

Great Wall of China

The **Great Wall of China** (traditional Chinese: 萬里長城; simplified Chinese: 万里长城; pinyin: Wànlǐ Chángchéng, literally "ten thousand li long wall") is a series of fortifications in China. They were built across the historical northern borders of ancient Chinese states and Imperial China as protection against various nomadic groups from the Eurasian Steppe. The first walls date to the 7th century BC; these were joined together in the Qin dynasty. [4][5] Successive dynasties expanded the wall system; the best-known sections were built by the Ming dynasty (1368–1644).

To aid in defense, the Great Wall utilized <u>watchtowers</u>, troop barracks, garrison stations, signaling capabilities through the means of smoke or fire, and its status as a transportation corridor. Other purposes of the Great Wall have included <u>border controls</u> (allowing control of immigration and emigration, and the imposition of duties on goods transported along the <u>Silk Road</u>), and the regulation of trade. [6]

The collective fortifications constituting the Great Wall stretch from Liaodong in the east to Lop Lake in the west, and from the present-day Sino–Russian border in the north to Tao River in the south: an arc that roughly delineates the edge of the Mongolian steppe, spanning 21,196.18 km (13,170.70 mi) in total. It is a UNESCO World Heritage Site, and was voted one of the New 7 Wonders of the World in 2007. Today, the defensive system of the Great Wall is recognized as one of the most impressive architectural feats in history.

Names

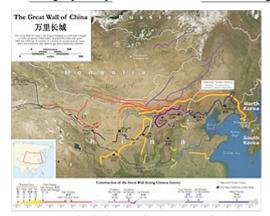
The collection of fortifications known as the Great Wall of China has historically had a number of different names in both Chinese and English.

Great Wall of China

萬里長城 / 万里长城



The Ming dynasty Great Wall at Jinshanling



Map of all the wall constructions

General information

Type Fortification

Country China

Coordinates 40.68°N 117.23°E

UNESCO World Heritage Site

Official name The Great Wall

Location Asia-Pacific

Criteria Cultural: i, ii, iii, iv, vi

Reference 438 (https://whc.unesco.org/en/

list/438)

Inscription 1987 (11th Session)

Area 2,151.55 ha **Buffer zone** 4.800.8 ha

Technical details

In <u>Chinese histories</u>, the term "Long Wall(s)" (t 長城, s 长城, *Chángchéng*) appears in Sima Qian's *Records*



<u>Huayi tu</u>, an 1136 map of China with the Great Wall depicted on the northern edge of the country

north of the Warring States and to the more unified construction of the First

of the Grand

referred both to

great walls built

it

separate

and

Historian,

where

between

the

Emperor.^[11]
The <u>Chinese</u> character 城,

meaning city or fortress, is a phono-semantic compound of the "earth" radical \pm and phonetic 成, whose Old Chinese pronunciation has been reconstructed as *deŋ. [12] It originally referred to the rampart which surrounded traditional Chinese cities and was used by extension for these walls around their respective states; today, however, it is more commonly used to mean "city". [13]

The longer Chinese name "Ten-Thousand Mile Long Wall" (t 萬里長城, s 万里长城, Wànlǐ Chángchéng) came from Sima Qian's description of it in the *Records*, though he did not name the walls themselves as such. The AD 493 *Book of Song* quotes the frontier general Tan Daoji referring to "the long wall of 10,000 miles", closer to the modern name, but the name rarely features in pre-modern times otherwise. [14] The traditional Chinese mile (里, l) was an often irregular distance that was intended to show the length of a standard village and varied with terrain but was usually standardized at distances around a third of an English mile (540 m).[15] However, this use of "ten-thousand" (wàn) is figurative in a similar manner to the Greek and English *myriad* and simply means "innumerable" or "immeasurable". [16]

Size 21,196.18 km (13,170.70 mi)^[1][2][3]

Great Wall of China

Traditional Chinese 長城

Simplified Chinese 长城

Literal meaning "The Long Wall"

Transcriptions

Standard Mandarin

<u>Hanyu Pinyin</u> Chángchéng

<u>Wade–Giles</u> Ch'ang²-ch'eng²

IPA [tshǎn,tshǎn]

Wu

Romanization $zan^{\frac{\pi}{2}} zen^{\frac{\pi}{4}}$

Yue: Cantonese

Yale RomanizationCheung4 sing4JyutpingCoeng4sing4IPA[tshœnJ.sɪŋJ]

Southern Min

Hokkien POJ Tng-sian Tai-lo Tng-siann

Alternative Chinese name

 Traditional Chinese
 萬里長城

 Simplified Chinese
 万里长城

Literal meaning "The 10,000-li Long Wall"

Transcriptions

Standard Mandarin

<u>Hanyu Pinyin</u> Wànlǐ Chángchéng

Wu

Romanization Vae[±]-li[±] zan[∓]-zen[∓]

Yue: Cantonese

Yale Romanization Maan⁶lei⁵ Cheung⁴sing⁴

Jyutping Maan⁶-lei⁵ coeng⁴-sing⁴

IPA [man-1.lej/l tshœn/J.sɪŋ-J]

Southern Min

Tâi-lô Bān-lí tng-siânn

Because of the wall's association with the First Emperor's <u>supposed tyranny</u>, the <u>Chinese dynasties</u> after <u>Qin</u> usually avoided referring to their own additions to the wall by the name "Long Wall". Instead, various terms were used in medieval records, including "frontier(s)" (\mathbf{E} , Sai), \mathbf{E} "rampart(s)" (垣,

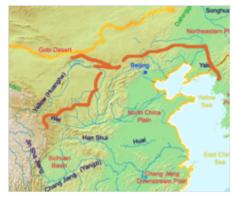
Yuán), [18] "barrier(s)" (障, Zhàng), [18] "the outer fortresses" (外堡, Wàibǎo), [19] and "the border wall(s)" (t 邊牆, s 边墙, Biānqiáng). [17] Poetic and informal names for the wall included "the Purple Frontier" (紫塞, Zšài) [20] and "the Earth Dragon" (t 土龍, s 土龙, Tǔlóng). [21] Only during the Qing period did "Long Wall" become the catch-all term to refer to the many border walls regardless of their location or dynastic origin, equivalent to the English "Great Wall". [22]

Sections of the wall in south <u>Gobi Desert</u> and <u>Mongolian</u> <u>steppe</u> are sometimes referred to as "Wall of Genghis Khan", even though <u>Genghis Khan</u> did not construct any walls or permanent defense lines himself. [23]

The current English name evolved from accounts of "the Chinese wall" from early modern European travelers. [22] By the nineteenth century, [22] "the Great Wall of China" had become standard in English and French, although other European languages such as German continue to refer to it as "the Chinese wall". [16]

History

Early walls



The Great Wall of the Qin stretches from Lintao to Liaodong.

