par excellence” which is composed of marginal seas such as the Sea of Japan, the East China Sea, and the South China Sea. China’s attempts at wresting control of the Asiatic Mediterranean would manifest itself in the following ways:

(i) **Reunification of Taiwan.** Besides the call of history, “national reunification” of Taiwan makes greater sense on account of its geography. A look at the above figure will show why Taiwan was called an "unsinkable aircraft carrier" midway up China’s seaboard by U.S. General Douglas MacArthur. Access to it without doubt allows China to break free from the first island chain.

(ii) **Domination of the East China Sea.** China’s dispute with Japan over the Diaoyu Island and declaration of an AirDefence Identification Zone (ADIZ) over portion of the East China Sea are attempts at dominating the East China Sea.

(iii) **Claim and Control over the South China Sea.** China’s claim to most of the South China Sea on account of its hugely contentious nine dash line

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5Source: Wall Street Journal
is shown in the figure below is well known. If China were to be able to control the South China Sea, besides negating the first island chain it would also be able to dominate what most analysts refer to as the "second Persian Gulf". This desire stems from what Nicholas Spykman calls the "circumferential and transmarine expansion" which leads states to gain control of adjacent seas. This as per him can be seen in Greece seeking control over the Aegean, Rome over the Mediterranean, the United States over the Caribbean - and now China over the South China Sea.⁶

(c) **South.** In the South, the border with Vietnam is the only border readily traversable by large armies or capable of being utilised for mass commerce. The rest of the southern border where Yunnan province meets Laos and Myanmar is hilly jungle, difficult to traverse, with almost no major roads. Significant movement across this border is almost impossible. *Hkakabo Razi,* almost 19,000 feet high, marks the border between China Myanmar and India. At this point, China's southwestern frontier, anchored in the Himalayas, begins. More precisely, it is where Tibet borders India and the two Himalayan states, Nepal and Bhutan. This border runs in a long arc past Pakistan, Tajikistan and Kirgizistan, ending at *Pik Pohedy,* a 25,000 feet mountain marking the border with China, Kyrgyzstan and Kazakhstan. It is possible to pass through this border region with difficulty; historically, parts of it have been accessible as a merchant route. On the whole however, the Himalayas are a formidable barrier to substantial trade and mass movements from North to South and vice versa.

(d) **West.** The one open passable corridor along the western border of China is with Kazakhstan. This area is passable but has relatively little communication routes as of now. This corridor is being developed as a main route between China and the rest of Eurasia. The only problem is distance. The border with Kazakhstan is almost thousand miles from the first tier of Han Chinese provinces, and the route passes through sparsely populated Muslim territory of Xinjiang, a region that has posed significant challenges to China. Historically, the Silk Road from China ran through Xinjiang and Kazakhstan on its way west integrating the trading communities of Europe and Far East⁷.

What though is most pertinent to note is that, barring India and Bhutan, China has settled its territorial borders with all its other neighbours, sometimes even at a disadvantage to itself. This gives China the ability to concentrate on its maritime domain. At the same time though, if one ignores China’s maritime borders, China’s interaction with the world is limited to a few areas only. As a result, despite containing a fifth of the world’s population, China can either wall itself off from the rest of the world(as it did prior to its economic boom) or conversely is forced to reach out to the

world across these limited access areas (as it is attempting now). However, this notwithstanding, China’s geographical position gives it a distinct advantage. Sitting atop the age old trade route, it enjoys a unique position of connecting energy rich CAR to the Pacific Ocean. Geography provides China the unique opportunity of becoming both a continental and maritime power.

**China’s Physical Topography**

China stretches some 5,026 kilometres (3,123 miles) across the East Asian landmass. Its landscape is diverse with snow-capped mountains and deep river valleys, broad basins and high plateaus, rolling plains interspersed with terraced hills, sandy dunes and low-latitude glaciers and other landforms present in myriad variations.

