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The paths of solar eclipses know no boundary, no state, no province, no country or continent. With two-thirds of the surface of the Earth covered in water, their paths trace repeatedly across water and land as they wind their slender threads to and fro. On 2010 July 11, the path of totality does just that as it passes over the South Pacific, and any land based locations are exceedingly limited. Totality actually begins at sunrise some 3500 km east of Brisbane, Australia, nearly 2000 km northeast of Auckland, New Zealand, and 1100 km southeast of Fiji. So basically, well out into the Pacific Ocean.

**Cook Islands, Tahiti & French Polynesia**

From Mangaia in the Cook Islands, the eclipse begins at sunrise, and a little more than an hour later totality begins with the Sun some 13 degrees above the horizon. Mangaia is the 2nd largest of the Cook Islands, but is still less than 10 km across. It lies about 12 km south of the centerline, but you sacrifice less than 1 second of totality, and here it will last for 3m 19s.

Moorea or Tahiti, in French Polynesia do not actually experience totality, but they receive a very deep partial eclipse of 98.5% to 99.5% from the furthest point to the closest point to the centerline on these two primary islands respectively. Trips scheduled thus far include the locations listed below. Small boats will take individuals from Papeete, and take them to other locations along or near the centerline. Some will observe totality from shipboard, and others will go ashore on small islands and atolls within the eclipse path.
- 3 -

- **Anaa**, French Polynesia – This atoll is nearly 30 km long, so totality on the north end will last for 2m 06s, and on the south end will last for 3m and 06s

- **Tatakoto**, French Polynesia, lies over 1,180 km to the east of Tahiti, and is about 16 km south of the centerline, but in Tumukuru, the eclipse will last 4m 36s, only 3 seconds off the nearest centerline value. This island is only about 14 km long on the east/west axis, paralleling the centerline, so little (0.4s) can be gained by moving to the east side of the island.

**RAPA NUI / ISLA DE PASCUA / EASTER ISLAND**
The Moai sit waiting on Rapa Nui for something special, and the total solar eclipse easily qualifies. Rapa Nui is said to be the most remote inhabited island in the world, but regardless of this fact, likely this will be where many will congregate to observe this unique celestial event. Rapa Nui, Isla de Pascua, Easter Island, or by any other name, is a 31 kilometer wide volcanic protuberance in an expansive ocean, and is an icon of its extreme location.

Rapa Nui is an island that rises 2000 meters from the sea floor and is made up of three main volcanoes, one on each corner of the triangular island. To the northwest, Terevaka comprises much of the island, and rises 507 m above the sea. Puakatike to the east climbs to 370m, and the Rano Kau crater to the southwest is the lowest at over 300 m at the rim. The single strip airport lies just north of Rano Kau, and the town of Hanga Roa lies north of the airport.

Well to the northwest of Rapa Nui is the point of greatest duration for totality of 5m 20s, and not a speck of land to be found. Rapa Nui however is found well within the path of totality, even though it is about 15 km southwest of the centerline. The northern faces of the island allow for as much as 4m 47s of totality, and even on Rano Kau, the point furthest from the centerline, still enjoys as much as 4m 38s of totality.

Moai, the statues that Easter Island is famous for, can be found all over the island; many of them dot the shorelines. The first Moai that were restored more than 50 years ago are located at Anakena Beach, a sand beach that meets the ocean along the northeast shore, and which will likely be a great location for observers. The island, though small, is still large enough for several groups to congregate for the celestial view. Accommodations however are quite limited due to the remoteness of this island. There may, however, be temporary eclipse camps set up for the influx of additional eclipse chasers, but acquiring enough airplanes to get everyone there for the eclipse is another logistical problem. For those that do manage to get to Isla de Pascua, the Moai across the island will make great photo ops in many locations.

As far as weather conditions, there is only a 48% chance of observable conditions, but absolutely no chance of perfectly clear skies, which is rare anywhere across the South Pacific.
CRUISE SHIPS
Since 1970 when cruise ships began eclipse chasing, they have had a unique advantage in being able to relocate its observers from a cloudy location to one with less or no cloudiness, at least within a reasonable distance given the time frames involved. Eclipses wait for no man, or ship. With today’s technological advances, cruise ships often have superior weather stations onboard, and finding a good observing location for the eclipse is easier than ever. Sometimes the only way to get to the period of longest duration is by ship. This is the case for the 2009 and the 2010 total solar eclipses.