The Chinese were already familiar with the techniques of <u>wall-building</u> by the time of the <u>Spring and Autumn period</u> between the 8th and 5th centuries BC. During this time and the subsequent <u>Warring States period</u>, the states of Qin, Wei, Zhao, Qi, Han, Yan, and <u>Zhongshan</u> all constructed extensive fortifications to defend their own borders. Built to withstand the attack of small arms such as swords and spears, these walls were made mostly of stone or by stamping earth and gravel between board frames.

The state of Qin emerged victorious in 221 BC; its ruler, now the First Emperor of a unified

China, intended to centralize rule and prevent the resurgence of feudal lords; in doing so, he ordered the destruction of the sections of the walls that divided his empire among the former states. To position the empire against the <u>Xiongnu</u> people from the north, however, he ordered the building of new walls to connect the remaining fortifications along the northern frontier. "Build and



The Great Wall of the <u>Han</u> is the longest of all walls, from Mamitu, near <u>Yumenguan</u>, to Liaodong.

move on" was a central guiding principle in constructing the wall, implying that the Chinese were not erecting a permanently fixed border. $\frac{[27]}{}$

Transporting the large quantity of materials required for construction was difficult, so builders always tried to use local resources; stone was used in montane areas, while <u>rammed earth</u> was used while building in the plains. There are no surviving historical records indicating the exact length and course of the Qin walls; most of the ancient walls have eroded away over the centuries, and very few sections remain today. The human cost of the construction is unknown, but it has been estimated by some authors

that hundreds of thousands of workers died building the Qin wall. Later, the Han, the Northern dynasties and the Sui all repaired, rebuilt, or expanded sections of the Great Wall at great cost to defend themselves against northern invaders. The Tang and Song dynasties did not undertake any significant effort in the region. Dynasties founded by non-Han ethnic groups also built border walls: the Xianbei-ruled Northern Wei, the Khitan-ruled Liao, Jurchen-led Jin and the Tangut-established Western Xia, who ruled vast territories over Northern China throughout centuries, all constructed defensive walls, albeit being further north—reaching into the environs of present-day Mongolia—than Han-built fortifications.

Ming and Qing eras

The Ming dynasty made substantial contributions to the Great Wall, following their defeat to the Oirats in the Battle of Tumu. This defeat had come in the context of protracted conflict with Mongol tribes; a new strategy for defense was thus realized by constructing walls along the northern border of China. Acknowledging the Mongol control established in the Ordos Desert, the wall followed the desert's southern edge, instead of incorporating the bend of the Yellow River.

Unlike the earlier fortifications, the Ming construction was stronger and more elaborate, due to the use of bricks and stone instead of rammed earth. Up to 25,000 watchtowers are estimated to have been constructed on the wall. [32] As Mongol raids



The extent of the $\underline{\text{Ming Empire}}$ and its walls

continued periodically over the years, the Ming devoted considerable resources to repair and reinforce the walls; sections near the Ming capital of Beijing were especially strong. [33] Under general Qi Jiguang's supervision, 1,200 watchtowers from Shanhaiguan Pass to Changping were constructed between 1567 and 1570, and sections of the ram-earth wall were faced with bricks. [34]

During the mid–15th century, the Ming also built a so-called "Liaodong Wall". It enclosed the agricultural heartland of the <u>Liaodong</u> province, protecting it against potential incursions by Jurchen-Mongol Oriyanghan from the northwest and the <u>Jianzhou Jurchens</u> from the north. While stones and tiles were sometimes used here, it was otherwise simply an earth dike with moats on both sides. [35]

Towards the end of the Ming, the Great Wall helped defend the empire against the Manchu invasions that began around 1600. Even after the loss of all of Liaodong, the Ming army held the heavily fortified Shanhai Pass, preventing the Manchus from conquering the Chinese heartland. The Manchus were finally able to cross the Great Wall in 1644, after Beijing had already fallen to Li Zicheng's short-lived Shun dynasty. Before this time, the Manchus had crossed the Great Wall multiple times to raid, but this time it was for conquest. The gates at Shanhai Pass were opened on May 25 by the commanding Ming general, Wu Sangui, who formed an alliance with the Manchus, hoping to use the Manchus to expel the rebels from Beijing. The Manchus quickly seized Beijing instead, and eventually defeated both the Shun dynasty and the remaining Ming resistance, consolidating the rule of the Qing dynasty over all of China proper. [37]

Under Qing rule and the <u>annexation of Mongolia into the empire</u>, China's borders extended beyond the Great Wall; work on it for the purpose of border defense was thus discontinued. Construction nevertheless persisted with projects like the Willow Palisade; following a line similar to that of the

Foreign accounts

None of the <u>Europeans</u> who visited China or Mongolia in the 13th and 14th centuries, such as <u>Giovanni da Pian del Carpine</u>, <u>William of Rubruck</u>, <u>Marco Polo</u>, <u>Odoric of Pordenone</u> and <u>Giovanni de' Marignolli</u>, mentioned the Great Wall. [40][41]

The North African traveler <u>Ibn Battuta</u>, who also visited China during the <u>Yuan dynasty c.</u> 1346, had heard about China's Great Wall, possibly before he had arrived in China. He wrote that the wall is "sixty days' travel" from Zeitun (modern <u>Quanzhou</u>) in his travelogue <u>Gift to Those Who Contemplate the Wonders of Cities and the Marvels of Travelling</u>. He associated it with the <u>legend of the wall</u> mentioned in the <u>Qur'an</u>, which <u>Dhul-Qarnayn</u> (commonly associated with <u>Alexander the Great</u>) was said to have erected to protect people near the land of the rising sun from the savages of <u>Gog and Magog</u>. However, Ibn Battuta could find no one who had either seen it or knew of anyone who had seen it, suggesting that although there were remnants of the wall at that time, they were not significant. [44]