**Topography of China**

In general, the land is high in the west and descends to the east coast. Mountains (33%) plateaus (26%) and hills (10%) accounts for nearly 70% of the country’s land surface. Most of the country’s arable and population are based in lowland plains (12%) and basins (19%) though some of the greatest basins are filled with deserts. The
country’s rugged terrain presents problems for the construction of overland transportation infrastructure and requires extensive terracing to sustain agriculture but is conducive to the development of forestry, mineral and hydropower resources and tourism.

Traditionally, the Chinese population centered on the Chinese central plain and oriented itself toward its own enormous inland market, developing as an imperial power whose center laid in the middle and lower reaches of the yellow River on the northern plains. More recently, the long coastline have been used extensively for export-oriented trade, making a power shift, with the coastline provinces becoming the leading economic center.

**Major Physical Macro Regions.** The physical topography of China can be divided into three physical macro-regions namely, South-western (SW) region (Tibetan highlands), North-western (NW) region (Xinjiang – Inner Mongolia) and Eastern China (Subdivided into the North-Eastern plain, North plain, and Southern plain).

China’s Topographical Regions

**SW Region.** Located in TAR & Qinghai region, it has an average height between 13000 to 16000 feet and popularly known as the ‘roof of the world’. Consists mainly of cold lofty areas with plateaus and inland lakes. This vast inhospitable and thinly populated area can further be divided into two main regions:-

(a) **Yunnan – Guizhou Plateau.** Consists of mountains ranging from 10000-13000 feet, and lies in the Northern part of Yunnan and western part of Guizhou provinces. This area is characterized by deep valleys of limestone and underground rivers.

(b) **Tibetan Plateau.** Occupies Quarter of Chinese mainland with the heights varying from 13000 to 16000 feet. To the North of this rugged terrain lies Kunlun mountain ranges and to the South ‘The Mighty Himalayas’. This plateau is origin of many great rivers including Yangtze, Brahmaputra, Salween, Indus, Hwang He, Irrawaddy and Mekong. Gravel, salt sakes, sandy and salt deserts and salt wastes dominate this area.

**NW Region.** Including Tian Shan and Kun Lun mountain ranges with heights ranging from 3000 to 6000 feet it is also intermingled with basins including Mongolian Plateau, Tarim Basin and Loess Basin. This area of China is mainly arid, eroded by winds and forms inland drainage basin. Some of the features of this area are as follows:-
(a) **Tarim Basin.** Between great Kunlun ranges (also known as the Pamirs of the west) to the South and Tien Shan (celestial mountains) to the North lies Tarim Basin with the average elevation of about 3000 feet. A number of rivers rise from these mountain ranges and loose themselves in the Taklimakan desert, one of the world’s most barren deserts, situated in this basin. Lop Nor, the Chinese Nuclear blast sites lie in this area.

(b) **Dzungarian Basin.** To the North of Tien Shan mountains lies the Dzungarian Basin. It consists of plain deserts with elevation of about 1500 feet sloping to the South-West. Most parts of this basin are covered with Barchans i.e. crescent shaped moving sand dunes.

(c) **Tien Shan Mountains.** This massive mountain range forms the North-West boundary of China with Kazakhstan. With an average height of 13000 to 15000 feet, the western most part is covered with glaciers and is source of river systems with vast drainage area. Lower slopes are characterised by large alpine meadows and some of China’s best grazing grounds.

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**Eastern Region.** Consisting of the region East of Taihang mountain ranges and Yunnan-Sichuan plateau right up to sea. This region is shaped by three main rivers i.e. Hwang He (Yellow River), Yangtze River and Pearl/Xia River.

The Rivers have eroded landforms in some parts and deposited rich alluvial soil in others. This is the area where along the Yellow and Yangtze River systems the Chinese civilizations flourished and prospered; this is also the area which has been traditionally the seat of power for most of the Chinese dynasties; and this is the area which is today the most developed in China. Topographically, it can further be divided into two parts, Northern and Southern, which in turn are represented by two main dialects, Mandarin in the North and Cantonese in the South. These dialects share a writing system but are almost mutually incomprehensible when spoken. This region is also China’s agricultural region. However – and this is the single most important fact

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about China – it has about one-third the arable land per person as compared to the rest of the world\textsuperscript{11}. This aspect will be discussed further later.