The only drawback is that photography is more difficult unless you have a SteadyCam type of mounting to counter the ships rocking. So if you do eclipse photography, you need to stick with the shorter telephoto lenses, as well as shorter duration exposures. Some just sit back and enjoy the show. For 2010, at the location of greatest eclipse, 5m 20s will be visible. Maximum eclipse occurs in a region of the Pacific that has nearly the best weather conditions along the entire eclipse path, and far from any land. I have not yet heard of any cruises heading to this location, but there are cruise ships that will be visiting Tahiti and French Polynesia.

PERITO MORENO GLACIER [NEAR EL CALAFATE, ARGENTINA, PATAGONIA] – 2 M 46 S
Totality could be awesome overlooking the Perito Moreno Glacier, along the northwest corner of Lago Argentino near El Calafate, Argentina. The Sun would however be only 1.9 to 1.6 degrees above the horizon during totality, so hopefully it will be above the mountains, or the glacier itself. The bad news, however, is July in the southern hemisphere is like January in the northern hemisphere, and clouds and bad weather is more prevalent, after all, you are at 50 degrees south latitude, and it is definitely not the tourist season. Climbing may be necessary for a view of the Sun over the mountain peaks.

Map courtesy Fred Espenak and Jay Anderson
Although Jay Anderson includes the upper map shown here in his article on the eclipse weather that immediately follows, I like to match it up with his diagram of Average Cloud Cover, since both cover the Earth in longitude, which gives a good comparison of the conditions. As the eclipse path arcs northward toward the equator, lower probabilities of cloud cover exists as the lower chart indicates, and when the path is further south, the cloud cover increases.

Map & Chart Courtesy Jay Anderson
Total Solar Eclipse – Weather Overview
2010 July 11
Jay Anderson

The 2010 eclipse comes at the depths of the southern hemisphere winter, ordinarily a time of frequent storms and alternating high and low-pressure systems that bring a lot of changeable weather, winds, and cloudiness. Fortunately, latitude comes to the rescue for the first half of the shadow track, as it travels in and north of the belt of high-pressure anticyclones that girdle the Earth at about 30°N (Figure 1). This high-pressure belt is a region where the air descends from higher levels in the atmosphere, warming and drying by adiabatic compression. It is a zone of mostly sunny skies and pleasant temperatures, akin to the Caribbean in the northern hemisphere winter, but it is not without its temperamental weather. Cold fronts from storms in the “Roaring Forties” — latitudes between 40 and 60°S — are able to move into anticyclonic barriers, bringing showery weather and cloudy skies to the eclipse path when they do. Beyond Rapa Nui (Easter Island), the eclipse track dips into the Roaring Forties and cloudiness — at least over the eastern Pacific and the coast of Chile — becomes much heavier.

In addition to passing cold fronts and the impact of the Roaring Forties, there is a semi-permanent feature of southern meteorology known as the South Pacific Convergence Zone (SPCZ). The SPCZ is a band of low-level wind convergence lying over the warmest waters of the southwest Pacific and so, like the Intertropical Convergence Zone (ITCZ) along the equator, is a region of frequent showers and thundershowers along with the associated cloudiness. In July, alas, the SPCZ lies at the northern limit of its annual range, stretching from the Solomon Islands near New Guinea, across Samoa and the Cook Islands. In recent years, perhaps in response to global climate changes, the SPCZ has tended to move north and east, to a position that more directly affects the eclipse track. To avoid the influences of the low-latitude storms and the thunderstorms of the SPCZ, we must head to the north and east – to the extremities of French Polynesia or beyond (Figure 2).
In spite of the weather factors that promote cloudiness along the eastern and western extremities of the eclipse track, the western Pacific is actually in the midst of its seasonal dry spell during July. Closer to the South American coast, just the opposite is true, though at Easter Island, the difference in precipitation between the wet and dry seasons is less pronounced than at Tahiti and the Cook Islands (Figure 3). At the end of the track in Argentina, where winter influences would be expected to bring the most difficult conditions, the Andes Mountains act as a very effective barrier to the Pacific storms and the weather is quite promising instead.