Soon after Europeans reached Ming China by ship in the early 16th century, accounts of the Great Wall started to circulate in Europe, even though no European was to see it for another century. Possibly one of the earliest European descriptions of the wall and of its significance for the defense of the country against the "Tartars" (i.e. Mongols) may be the one contained in João de Barros's 1563 *Asia*. [45] Other early accounts in Western sources include those of Gaspar da Cruz, Bento de Goes, Matteo Ricci, and Bishop Juan González de Mendoza, [46] the latter in 1585 describing it as a "superbious and mightie work" of architecture, though he had not seen it. [47] In 1559, in his work "A Treatise of



Part of the Great Wall of China (April 1853, X, p. 41)^[39]



The Great Wall in 1907

China and the Adjoyning Regions", Gaspar da Cruz offers an early discussion of the Great Wall. Perhaps the first recorded instance of a European actually entering China via the Great Wall came in 1605, when the Portuguese Jesuit brother Bento de Góis reached the northwestern Jiayu Pass from India. [48] Early European accounts were mostly modest and empirical, closely mirroring contemporary Chinese understanding of the Wall, [49] although later they slid into hyperbole, [50] including the erroneous but ubiquitous claim that the Ming walls were the same ones that were built by the first emperor in the 3rd century BC. [50]

When China opened its borders to foreign merchants and visitors after its defeat in the <u>First</u> and <u>Second</u> <u>Opium Wars</u>, the Great Wall became a main attraction for tourists. The <u>travelogues</u> of the later 19th century further enhanced the reputation and the mythology of the Great Wall. [51]

Course

A formal definition of what constitutes a "Great Wall" has not been agreed upon, making the full course of the Great Wall difficult to describe in its entirety. ^[52] The defensive lines contain multiple stretches of ramparts, trenches and ditches, as well as individual fortresses.

In 2012, based on existing research and the results of a comprehensive mapping survey, the National Cultural Heritage Administration of China concluded that the remaining Great Wall associated sites include 10,051 wall sections, 1,764 ramparts or trenches, 29,510 individual buildings, and 2,211 fortifications or passes, with the walls and trenches spanning a total length of 21,196.18 km (13,170.70 mi). It was further concluded that the Ming Great Wall measures 8,850 km (5,500 mi). This consists of 6,259 km (3,889 mi) of wall sections, 359 km (223 mi) of trenches and 2,232 km (1,387 mi) of natural defensive barriers such as hills and rivers. In addition, Qin, Han and earlier Great Wall sites are 3,080 km (1,914 mi) long in total; Jin dynasty (1115–1234) border fortifications are 4,010 km (2,492 mi) in length; the remainder date back to Northern Wei, Northern Qi, Sui, Tang, the Five Dynasties, Song, Liao and Xixia. About half of the sites are located in Inner Mongolia and Hebei (31% and 19% respectively).

Han Great Wall

Han fortifications start from <u>Yumen Pass</u> and <u>Yang Pass</u>, southwest of <u>Dunhuang</u>, in <u>Gansu province</u>. Ruins of the remotest Han border posts are found in Mamitu (t 馬迷途, s 马迷途, *Mǎmítú*, <u>1</u> "horses losing their way") near Yumen Pass.

Ming Great Wall

The Jiayu Pass, located in Gansu province, is the western terminus of the Ming Great Wall. From here, the wall travels discontinuously down the Hexi Corridor and into the deserts of Ningxia, where it enters the western edge of the Yellow River loop at Yinchuan. Here the first major walls erected during the Ming dynasty cut through the Ordos Desert to the eastern edge of the Yellow River loop. There, at Piantou Pass (t 偏頭關, s 偏头关, Piāntóuguān) in Xinzhou, Shanxi, the Great Wall splits in two with the "Outer Great Wall" (t 外長城, s 外长城, Wài Chǎngchéng) extending along the Inner Mongolia border with Shanxi into Hebei province, and the "Inner Great Wall" (t 內長城, s 內长城, Nèi Chǎngchéng) running southeast from Piantou Pass for some 400 km (250 mi), passing through important passes like the Pingxing Pass and Yanmen Pass before joining the Outer Great Wall at Sihaiye (四海冷, Sìhǎiyě), in Beijing's Yanqing County.



Great Wall of Han dynasty near Yumenguan



<u>Jiayuguan</u>, the westmost point of Ming Great Wall

The sections of the Great Wall around Beijing, were frequently renovated, and are regularly visited by tourists today. The <u>Badaling Great Wall near Zhangjiakou</u> is the most famous stretch of the wall, as it was the first section to be opened to the public in the People's Republic of China; foreign dignitaries would be

shown this section on visits to the Great Wall. [54] The <u>Badaling</u> Great Wall saw nearly 10 million visitors in 2018, and in 2019, a daily limit of 65,000 visitors was instated. [55] South of Badaling is the <u>Juyong Pass</u>; when it was used by the Chinese to protect their land, this section of the wall had many guards to defend the capital Beijing. Made of stone and bricks from the hills, this portion of the Great Wall is 7.8 m (25 ft 7 in) high and 5 m (16 ft 5 in) wide.

One of the most striking sections of the Ming Great Wall is where it climbs extremely steep slopes in <u>Jinshanling</u>. There it runs 11 km (7 mi) long, ranges from 5 to 8 m (16 ft 5 in to 26 ft 3 in) in height, and 6 m (19 ft 8 in) across the bottom, narrowing up to 5 m (16 ft 5 in) across the top. Wangjing Lou (t 望京樓, s 望京楼, Wàngjīng Lóu) is one of Jinshanling's 67 watchtowers, 980 m (3,220 ft) above sea level. Southeast of Jinshanling is the Mutianyu Great Wall which winds along lofty, cragged mountains from the southeast to the northwest for 2.25 km (1.40 mi). It is connected with Juyongguan Pass to the west and Gubeikou to the east. This section was one of the first to be renovated following the turmoil of the Cultural Revolution. [56]



Ming dynasty Great Wall at Jinshanling

At the edge of the Bohai Gulf is <u>Shanhai Pass</u>, considered the traditional end of the Great Wall and the "First Pass <u>Under Heaven</u>". The part of the wall inside Shanhai Pass that meets the sea is named the "Old Dragon Head". 3 km (2 mi) north of Shanhai Pass is Jiaoshan Great Wall (t 焦山長城, s 焦山长城, Jiāoshān Chángchéng), the site of the first mountain of the Great Wall. [57] 15 km (9 mi) northeast from Shanhaiguan is <u>Jiumenkou</u> (t 九門口, s 九门口, Jiǔménkǒu), which is the only portion of the wall that was built as a bridge.