**China’s Internal Divisions**

Internally, China can be divided into two parts by a line called the “15 inch isohyets”. The 15 inch isohyets line runs roughly from Heihe in Heilongjiang in the North to Tengchong County, Yunnan in the South. While areas east of this line receive more than 15 inches of rainfall every year, areas to the west receive much lesser rainfall. Thus, China is a country with immense geographic divisions between its fertile eastern lowlands and the arid, sparsely populated highlands to its west.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{map.png}
\caption{15 inch Isohyets and China Population Density (Source Stratfor)\textsuperscript{12}}
\end{figure}

The bulk of what the world regards as ‘The Chinese’ are the ethnic Hans who live east and south of this line. Thus this area is known as ‘Han China’ and is also regarded as “The Chinese heartland”. It is believed that over a billion people live in an area about half the size of the United States\textsuperscript{13}. To ensure safety of the heartland, over the years, the boundaries of the heartland were pushed outwards so as to integrate regions lying on

\textsuperscript{11}Edited by Kenneth Pletcher, Understanding China: The Geography of China, Britannica Educational publishing in association with Rosen Educational services, 2011

\textsuperscript{12}\texttt{<a href=\texttt{https://www.stratfor.com/image/15-inch-isohyet-and-china-population-density}\textsuperscript{15-inch Isohyet and China Population Density</a> is republished with permission of Stratfor.}

\textsuperscript{13}Ibid
the periphery which were at a distance from the heartland and suffered from poor connectivity. These regions thus provided a buffer to the heartland from any threat emanating over the continental dimensions. Thus, areas further to the west of the 15 inches isohyets line are known as the “Buffer Regions” as they enclose the heartland like a shell and provide a buffer against any aggression. It can thus be seen that, on account of its geography and history, China is split into two fundamental parts “The Chinese Heartland” and the “Buffer regions” surrounding it. While the Chinese heartland comprises of provinces along the eastern coast and those slightly to the east of the coast, the four provinces of Tibet, Xinjiang, Inner Mongolia and Manchuria are the buffers which provide the protection to this heartland.

![China's Heartland and Buffer Regions](image)

**Fourth Largest Country with Limited Arable Land**

It is a well-known fact that China is the most populous nation in the world. Such a huge population imposes substantial stress on the country’s natural resources, including arable land. Although China ranks fourth in the world in terms of total arable land, the pressure of population on this precious available agricultural land is acute. China’s arable land is primarily in the eastern region, the same area where a majority of china’s vast population is concentrated. In addition to extensive areas of western China which are relatively uninhabited, substantial portions of southern China are unfavourable for agriculture because of mountainous topography.
As a consequence, only about 12% of China’s land is arable which are and that too are prominently found in Eastern China. Thus, China feeds somewhat less than one-quarter (25%) of the world’s population on approximately 7% of the world’s arable land. Facing increasing difficulties to feed its growing population, China is turning to its “blue territories” and high seas for food. Chinese marine experts have advocated the country’s food system to be more maritime based. Such a maritime based food security strategy aims at intensifying its fishery operations in its territorial waters and Exclusive Economic Zones (EEZs) as well as expanding them to its Distant Water Fishing (DWF) reach, to utilise the resources of the oceans. While this shift in China’s food system contributes to its food security, it also has serious regional and global implications15. These effects are already evident in the East and South China seas where

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the China's search for maritime based food is one of the contributors to it aggressively seeking sovereignty rights in these disputed waters.

**A Restless Thirsty Dragon**

**China’s Water Crisis.** China is struggling to stave off a serious water crisis by 2030. It is estimated that, with water consumption soaring, per capita water resources in China will drop to 1,760 cubic meters, perilously close to the 1,700 cubic metres which is an internationally recognized benchmark for water shortages. The gravity of the problem lies in the fact that, though China has adequate water resources, these are unevenly distributed with the northern parts being water deficient while the southern parts are water rich\(^{16}\).