Islands in the Cook Islands and French Polynesia are either mountainous volcanic peaks (Tahiti, Mangaia, and also Easter Island) or low, flat atolls (Tuamotus). The latter are too small and low to affect the flow from the sea, and so the weather observations from those sites reflect the conditions on the water. On the other hand, the mountainous islands impose a considerable orographic modification on wind, cloud and precipitation – generally to increase cloud and rainfall and divert the winds. The humid tropical air is always ready to form clouds if lifted by any of several processes. Large islands are darker than the sea, and warm more readily in the sunlight. Warm air, being buoyant, rises upward, forming clouds at some small distance above the surface. On top of this, winds blowing onto the land are compelled to rise as they encounter the mountainous topography, adding to the impact of the solar heating, and usually cloaking the mountain ridges and peaks with a cap of cloud, especially in the afternoon hours.

The reverse process occurs at night in the case of solar heating, and on the lee side of the terrain in the case of orographic lifting. Winds blow downslope on crossing the highest point of the terrain, and so clouds dissipate and rain ends. The whole process is complicated by the complexities of the topography, but in general, the lee side of the mountains on Mangaia and Easter Island will have a slightly greater tendency to sunny weather. The degree of impact will depend on the height and lie of the terrain, and on both islands the cloud-producing processes will dominate those that dry out the air.
LOCAL WEATHER
COOK ISLANDS

Mangaia, the only Cook Island within the eclipse track, has a latitude that puts it securely within the influence of the SPCZ though the Convergence Zone has a mixed personality, sometimes quiet and barely evident, other times especially active and full of convection and rain. Cold fronts, migrating northward from lower latitudes, reinforce the SPCZ or attend the islands with their own independent weather. It’s easy to be pessimistic about the weather prospects, but the climate statistics for Mangaia give reason for some optimism: July is the driest month at nearby Rarotonga (Figure 3), with an average of about 100 mm of rainfall and Mangaia follows the same pattern. Mangaia’s cloudiness is similar to that of Rarotonga, with an average cloud cover of 64% calculated from the observed frequency of the various cloud categories. Rarotonga reports an average sunshine amount of 52% and it is probably only slightly less than this at Mangaia.

Figure 3: Monthly rainfall charts for stations along the eclipse track. Click on graphic for larger version.

Mangaia Island is 9 km in diameter, rugged, with a modest 170-m peak in its interior. It is mostly tree-covered in its interior and so combines the cloud-producing features of low albedo and a rising topography, though it is modest in these forcings compared to Tahiti. On most days when the SPCZ is weak or distant and the skies are sunny, the afternoon convective clouds are small and confined to the interior. Clouds such as these will dissipate quickly in the cooling that accompanies an eclipse. When more organized weather visits, the small dimensions of the island and limited terrain are unlikely to have much influence, either to reinforce the rainfall on the
windward side or to dissipate the clouds to leeward. Whatever influence the island can muster will be confined to the lowest clouds levels. There is no prevailing wind at Mangaia, but the stronger weather systems tend to come with easterlies and southeasterlies.

On quiet days, rains on Mangaia tend to come in the afternoon after a sunny morning, and may be quite heavy for a brief time. Daylong rains are more unusual, but do occur from time to time. This diurnal pattern favors the eclipse, which occurs in the morning hours, before maximum heating and maximum cloudiness. Winds blowing against Mangaia (on the windy days – one-third of the wind observations are calm) may cause the formation of an arc of cloudiness offshore where the winds converge and are diverted to flow around the island. These arc clouds (much like the bow wave of a boat) will likely remain offshore during an eclipse.

Tahiti and French Polynesia

At Tahiti, July is the second-driest month (Figure 3) and at Hereheretue, in the Tuamotu Islands, July is the driest. While this pattern is similar to that at Rarotonga, the amount of rain in July is about half that in the more southeasterly Cook Islands. The drier weather is reflected in the cloud cover statistics, with average cloudiness dropping to between 44 and 53% across much of Polynesia, a figure 10 to 20% less than in the Cook Islands, in large part due to the reduced influence of the SPCZ. Sunshine statistics are also generous, though somewhat erratic, with very encouraging measurements of 65 to 70% of the maximum possible in most of the islands.

Periods of bad weather are often associated with the passage of cold fronts that arrive from the southwest, sometimes lingering for several days. The stronger fronts have a tendency to stall near the islands and the eclipse track. Even though Tahiti is in the midst of its dry season, a persistent frontal band can drop large amounts of rain for several days in a row. Should one occur on eclipse day, the only escape would be to sail out from under it, most likely by heading eastward down the track.