In 2009, 180 km of previously unknown sections of the Ming wall concealed by hills, trenches and rivers were discovered with the help of infrared range finders and <u>GPS</u> devices. [58] In March and April 2015, nine sections with a total length of more than 10 km (6 mi), believed to be part of the Great Wall, were discovered along the border of Ningxia autonomous region and Gansu province. [59]

Characteristics

Before the use of bricks, the Great Wall was mainly built from rammed earth, stones, and wood. During the Ming, however, bricks were heavily used in many areas of the wall, as were materials such as tiles, lime, and stone. The size and weight of the bricks made them easier to work with than earth and stone, so construction quickened. Additionally, bricks could bear more weight and endure better than rammed earth. Stone can hold under its own weight better than brick, but is more difficult to use. Consequently, stones cut into rectangular shapes were used for the foundation, inner and outer brims, and gateways of the wall. Battlements line the uppermost portion of the vast majority of the wall, with defensive gaps a little over 30 cm (12 in) tall, and about 23 cm (9.1 in) wide. From the parapets, guards could survey the surrounding land. [60]

<u>Sticky rice mortar</u>, consisting of sticky rice soup mixed with <u>slaked lime</u>, was extensively used to hold bricks together; no human <u>bones</u> or body parts were ever incorporated into the mortar or any part of the wall, contrary to urban legend. Communication between the army units along the length of

the Great Wall, including the ability to call reinforcements and warn <u>garrisons</u> of enemy movements, was of high importance. Signal towers were built upon hill tops or other high points along the wall for their visibility. Wooden gates could be used as a trap against those going through. Barracks, stables, and armories were built near the wall's inner surface. [60]

Condition

While portions north of <u>Beijing</u> and near tourist centers have been preserved and even extensively renovated, in many other locations the wall is in disrepair. The wall sometimes provided a source of stones to build houses and roads. <u>[65]</u> Sections of the wall are also prone to <u>graffiti</u> and <u>vandalism</u>, while inscribed bricks were pilfered and sold on the market for up to 50 <u>renminbi</u>. <u>[66]</u> Parts have been destroyed to make way for construction or mining.

A 2012 report by the <u>National Cultural Heritage Administration</u> states that 22% of the Ming Great Wall has disappeared, while 1,961 km (1,219 mi) of wall have vanished. In 2007 it was estimated that more than 60 km (37 mi) of the wall in <u>Gansu</u> province may disappear in the next 20 years, due to erosion from sandstorms. In some places, the height of the wall has been



A more rural portion of the Great Wall that stretches through the mountains, here seen in slight disrepair

reduced from more than 5 m (16 ft 5 in) to less than 2 m (6 ft 7 in). Various square lookout towers that characterize the most famous images of the wall have disappeared. Many western sections of the wall are constructed from mud, rather than brick and stone, and thus are more susceptible to erosion. In 2014 a portion of the wall near the border of Liaoning and Hebei province was repaired with concrete. The work has been much criticized.

A section of the wall in Shanxi province was severely damaged in 2023 by construction workers, who widened an existing gap in the wall to make a shortcut for an excavator to pass through. Police described the act as causing "irreversible damage to the integrity of the Ming Great Wall and to the safety of the cultural relics". [70]

Visibility from space

Various <u>factoids</u> in popular culture claim that the Great Wall can be seen (with the naked eye) from space, with questionable degrees of veracity.

From the Moon

The Great Wall of China cannot be seen by the naked human eye from the $\underline{\text{Moon}}$. Even though the myth is thoroughly debunked, it is still ingrained in popular culture. The apparent width of the Great Wall as seen from the Moon would be the same as that of a human hair viewed from 3 km (2 mi) away. [74]

One of the earliest known references to the myth of the Great Wall's visibility from the Moon appears in a letter written in 1754 by the English antiquary William Stukeley. Stukeley wrote that, "This mighty wall [Hadrian's wall] of four score miles [130 km] in length is only exceeded by the Chinese Wall, which makes a considerable figure upon the terrestrial globe, and may be discerned at the Moon." The claim was also mentioned by Henry Norman in 1895, writing "besides its age it enjoys the reputation of being the only work of human hands on the globe visible from the Moon." The myth also appears in the 1932 strip of *Ripley's Believe It or Not!*.

From low Earth orbit

The Great Wall has also been claimed to be visible from <u>low Earth orbit</u> (an altitude extending from 160 km (100 mi)). <u>NASA</u> states that it is barely visible, and only under nearly perfect conditions; it is no more conspicuous than many other human-made objects. [78]

Astronauts testifying to its visibility from space include <u>Gene Cernan^[a]</u> and <u>Ed Lu; ^[b]</u> <u>Yang Liwei</u>, China's first astronaut, meanwhile stated that he had not been able to see it. In response, the <u>European Space Agency</u> (ESA) issued a press release reporting of its visibility from an altitude of 160 and 320 km (100 and 200 mi); ^[74] the image was actually of a river in Beijing. ^[79]





Identical satellite images of a section of the Great Wall in northern Shanxi, running diagonally from lower left to upper right and not to be confused with the more prominent river running from upper left to lower right. In the image on the right, the Great Wall has been outlined in red. The region pictured is $12 \text{ km} \times 12 \text{ km}$ (7 mi \times 7 mi).

<u>Leroy Chiao</u>, a Chinese-American astronaut, took a photograph from the <u>International Space Station</u> that shows the wall. It was so indistinct that the photographer was not certain he had actually captured it. Based on the photograph, the <u>China Daily</u> later reported that the Great Wall can be seen from 'space' with the naked eye, under favorable viewing conditions, if one knows exactly where to look. [80][74]

Gallery



The Great Wall at Badaling



The Great Wall at dawn



The Juyongguan area of the Great Wall accepts numerous tourists each day.



Remains of Beacon tower, near Yumenguan, 2011



"The First Mound" – at $\underline{\text{Jiayu Pass}}$, the western terminus of the Ming wall



The Great Wall near <u>Jiayu Pass</u>, <u>Qilian</u> <u>Mountains</u> in behind



Ming Great Wall remnant, near Yinchuan



The Great Wall remnant at Yulin



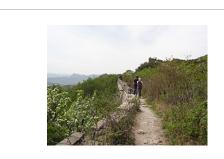
Gateway of Gubeikou Fortress



Environmental protection sign, near Great Wall, 2011



Ming Great Wall at <u>Simatai</u>, overlooking the gorge



Mutianyu Great Wall. This is atop the wall on a section that has not been restored.