As a consequence, China despite being the source country of the Yangtze, Mekong, Yarlung-Tsangpo, Indus, Irrawaddy, Sutlej and the Salween Rivers, has a tendency of exercising a fair degree of hydro-hegemony. On this account, Chinese statistics speak for themselves. Two thirds of China’s 669 cities suffer from water shortage and over 300 million lack access to clean drinking water. This grim picture has been painted as “wherever there is a river, there is no water; wherever there is water, it is heavily polluted”. Today, mining and processing of coal and electricity generation, which is concentrated up North, account for a fifth of the national water consumption. It is estimated that by 2020, China’s growing dependence on coal for primary energy is will grow by an additional billion metric tons annually thus representing a 30 per cent increase. This will create a significant geographical headache for the government as, while the coal reserves are concentrated in the dry northern provinces of Gansu, Ningxia, Shaanxi, Xinjiang and Inner Mongolia, the water to develop them is in the south.

To overcome this looming water crisis, China has gone back to what Mao had said of overcoming China’s water problems “Since the south has a great deal of water, and the north very little, we should borrow some of it.”\(^{17}\) China has thus embarked upon ambitious projects of damming Chinese rivers with the twin aims of producing Hydroelectricity and reducing the carbon foot print as well as diversion of water to its Northern water starved areas. One of the major projects amongst these is the South to North Water Transfer Project (SNWTP) (nanshuibeidiaogongcheng).

**South-North Water Transfer Project (SNWTP).** The $62 Billion South-North Water Transfer Project was launched in 2002 and is the largest water transfer system in the world. It has three routes Eastern, Central and Western. The Eastern Route diverts water from the lower reaches of the Yangtze River to the North, while the Central Route mainly serves the domestic and industrial water requirements of Beijing, Tianjin and cities in Hebei, Henan and Hubei provinces. The Western Route, which is in the construction stage, diverts water from the upper reach tributaries of the Yangtze River


to the upper reach of the Yellow river. The whole project is envisioned to be completed in 2050 with a total diversion capacity of 45 billion m³ through the three routes.

China’s South to North Water Transfer Project

China’s damming of other Asian Rivers. Although SNWTP will ease the imbalance between supply and demand of water resources in Northern China, even post its completion, water resources per capita will still be at the lowest level of about 300 m³/person. Thus, China is undertaking damming programmes on other Asian rivers that rise in Tibet namely the Indus, Sutlej, Mekong, Brahmaputra, Salween, Irrawaddy and Yangtze. The Fig below shows some of the Chinese dams that have been built or are under construction/planning on some of the major rivers originating in Tibet.

18Source : Asia Pacific Memo
Chinese Dams on Major Asian Rivers\textsuperscript{19}

Effects of some of the programmes that China has taken on Asian rivers are as follows\textsuperscript{20}:-

(a) China’s dams on the Mekong River which flows through Yunnan province in China, Laos, Thailand, Cambodia and Vietnam and feeds an estimated 60 million people has resulted in it being severely depleted. China has built three dams on the Mekong since 1996, and the number is set to increase to twelve in the coming years.

(b) On China’s border with Myanmar, a giant hydro-electric dam named Myistsone is being constructed near the source of the Irrawaddy to supply power to Yunnan. This dam is affecting the Kachin people of north Burma who are being left to pick up the environmental tab\textsuperscript{21}.

(c) Beijing’s move to build 13 dams on the middle and lower reaches of the Salween River further stimulates anxieties of China’s dominance over the

\textsuperscript{19}Source: https://www.google.co.in/search?q=china%27s+dam+on+tibet+rivers


hydrological contours of South Asia as downstream states, Myanmar and Thailand do not possess the means to directly and physically influence the flow\(^\text{22}\).