With only a limited number of places to stay on Mangaia and the atolls of French Polynesia, most southwest Pacific observers will choose to watch this eclipse from shipboard. From a climatological perspective, ships should place themselves as far eastward along the track as schedule permits. This puts the SPCZ well behind and increases the probability that temperate-zone cold fronts will be left behind (Figure 2). Cloud systems tend to become smaller and more disorganized in the more northerly latitudes, and thus easier to avoid when eclipse day arrives. Closer to Tahiti, the SPCZ cloudiness will have to be watched cautiously, though the island typically marks the easternmost extent of its influence.

In satellite imagery, high- and mid-level clouds associated with the SPCZ tend to move from west to east in the upper level flow. Low-level clouds usually move in the opposite direction, but are much more variable and cannot be counted on from one day to the next; frequently they just hang around without seeming to go anywhere. When strong highs pass to the south of the island, the pressure gradient is compressed and stronger than normal easterly trade winds – known as a Mara’umu – can bring winds of 50 km/h and 3-metre seas, sometimes lingering for days or even over several weeks. These enhanced trade winds bring heavy rains to the windward side of Tahiti, but such orographic effects will not be a factor along the eclipse track as there are no islands with a significant topography under the Moon’s path in French Polynesia.
Frontal clouds will come up from the south or southwest, usually in the form of bands that are 100 or 200 km wide. On top of this complicated pattern is the tendency for clouds – especially low-level cloud – to form and dissipate over one- to three-hour periods, making prediction from satellite imagery very difficult. “Chasing” an opening in the clouds may be a frustrating experience and so positioning the ship where climatology is most favorable at the start will make eclipse-day planning a less hectic event. Positions to the northeast along the track will also bring longer eclipse duration. Cyclones should not be a problem, as the hurricane season runs from November to March.

When the SPCZ keeps to the south (its more usual position) and cold fronts are not in the area, westward-moving cloud clusters known as easterly waves may be the only weather feature to watch for. Easterly waves are more-or-less circular areas of convection with varying dimensions, up to 200 km or thereabouts. They may bring heavy overcast or scattered thundershowers, but are readily seen and predicted in satellite images.

A careful watch on the satellite images will show “zones” of descending air where both high and low-level clouds tend to disappear. These zones will not be very distinct, and they will not be completely free of cloud, but once identified, can be counted on for favorable circumstances for a half-day or longer. From the ship’s deck, such areas will have smaller convective clouds (primarily shallow cumulus), and thinner high-level cirrus.

A ship’s mobility will increase the chances of seeing the eclipse by 5% or perhaps a bit more, limited, in large part, because cloud patterns are not easily predicted. The biggest advantage to be given to a shipboard site is the ability to move east of the Tuamotu Islands to tap the best climatology along the track. For those determined to settle on land, the Tuamotus offer a few places with airports in which to settle, including Hao, Hikueru, Tatakoto, and Anaa. Other islands will have to be reached by boat, a prospect that greatly extends the time to travel to and fro (but where better to do it?).

**Tropical Cyclones**

In the southern Pacific, the tropical cyclone season runs from November to April. For regions along the eclipse track, the frequency is relatively low, with about nine storms per year on average across the whole basin east of Australia. While statistics are somewhat fuzzy, the Cook Islands near Rarotonga (including Mangaia) experience one tropical storm every seven years, while in Tahiti they are about half that rate. In el Niño years, cyclones tend to be widespread between 10 and 30° S latitude, from Australia to 130° W, which pretty much covers the whole track through the Cook Islands and Polynesia. In la Niña years, cyclones tend to be fewer in number, forming and traveling much closer to the Australian coast. In any event, the possibility of a tropical cyclone during July is virtually nil.

**Easter Island**

Easter Island (or Rapa Nui as the Polynesians call it) lies on the south side of the anticyclonic belt that circles the Earth at 30 degrees latitude, and as a consequence, is much more exposed to the influence of the westerlies and storms in the Roaring Forties. In July, Easter Island is in its winter wet season (Figure B) and sunshine is at a premium. Still, it’s an exotic destination, and the sunshine statistics show a percent of the maximum possible (50%) that is similar to that at
Rarotonga (and Mangaia) in the Cook Islands (Table 1). The prospect of stunning photographs of the eclipse over the Moai has tremendous appeal.