The Old Dragon Head, the Great Wall where it meets the sea in the vicinity of Shanhai Pass



Inside the watchtower



Inside a watchtower



Badaling Great Wall during winter



Great Wall in <u>Yanqing</u>, <u>Beijing</u> during winter



Tourists at The Great Wall in <u>Yanqing</u>, Beijing during Spring Festival



Tourists at The Great Wall



A sign discouraging climbing near an unrestored section in Huaibei

See also

- Cheolli Jangseong
- Chinese city wall
- Defense of the Great Wall
- Gates of Alexander
- Grand Canal (China)
- Great Wall of China hoax
- Great Wall Marathon

- Great Wall of Gorgan
- Great Wall of India
- List of World Heritage Sites in China
- Miaojiang Great Wall
- Offa's Dyke
- Roman military frontiers and fortifications
- Zasechnaya cherta

Notes

- a. "At Earth orbit of 100 to 200 miles [160 to 320 km] high, the Great Wall of China is, indeed, visible to the naked eye."
- b. "It's less visible than a lot of other objects. And you have to know where to look."

References

1. "China's Great Wall Found To Measure More Than 20,000 Kilometers" (https://www.bloomberg.com/news/2012-06-05/chinas-great-wall-found-to-measure-more-than-20-000-kilometers.html). Bloomberg. June 5, 2012. Retrieved June 6, 2012.

- 2. "China's Great Wall is 'longer than previously thought' " (https://web.archive.or g/web/20211205123822/https://www.bbc.com/news/world-asia-china-18337039).

 BBC News. June 6, 2012. Archived from the original (https://www.bbc.com/news/world-asia-china-18337039) on December 5, 2021. Retrieved December 28, 2021.
- 3. 中国长城保护报告 (http://www.ncha.gov.cn/art/2016/11/30/art_722_135294.html) [Protection Report of the Great Wall of China]. National Cultural Heritage Administration.
- 4. The New York Times with introduction by Sam Tanenhaus (2011). The New York Times Guide to Essential Knowledge: A Desk Reference for the Curious Mind. St. Martin's Press of Macmillan Publishers. p. 1131. ISBN 978-0-312-64302-7. "Beginning as separate sections of fortification around the 7th century B.C.E and unified during the Qin Dynasty in the 3rd century B.C.E, this wall, built of earth and rubble with a facing of brick or stone, runs from east to west across China for over 4,000 miles."
- 5. "Great Wall of China" (https://www.britanni ca.com/EBchecked/topic/243863/Great-W all-of-China). Encyclopædia Britannica. October 21, 2023. "Large parts of the fortification system date from the 7th through the 4th century BC. In the 3rd century BC Shihuangdi (Qin Shi Huang), the first emperor of a united China (under the Qin dynasty), connected a number of existing defensive walls into a single system. Traditionally, the eastern terminus of the wall was considered to be Shanhai Pass (Shanhaiguan) on the coast of the Bohai (Gulf of Zhili), and the wall's length without its branches and other secondary sections – was thought to extend for some 6,690 km (4,160 mi)."

- Shelach-Lavi, Gideon; Wachtel, Ido; Golan, Dan; Batzorig, Otgonjargal; Amartuvshin, Chunag; Ellenblum, Ronnie; Honeychurch, William (June 2020). "Medieval long-wall construction on the Mongolian Steppe during the eleventh to thirteenth centuries AD" (https://doi.org/10.15184%2Faqy.2020.51). Antiquity. 94 (375): 724–741. doi:10.15184/aqy.2020.51 (https://doi.org/10.15184%2Faqy.2020.51). ISSN 0003-598X (https://search.worldcat.org/issn/0003-598X).
- 7. "Great Wall of China even longer than previously thought" (https://www.cbc.ca/news/world/great-wall-of-china-even-longer-than-previously-thought-1.1263111).

 Canadian Broadcasting Corporation. June 6, 2012. Retrieved June 6, 2012.
- 8. Centre, UNESCO World Heritage. <u>"The Great Wall"</u> (https://whc.unesco.org/en/list/438). *UNESCO World Heritage Centre*. Retrieved January 6, 2025.
- 9. "Great Wall of China" (https://world.new7wonders.com/wonders/great-wall-of-china-220-b-c-and-1368-1644-a-d-china/).

 New7Wonders of the World. August 8, 2016. Retrieved January 6, 2025.
- 10. "Great Wall of China" (http://www.history.com/topics/great-wall-of-china). History. April 20, 2009.
- 11. Waldron 1983, p. 650.
- 12. Baxter, William H. & al. (September 20, 2014). "Baxter–Sagart Old Chinese Reconstruction, Version 1.1" (http://ocbaxtersagart.lsait.lsa.umich.edu/BaxterSagartOCbyMandarinMC2014-09-20.pdf) (PDF). Ann Arbor: University of Michigan. Retrieved January 22, 2015.
- 13. See Lovell 2006, p. 25
- 14. <u>Waldron 1990</u>, p. 202. Tan Daoji's exact quote: "So you would destroy your Great Wall of Ten Thousand *Li*!" (乃復壞汝萬里之長城) Note the use of the <u>particle</u> 之 *zhi* that differentiates the quote from the modern name.
- 15. Byron R. Winborn (1994). Wen Bon: a
 Naval Air Intelligence Officer behind
 Japanese lines in China (https://books.goo
 gle.com/books?id=TD-x0Heq0uEC&pg=PA
 63). University of North Texas Press. p. 63.
 ISBN 978-0-929398-77-8.