(d) As far as Brahmaputra River (Tsang Po in Chinese) in concerned, a 38 GW dam at Motuoat the Great Bend is planned with other large infrastructure-based hydro projects which are set to majorly alter the riverscape\(^\text{23}\). Experts believe that the 38 GW dam is not primarily designed to generate electrical power for Tibet as there is no electrical load requirements in the south-eastern part of Tibet. It is felt that this project has been designed with an eye on fuelling the Eastern economic provinces of China.

(e) **Brahmaputra Water Diversion.** But, the real concern for the downstream regions does not stem from generation of hydro-electricity but from a proposal aimed at diverting 200 billion cubic meters of water from the Brahmaputra to the Yellow River for easing existing water shortages in cities of Shaanxi, Beijing and Tianjin in Northern China. This proposal is separate from the great SNWTP Project. Although this project raises concerns, sceptics of the same feel that the cost of diverting Brahmaputra’s water would be higher than the common alternative of desalination of sea water. Therefore, China’s implementation of this massive diversion project is still not a certainty\(^\text{24}\).

From the above it evident that the prospects of a solution being found to China’s water crisis looks to be extremely bleak. Thus, in the future, it is more than likely that China’s relentless quest for water will lead to a greater level of hydro hegemony on its part.

**China’s Geographical Dilemma: “Be Rich” or “Maintain Control”**

China is more enclosed than any other great power. The size of its population coupled with its secure frontiers and relative availability of resources, allows it to develop with minimal interaction with the rest of the world, as it did prior to the 19th Century. However, an insular China is a recipe for poverty. Given the ratio of arable land to population, a self-enclosed China will always remain a poor China.

For China to prosper, it has to engage in trade. However such a trade comes with its consequences. China’s mid-19th century trade with the British opened a new chapter in its history. For the first time, the Pacific coast was the interface with the world not Central Asia. This in turn, massively destabilized China. As trade between China and the world intensified, the Chinese who were engaged in trading increased their wealth dramatically. Those in the coastal provinces of China, the region most deeply involved in trading, became relatively wealthy while the Chinese in the interior (not the buffer


\(^{24}\text{http://goodpal.hubpages.com/hub/Hydro-Projects-in-Tibet-Thirsty-Dragon-Restless-Neighbors#}
regions, which were always poor, but the non-coastal provinces of Han China) remained poor subsistence farmers. More intense the trade, wealthier the coastal leadership and greater the disparity between the regions.

However as trade increased, foreigners allied with Chinese coastal merchants and politicians thus becoming more powerful than the central government. The worst geopolitical nightmare of China came true. China fragmented, breaking into regions, some increasingly under the control of foreigners, particularly foreign commercial interests. On the whole, Beijing lost control over the regions.

This 19th Century geographical dilemma holds true even today. Even till 2013 (largely applicable even today), let alone the buffer regions, even in heartland China, a huge income disparity exists between the coastal and inner provinces. This fact is clearly vindicated by the figure given below.

![China Annual Per Capita Income by Province](http://www.vifindia.org)
Using data from the 2011 China Statistical Yearbook, China-based blogger Matthew Hartzell had created the above map that shows just how large the income gap is in China. This map shows that China’s coastal provinces are relatively wealthy and the country gradually becomes poorer the further west it goes. Mathew Hartzell had also gone further and plotted two more maps.

China’s Province wise Total Income, Urban Disposable Income and Rural Income (Source: Matthew Hartzell 2011)

Although these maps appear to be similar, they in fact show three different data, namely, the “Total income by Province”(also shown in the previous figure), “Annual Urban Disposable Income by Province” and the “Annual Rural Income by Province”. These maps further reveal that besides total income, even urban disposable income in coastal cities is much higher than it is in the interior, and rural Chinese people, along the coast do far better than they do in the interiors. Thus what emerges is that whether you are a rich businessman or a farmer, you’re better off making a living in Shanghai, Jiangsu and Zhe-Jiang than you are in Hunan, Henan or Jiangxi.

However, the apportioning the Chinese economic disparity on account of a divide between the coastal vs interior or urban vs rural is easier said than done. The same is on
account of its internal migration. It is estimated that over 100 million people internally migrate each year within the country for a better living. While doing so a ‘Hukou’, a household registration document that functions as an internal passport is required. Chinese migrants are only eligible to retain social benefits in their city of origin. Therefore, those who migrate internally are essentially undocumented workers and do not count toward municipal economic statistics. Thus Chinese economic statistics don’t accurately account for internal migration. Hence the income of Beijing or Shanghai is actually lesser than what appears simply because so many of its migrant workers technically "live" elsewhere. That said simple statistics cannot be ignored. It is estimated that in 2009, China’s 12 coastal provinces (out of 31) accounted for 65% of the country’s GDP, and had a collective per capita GDP 50% higher than the national average.25

The same is apparent from a look at the Gini coefficient of Asian nations shown in the figure below.

![Gini Coefficients of some Asian Nations](image)

The Gini Index is a statistical measure that is used to represent unequal distributions, e.g. income distribution. Gini coefficient is a widely used measure of inequality and takes into account income distribution among residents of a country. The higher the Gini coefficient, the greater is the inequality. It can take any value between 1 and 100 points (or 0 and 1). The closer the value is to 100 the greater is the inequality. 40 or 0.4 is the warning level set by the United Nations. It is evident that from the 1990’s level, Chinese income disparities are much higher and at worrying levels.

As a consequence, China’s primary geopolitical dilemma is how to achieve its China Dream without compromising on the authority of the CPC? The China dream looks at raising the standard of living of all Chinese by promising prosperity for all. For this to happen, China must engage in international trade. For it do so, it must use its coastal cities as an interface with the world. When that happens, the coastal cities and the surrounding regions become increasingly wealthy. The influence of foreigners over this region increases and the interests of foreigners and the coastal Chinese provinces start converging. As a consequence, they begin to compete with the interests of the central government. This in turn weakens the central government and as a consequence there is a threat of instability being caused in the Chinese heartland. The most disturbing part is that an unstable heartland allows the buffer regions to spin out of control. Thus, China’s geographical dilemma relates to engaging in international trade and yet maintaining internal harmony. This fact has always been recognised and Beijing has followed a major “Go West” campaign of public investments for the Far West. The fact that this dilemma still exists was evident when, recently in Jul 2016, Chinese President Xi Jinping, while presiding over a symposium on poverty alleviation in Yinchuan, China’s Ningxia Hui Autonomous Region had stressed upon the necessity of pairing and cooperation between the eastern and western regions. Elaborating upon the same he had brought out that, China has been using this strategy for the last 20 years and the widening gap between the east and west had been curbed to a great extent due to this. Also, “significant progress” in poverty alleviation of the poor western areas and old revolutionary base areas had been made. He had therefore called for “Cooperation between paired eastern and western regions in poverty alleviation to continue for a long time”.

**China’s Physical Resources.** For many years the juggernaut of Chinese export oriented economy required a continuous supply of raw material and energy resources. Of late, though the requirements for the same have reduced, China still requires a sizeable quantum of physical resources for its economic growth. Physically, China has been gifted with adequate raw material. The problem though lies in its exploitation as, most of the raw material and oil lies in the restive Xinjiang region where communication and lack of water hinders its exploitation.

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Thus, China faces the following geographical dilemmas on account of its requirements for raw material and energy resources:

(a) **Malacca Dilemma.** Former Chinese President Hu Jintao first fully articulated in 2003 what has become known as the “Malacca Dilemma.” That laid out Chinese fears that some unnamed power — such as the United States — could use its dominance at sea to blockade the narrow-but-critical sea lane in the Strait of Malacca near Singapore, through which about three-quarters of Chinese oil imports pass. A look at sources of Chinese oil imports would explain the same.

(b) Signs of the articulation coming true became stronger in April 2015, when China surpassed the United States as the top global importer of crude oil by importing a record 7.4 million barrels of oil a day to the US’s 7.2 million barrels. More important than the 7 million barrels was the fact that Chinese dependence on overseas oil, and especially on oil from the Middle East, had further grown in recent years.