- 16. Lindesay, William (2007). The Great Wall Revisited: From the Jade Gate to Old Dragon's Head (https://books.google.com/books?id=Y9p2JgBPMBwC&pg=PA21). Beijing: Wuzhou Publishing. p. 21. ISBN 978-7-5085-1032-3.
- 17. Waldron 1983, p. 651.
- 18. Lovell 2006, p. 15.
- 19. Waldron 1990, p. 49.
- 20. Waldron 1990, p. 21.
- 21. Waldron 1988, p. 69.
- 22. Hessler 2007, p. 59.
- 23. Man, John (2008). "6. WALL-HUNT IN THE GOBI". *The Great Wall: The extraordinary history of China's wonder of the world* (http://www.adlibris.com/se/bok/great-wall-9780553817683).
 TRANSWORLD PUBLISHERS LTD. pp. 132–148. ISBN 9780553817683.
- 24. 歷代王朝修長城 (http://www.chiculture.net/ 1203/html/1203b04_01.html) (in Chinese). Chiculture.net. Retrieved October 24, 2010.
- 25. 古代长城 战争与和平的纽带 (http://www.newsmth.net/bbsanc.php?path=%2Fgroups%2Fsci.faq%2FGeography%2F11%2FGeneral%2FM.1186373252.W0) (in Chinese). Newsmth.net. Retrieved October 24, 2010.
- 26. 万里长城 (http://www.newsmth.net/bbsanc.php?path=%2Fgroups%2Fsci.faq%2FGeography%2F11%2FGeneral%2FM.1186373660.W0) (in Chinese). Newsmth.net. Retrieved October 24, 2010.
- 27. Burbank, Jane; Cooper, Frederick (2010). Empires in World History: Power and the Politics of Difference. Princeton, New Jersey: Princeton University Press. p. 45.
- 28. Slavicek, Mitchell & Matray 2005, p. 35.
- 29. Coonan, Clifford (February 27, 2012).

 "British researcher discovers piece of Great Wall 'marooned outside China' " (htt p://www.irishtimes.com/newspaper/world/2 012/0227/1224312436539.html). *The Irish Times*. Retrieved February 28, 2012.
- 30. Waldron 1983, p. 653.
- 31. Waldron 1983, p. 654; Haw 2006, pp. 52–54.
- 32. Szabó, Dávid & Loczy 2010, p. 220.
- 33. Evans 2006, p. 177.

- 34. "Great Wall at Mutianyu" (https://web.archive.org/web/20130309091217/http://great-wall.org/mutianyu.htm). Great Wall of China. Archived from the original (http://great-wall.org/mutianyu.htm) on March 9, 2013.
- 35. Edmonds 1985, pp. 38-40.
- 36. Lovell 2006, p. 254.
- 37. Elliott 2001, pp. 1–2.
- 38. Elliott, Mark C. "The Limits of Tartary: Manchuria in Imperial and National Geographies". *Journal of Asian Studies* 59, no. 3 (2000): 603–646.
- 39. "Part of the Great Wall of China" (https://ar chive.org/details/wesleyanjuvenil19socigoo g). The Wesleyan Juvenile Offering: A Miscellany of Missionary Information for Young Persons. X: 41 (https://archive.org/details/wesleyanjuvenil19socigoog/page/n51). April 1853. Retrieved February 29, 2016.
- 40. Ruysbroek, Willem van (1900) [1255]. *The Journey of William of Rubruck to the Eastern Parts of the World, 1253–55, as Narrated by Himself, with Two Accounts of the Earlier Journey of John of Pian de Carpine* (https://archive.org/details/journey williamr01ruysgoog). Translated from the Latin by William Woodville Rockhill. London: The Hakluyt Society.
- 41. Haw 2006, pp. 53-54.
- 42. Haw 2006, pp. 54-55.
- 43. *Qur'an*, XVIII: "The Cave". English translations hosted at <u>Wikisource</u> include <u>Maulana Muhammad Ali</u>'s, <u>E.H. Palmer</u>'s, and the <u>Progressive Muslims</u> Organization's.
- 44. Haw 2006, pp. 53-55.
- 45. Barros, João de (1777) [1563]. Ásia de João de Barros: Dos feitos que os portugueses fizeram no descobrimento dos mares e terras do Oriente (http://babe l.hathitrust.org/cgi/pt?id=nyp.33433082328 869;seq=232). Vol. V. Lisbon: Lisboa. 3a Década, pp. 186–204 (originally Vol. II, Ch. vii).
- 46. Waldron 1990, pp. 204-05.
- 47. Lach, Donald F (1965). *Asia in the Making of Europe*. Vol. I. The University of Chicago Press. p. 769.

- 48. Yule 1866, p. 579This section is the report of Góis's travel, as reported by Matteo Ricci in *De Christiana expeditione apud Sinas* (published 1615), annotated by Henry Yule).
- 49. Waldron 1990, pp. 2-4.
- 50. Waldron 1990, p. 206.
- 51. Waldron 1990, p. 209.
- 52. Hessler 2007, p. 60.
- 53. "Great Wall of China 'even longer' " (http://news.bbc.co.uk/2/hi/asia-pacific/8008108.stm). BBC. April 20, 2009. Retrieved April 20, 2009.
- 54. Rojas 2010, p. 140.
- 55. Askhar, Aybek. "Limit placed on number of visitors to Great Wall" (https://www.chinadaily.com.cn/a/201905/29/WS5ceddf96a3104842260be639.html). China Daily. Retrieved August 10, 2020.
- 56. Lindesay 2008, p. 212.
- 57. "Jiaoshan Great Wall" (http://www.travelchi naguide.com/china_great_wall/scene/hebe i/jiaoshan.htm). TravelChinaGuide.com.
 Retrieved September 15, 2010. "Jiaoshan Great Wall is located about 3 km (2 mi) from Shanhaiguan ancient city. It is named after Jiaoshan Mountain, which is the highest peak to the north of Shanhai Pass and also the first mountain the Great Wall climbs up after Shanhai Pass. Therefore Jiaoshan Mountain is noted as "The first mountain of the Great Wall"."
- 58. "Great Wall of China longer than believed as 180 missing miles found" (https://www.theguardian.com/world/2009/apr/20/great-wall-china-discovery). *The Guardian*. Associated Press. April 20, 2009. Retrieved April 18, 2015.
- 59. "Newly-discovered remains redraw path of Great Wall" (https://web.archive.org/web/2 0150418134751/http://usa.chinadaily.com.cn/culture/2015-04/15/content_20441982.htm). China Daily. April 15, 2015. Archived from the original (http://usa.chinadaily.com.cn/culture/2015-04/15/content_20441982.htm) on April 18, 2015. Retrieved April 18, 2015.
- 60. Turnbull 2007, p. 29.