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Breakdown of China’s Crude Oil Imports by Source Country (as of 2103)  

From the 2007 levels of 46 percent coming from the Middle East, in 2014, the levels rose to 52 percent. Thus despite years of effort to source more energy from places like Africa, Latin America, Central Asia, and Russia, China’s dependence on oil from the Middle East was not diminishing. Those diversification efforts “will help stem the rate of growth of dependence on Middle East oil, but they don’t change the fundamentals,” said Bruce Jones, director of the Foreign Policy program at the Brookings Institution and author of The Risk Pivot. “China will remain heavily dependent on Middle Eastern oil and gas for 30 or 40 years at least.”

Thus to obviate its Malacca dilemma, China has begun making deep forays into the Indian Ocean and has been on an economic charm offensive in the IOR. A manifestation of this is the ‘String of Pearls’ strategy which seeks to increase access to ports and airfields, develop special diplomatic relationships, and modernize military forces that extend from the South China Sea through the Strait of Malacca, across the Indian Ocean, and on to the Persian Gulf.

(c) CAR and West Asia. Increased international dependence on oil and gas, as well as China’s growing thirst for these resources has intensified competition over these fuels. On account of this and the aforesaid Malacca dilemma, China has been diversifying its sources of energy in order to reduce its dependency on oil from the Middle East. Given the fragility of the maritime supply lanes via the

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31 ibid
Indian Ocean and the Strait of Malacca in wartime, these factors make it more important for China to control Central Asia, as it is both, a producer and a transit region. Therefore, China has pursued the exploitation rights of several oil and gas fields in Central Asia through bids and purchases. However as already stated, despite attempts at diversification of energy sources China’s Malacca dilemma is here to stay for some while.

**China’s Geography: Inferences**

From an analysis of China’s Geography the following inferences can be drawn:

(a) China’s geographical position gives it a distinct advantage. **Geography provides China the opportunity to become both a continental and maritime power.**

(b) China, when it controls Tibet, Xinjiang, Inner Mongolia and Manchuria, can insulate itself from the world. The unique geography of China provides it with the wherewithal to shield itself from the outside influence. An insulated China is easier to manage by the central authority. This aspect of China can be seen throughout its existence; be it in the form of construction of Great Wall of China or controlled trade with the outside world. In contemporary times, this is also assuming the form of a great firewall around its internet services. **It is likely that, this trend will continue for the foreseeable future.**

(c) However, for China to develop, it must engage in international trade. At present it uses its coastal cities as an interface with the world. While doing so the coastal cities and the surrounding region become increasingly wealthy. As a consequence, the interests of the Chinese coastal provinces compete with that of Beijing. In addition, income disparities between the Coast and the Interiors keeps widening. Both of these could lead to unrest and instability in Chinese Heartland. This is unacceptable to China. **Maintaining the unity of the heartland will remain a core Chinese geopolitical imperative.**

(d) For control of the buffers, Han China has to be strong and united. Presently Han China is strong and hence has been able to politically integrate all its erstwhile buffer regions. However, on account of ethnic, economic and regional disparities between the buffer regions and Mainland/Han China, the buffer regions would continue to resist this integration. **Thus the central theme of the CPC’s internal policy will be a united Han China which can effectively control its exterior buffer regions.** The present stress on the dominance of the CPC which pursues a ‘regional periphery’ policy is in consonance with such a belief.

(e) From the above it emerges that, the primary Chinese geopolitical imperative would be to find ways of engaging in trade and yet maintaining Heartland unity thereby ensuring that the buffer regions remain firmly under central control.
(f) China's settlement of land borders with all but India gives it the ability to concentrate on its maritime domain. However, the India factor and the restive peripheral regions would necessitate the availability of a defence forces component which has the ability to execute and win limited wars decisively as well as respond to uncalled for situations in the peripheral regions at the earliest.

(g) Strategies which enable China to engage in trade with the world through its western provinces (buffers) would serve a double purpose, firstly, it would enhance the living standards of these provinces and secondly, it would allow China to tighten its control over these buffers. **China's One Belt One Road (OBOR) is an initiative/strategy launched with such a purpose.**

(h) China's quest for breaking free from the first and second island chains has been severely dented by the Jul 2016 Permanent Court of Arbitration (PCA) award. This award has clearly stated that there was no legal basis for China to claim historic rights to resources within the sea areas falling within the ‘nine-dash line’.

The PCA award further found that all of the high-tide features in the Spratly Islands are legally “rocks” that do not generate an exclusive economic zone or continental shelf as also the UNCLOS does not provide for a group of islands such as the Spratly Islands to generate maritime zones collectively as a unit. In fact it even went further to state that China's large scale land reclamation and construction of artificial islands at seven features in the Spratly Islands has caused severe harm to the coral reef environment and that China has violated its obligation under UNCLOS to preserve and protect the marine environment with respect to fragile ecosystems and the habitat of depleted, threatened, or endangered species. The PCA award notwithstanding, China's quest for breaking free from the first and second island chains will continue in the near future through strategic, diplomatic, economic and military means. This quest would involve the reunification of Taiwan and domination and subsequent control of the East and South China seas. As regards the military dimension necessitated by such a quest, China would have to develop a blue water navy capability.

(i) **Finding Alternates to the Paucity of Arable Land.** China has almost one third arable land per person as compared to the rest of the world. This overriding reality of feeding its hungry mouths would in the years to come guide future Chinese policies. **China's search for farm lands in Africa/Latin America or its focus on Maritime food industry is a trend which would continue into the future.**

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34Ibid
Quenching the Dragon's Thirst. Future Chinese generations would be more thirty than their forefathers. Hence, taking advantage of being an upper riparian state and home to some of the great Trans Asian Rivers, China has embarked upon some ambitious projects of constructing dams on these rivers with the twin aims of producing hydroelectricity and diverting waters to its water starved Northern areas. Apart from its South to North Water Transfer Project (SNWTP), China also has elaborate plans to dam some of the world's great rivers such as Mekong, Brahmaputra, Salween and Irrawaddy. Thus, in the near future, Chinese hydro hegemony will continue unabated. Such an approach could eventually result in a conflict of interests with its neighbours.

China's Appetite for Resources. China's hunger for resources will force it to look for new avenues of import and the necessity of securing the flow of these to Chinese shores. Some likely ramifications of the same are as follows:-

(i) Its insatiable hunger for resources would cause China to seek expansion/enhancement of influence not geographic (colonial) but in terms of its ability to influence and extract its requirements related to security, energy and economy. This could cause a conflict of interests with the comity of Nations.

(ii) Integration of China with CAR by the way of multiple land routes will continue. Apart from present route through Kazakhstan, it could explore the possibility of another route through Afghanistan also. To enable this, Chinese involvement in Afghanistan independent of Pakistan is likely. China would also look to remain engaged with Afghanistan post US withdrawal as when that happens. The prospects of the China Pakistan Economic Corridor (CPEC) providing a secure corridor for oil and gas outlet from the warm waters of Indian Ocean through the Gwadar port in Pakistan would continue to be explored and worked upon.

(iii) In the decades to come, besides geostrategic requirements, energy security would lead to continued Chinese Naval presence in the IOR.

Conclusion

Geography puts China in a Catch 22 situation. Its enviable position in the Asian landmass gives it the ability of becoming both a continental and maritime power, however, the same very geography creates internal dynamics which affect its stability. Thus, if China can manage and control its internal contradictions and dynamics, geography is a boon to it else, it's a bane.

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The Vivekananda International Foundation is an independent non-partisan institution that conducts research and analysis on domestic and international issues, and offers a platform for dialogue and conflict resolution. Some of India’s leading practitioners from the fields of security, military, diplomacy, government, academia and media fields have come together to generate ideas and stimulate action on national security issues.

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