- 61. "Sticky rice porridge and the Great Wall of China" (https://www.world-archaeology.com/world/asia/china/sticky-rice-porridge-and-the-great-wall-of-china/). World Archaeology. July 6, 2010. Retrieved July 6, 2022.
- 62. Boissoneault, Lorraine (February 16, 2017). "Sticky Rice Mortar, the View From Space, and More Fun Facts About China's Great Wall" (https://www.smithsonianmag.com/history/sticky-rice-mortar-view-space-and-more-fun-facts-about-chinas-great-wall-180962197/). Smithsonian. Retrieved July 6, 2022.
- 63. Nanos, Janelle (November 12, 2010).

 "Slide Down the Great Wall of China" (http:
 s://www.nationalgeographic.com/travel/article/slide_down_the_great_wall). National
 Geographic. Retrieved July 6, 2022. "[...]
 (in fact, there have been no bones, human or otherwise, found in the Wall, though a great number of workers did die while toiling to build it)."
- 64. Horsford, Simon (February 17, 2017).

 "Five myths about the Great Wall of China"
 (https://web.archive.org/web/20170220111
 205/http://www.telegraph.co.uk/travel/destinations/asia/china/articles/myths-about-the-great-wall-of-china/). The Telegraph.
 ISSN 0307-1235 (https://search.worldcat.org/issn/0307-1235). Archived from the original (https://www.telegraph.co.uk/travel/destinations/asia/china/articles/myths-about-the-great-wall-of-china/) on February 20, 2017. Retrieved July 6, 2022. "No bones or indeed other indication of human remains have been found in the Wall."
- 65. Ford, Peter (November 30, 2006). New law to keep China's Wall looking great (http://www.csmonitor.com/2006/1130/p07s02-woap.html). Christian Science Monitor, Asia Pacific section. Retrieved March 17, 2007.
- 66. Wong, Edward (June 29, 2015). "China Fears Loss of Great Wall, Brick by Brick" (https://sinosphere.blogs.nytimes.com/201 5/06/29/disappearance-of-chinas-great-wal I-prompts-concerns/). The New York Times. Retrieved July 1, 2015.

- 67. Bruce G. Doar: The Great Wall of China:
 Tangible, Intangible and Destructible. (htt
 p://www.chinaheritagequarterly.org/feature
 s.php?searchterm=001_greatwall.inc&issu
 e=001) China Heritage Newsletter, China
 Heritage Project, Australian National
 University
- 68. "China's Wall becoming less and less Great" (https://www.reuters.com/article/late stCrisis/idUSPEK274699). *Reuters*. August 29, 2007. Retrieved August 30, 2007.
- 69. Ben Westcott; Serenitie Wang (September 21, 2016). "China's Great Wall covered in cement" (http://www.cnn.com/2016/09/21/a sia/great-wall-china-cement-repair/index.ht ml). CNN.
- 70. "China's Great Wall damaged by workers looking for shortcut" (https://www.bbc.com/news/world-asia-china-66714547).
 September 5, 2023 via www.bbc.co.uk.
- 71. "NASA China's Wall Less Great in View from Space" (https://www.nasa.gov/vision/space/workinginspace/great_wall.html). www.nasa.gov. Retrieved June 7, 2021.

- 72. Urban Legends.com website (http://urbanlegends.about.com/b/2003/10/08/whats-visible-from-outer-space.htm) Archived (https://web.archive.org/web/20120303112932/http://urbanlegends.about.com/b/2003/10/08/whats-visible-from-outer-space.htm) March 3, 2012, at the Wayback Machine. Accessed May 12, 2010.
 - "Can you see the Great Wall of China from the moon or outer space? (http://geograph y.about.com/library/faq/blqzgreatwall.htm)
 Archived (https://web.archive.org/web/201 30511044245/http://geography.about.com/library/faq/blqzgreatwall.htm) May 11, 2013, at the Wayback Machine",
 Answers.com. Accessed May 12, 2010.
 Cecil Adams, "Is the Great wall of China the only manmade object byou can see from space? (http://www.straightdope.com/columns/read/417/is-the-great-wall-of-chin a-the-only-manmade-object-you-can-see-from-space)", The Straight Dope. Accessed May 12, 2010.
 - Snopes, "Great wall from space (http://www.snopes.com/science/greatwall.asp)", last updated July 21, 2007. Accessed May 12, 2010.
 - "Is China's Great Wall Visible from Space? (http://www.scientificamerican.com/article.c fm?id=is-chinas-great-wall-visible-from-space)", *Scientific American*, February 21, 2008. "... the wall is only visible from low orbit under a specific set of weather and lighting conditions. And many other structures that are less spectacular from an earthly vantage point—desert roads, for example—appear more prominent from an orbital perspective."
- 73. "Metro Tescos" (https://www.thetimes.com/article/metro-tescos-j850gbmtj69). *The Times*. April 26, 2010.
- 74. López-Gil 2008, pp. 3-4.
- 75. The Family Memoirs of the Rev. William Stukeley (1887) Vol. 3, p. 142. (1754).
- 76. Norman, Henry, *The Peoples and Politics of the Far East*, p. 215. (1895).
- 77. ""The Great Wall of China" (https://web.arc hive.org/web/20110408182924/https://ww w.newscientist.com/blog/space/uploaded_i mages/great-wall-ripleys-775778.jpg), Ripley's Believe It or Not!, 1932.

- 78. "NASA Great Wall of China" (https://www.nasa.gov/vision/space/workinginspace/great_wall.html). Nasa.gov. Retrieved July 31, 2010.
- 79. "People's Daily Online -- ESA admits
 "Great Wal" on satellite photo a mistake" (h
 ttps://web.archive.org/web/202209041553
 12/http://en.people.cn/200405/21/eng2004
 0521_144014.html). Archived from the
 original (http://en.people.cn/200405/21/eng
 20040521_144014.html) on September 4,
 2022. Retrieved September 4, 2022.
- 80. Markus, Francis. (April 19, 2005). Great
 Wall visible in space photo (http://news.bb
 c.co.uk/2/hi/asia-pacific/4459311.stm).
 BBC News, Asia-Pacific section. Retrieved
 March 17, 2007.

Bibliography

- Edmonds, Richard Louis (1985). Northern Frontiers of Qing China and Tokugawa Japan: A Comparative Study of Frontier Policy. University of Chicago, Department of Geography; Research Paper No. 213. ISBN 978-0-89065-118-6.
- Elliott, Mark C. (2001). The Manchu Way: The Eight Banners and Ethnic Identity in Late Imperial China. Stanford University Press. ISBN 978-0-8047-4684-7.
- Evans, Thammy (2006). *Great Wall of China: Beijing & Northern China*. Bradt Travel Guide. Bradt Travel Guides. p. 3. ISBN 978-1-84162-158-6.
- Haw, Stephen G. (2006). *Marco Polo's China: a Venetian in the realm of Khubilai Khan*. Volume 3 of Routledge studies in the early history of Asia. Psychology Press. ISBN 978-0-415-34850-8.
- Hessler, Peter (2007). "Letter from China: Walking the Wall" (http://www.newyorker.com/reporting/2007/05/21/070521fa fact hessler). *The New Yorker*. No. May 21, 2007. pp. 58–67.
- Karnow, Catherine; Mooney, Paul (2008). <u>National Geographic Traveler: Beijing</u> (https://archive.org/details/nationalgeograph0000moon/page/192). National Geographic Books. p. 192 (https://archive.org/details/nationalgeograph0000moon/page/192). ISBN 978-1-4262-0231-5.
- Lindesay, William (2008). <u>The Great Wall Revisited: From the Jade Gate to Old Dragon's Head</u> (https://archive.org/details/greatwallrevisit0000lind). Harvard University Press. ISBN 978-0-674-03149-4.
- López-Gil, Norberto (2008). "Is it Really Possible to See the Great Wall of China from Space with a Naked Eye?" (https://web.archive.org/web/20080910214156/http://www.journalofoptometry.org/Archive/vol1/pdf/02%20Vol1-n1%20Letter%20to%20the%20Editor.pdf) (PDF). *Journal of Optometry*. 1 (1): 3–4. doi:10.3921/joptom.2008.3 (https://doi.org/10.3921%2Fjoptom.2008.3). ISSN 1989-1342 (https://search.worldcat.org/issn/1989-1342). PMC 3972694 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3972694). Archived from the original (http://www.journalofoptometry.org/Archive/vol1/pdf/02%20Vol1-n1%20Letter%20to%20the%20Editor.pdf) (PDF) on September 10, 2008.
- Lovell, Julia (2006). *The Great Wall : China against the world 1000 BC AD 2000*. Sydney: Picador Pan Macmillan. ISBN 978-0-330-42241-3.
- Rojas, Carlos (2010). <u>The Great Wall: a cultural history</u> (https://archive.org/details/isbn_978 0674047877). Cambridge, Massachusetts: Harvard University Press. <u>ISBN</u> 978-0-674-04787-7.
- Slavicek, Louise Chipley; Mitchell, George J.; Matray, James I. (2005). <u>The Great Wall of China</u> (https://archive.org/details/greatwallofchina00loui/page/35). Infobase Publishing. p. 35 (https://archive.org/details/greatwallofchina00loui/page/35). ISBN 978-0-7910-8019-1.

- Szabó, József; Dávid, Lóránt; Loczy, Denes, eds. (2010). Anthropogenic Geomorphology: A Guide to Man-made Landforms. Springer. ISBN 978-90-481-3057-3.
- Turnbull, Stephen R (January 2007). *The Great Wall of China 221 BC-AD 1644*. Osprey Publishing. ISBN 978-1-84603-004-8.
- Waldron, Arthur (1983). "The Problem of The Great Wall of China". Harvard Journal of Asiatic Studies. 43 (2): 643–663. doi:10.2307/2719110 (https://doi.org/10.2307%2F2719110).
 JSTOR 2719110 (https://www.jstor.org/stable/2719110).
- Waldron, Arthur (1988). "The Great Wall Myth: Its Origins and Role in Modern China". <u>The Yale Journal of Criticism.</u> 2 (1): 67–104.
- Waldron, Arthur (1990). The Great Wall of China: from history to myth (https://archive.org/de tails/greatwallofchina00wald). Cambridge England New York: Cambridge University Press. ISBN 978-0-521-42707-4.
- Yule, Sir Henry, ed. (1866). Cathay and the way thither: being a collection of medieval notices of China (https://books.google.com/books?id=KzEMAAAAIAAJ&pg=PA579). Issues 36–37 of Works issued by the Hakluyt Society. Printed for the Hakluyt society.

Further reading

- Arnold, H. J. P., "The Great Wall: Is It or Isn't It?" Astronomy Now, 1995.
- Beckwith, Christopher I. (2009): Empires of the Silk Road: A History of Central Eurasia from the Bronze Age to the Present. Princeton: Princeton University Press. ISBN 978-0-691-13589-2.
- Luo, Zewen, et al. and Baker, David, ed. (1981). *The Great Wall*. Maidenhead: McGraw-Hill Book Company (UK). ISBN 0-07-070745-6
- Man, John. (2008). *The Great Wall*. London: Bantam Press. 335 pages. <u>ISBN</u> <u>978-0-593-</u> 05574-8.
- Michaud, Roland and Sabrina (photographers), & Michel Jan, The Great Wall of China.
 Abbeville Press, 2001. ISBN 0-7892-0736-2
- Schafer, Edward H. (1985). The Golden Peaches of Samarkand. Berkeley: University of California Press. ISBN 978-0-520-05462-2.
- Yamashita, Michael; Lindesay, William (2007). *The Great Wall From Beginning to End.* New York: Sterling. 160 pages. ISBN 978-1-4027-3160-0.

External links

- International Friends of the Great Wall (http://www.friendsofgreatwall.org/) Archived (https://web.archive.org/web/20090217190147/http://friendsofgreatwall.org/) February 17, 2009, at the Wayback Machine organization focused on conservation
- UNESCO World Heritage Centre profile (https://whc.unesco.org/en/list/438)
- Enthusiast/scholar website (https://web.archive.org/web/20170723075744/http://www.thegre atwall.com.cn/) (in Chinese)
- Great Wall of China (https://www.bbc.co.uk/programmes/b00s3h3w) on <u>In Our Time</u> at the BBC
- Photoset of lesser visited areas of the Great Wall (http://www.kuriositas.com/2012/07/the-great-wall-of-china-diverse.html)
- Geographic data related to Great Wall of China (https://www.openstreetmap.org/relation/ 318110) at OpenStreetMap

Retrieved from "https://en.wikipedia.org/w/index.php?title=Great_Wall_of_China&oldid=1275522672"	