Easter Island has three large volcanoes and a number of smaller ones, and the cloud on the mountaintops is a persistent feature of the winter weather. The weather is extremely changeable when it is inclined to be cloudy, and there is no percentage in chasing from one site to the other at the last minute to find a sunny haven. There is a strong convective element to the cloud types, even when large weather systems reach the island, and because of this, clouds can form and dissipate within minutes. On sunny days, clouds will tend to form in the afternoon, but will dissipate as the eclipse approaches.

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<th>2010 July 10</th>
<th>Percent of possible sunshine</th>
<th>Percent Frequency of Cloud</th>
<th>July Precipitation (mm)</th>
<th>% obs with rain at eclipse time</th>
<th>% observations with visibility obstruction</th>
<th>Prevailing Wind (%)</th>
<th>Average High</th>
<th>Average Low</th>
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* = station is under the umbra track

Table 1: Climate statistics for stations along the eclipse track. Click on the graphic to display a larger version.

Given the nature of the cloudiness described above, there are still a few tricks to help pick a successful eclipse site. Don't go uphill unless the day is spectacularly sunny (and it happens). Especially, don't locate on the upwind side of a volcanic hill. Coastal sites exposed to the wind may have a little less cloudiness if the wind is not too strong, as the cooler air from the sea will suppress the immediate formation of cloud as it reaches land. Sites in the lee of the larger volcanoes may be a little sunnier if the weather is not too thick, but usually the clouds will form on the slopes and blow downwind; the flanks of the larger peaks may be a safer site. There is no strong prevailing wind – they can come from any quarter according to the weather of the day. After a day or two on Easter Island, you'll notice that the skies offshore - away from the influence of the land - seem to be sunnier. It is sunnier out there, because the water is cooler than the land and the clouds don't build as strongly as over the warmer island.

The secret to capturing a little of the offshore sunshine is to pick a site along the coast where the breezes blow onshore. Given all of the complexities of the wind and weather, the south coast seems like the safest bet, perhaps at Tongariki in a south wind, where the Moai offer great visual appeal. With easterly or westerly winds, the village at Hanga Roa is promising, and southerlies or northerlies will carry cloud from the peaks of Terrevaka or Rana Kao just past the town. Northerlies at Tongariki will have a slight downslope flow, which tends to dry the air out a bit, but the volcano Pakaiki lies just to the east and flow from its peak will have to be watched.
carefully. The beach at Anakena is promising under a northerly onshore flow, and may be one of the best sites for a large group because of the facilities available there.

Unless there is a large and active weather system over the island on eclipse day, there will certainly be mixtures of sunny and cloud that will make site selection very complex. If you are mobile, wait until the last moment so that you can assess the character of the cloud and wind before picking your site. Remember, there is only one road and travel does not proceed quickly on Rapa Nui.

South America
The Chilean Archipelago, while imbibed with towering forested slopes that fall into dark mysterious water, is also exposed to the full force of the westerlies and nearly devoid of community, thus making for a poor or impossible eclipse site. Once across the Andes however, and into Argentina, the weather improves significantly and the eclipse comes to its sunset ending near the resort town of El Calafate. The Andes block the flow of the westerlies, stripping them of their moisture and clouds, and leaving a drier and sunnier airflow to descend onto the plains of southern Argentina. No sunshine data are available for Argentina, but cloud-cover statistics (Table 1) show an encouraging average cloudiness for July at El Calafate of 55%. While about 10% higher than Tahiti, the data are similar to values in the Cook Islands and parts of Polynesia.

The winter season brings cool temperatures, though nothing like the winters in the northern hemisphere. Average highs reach 6°C and average lows descend to a chilly (for the southern hemisphere) -5°C.

Because the sun is close to setting during the eclipse, sight lines will have to be carefully arranged to avoid the distant mountains. That will be a tough challenge, as the eclipsed Sun is only 1° above the horizon, though the presence of several lakes aligned toward the west and northwest will help. The long view through the atmosphere will increase the probability that even a small amount of cloudiness will block the magic moment.

Summary
French Polynesia is the clear-cut choice for the best weather prospects, but land-based sites are scarce and most observers will opt for a shipboard solar romance. Mangaia and Easter Island are the largest islands in the track, with more-or-less the same chances of sunshine – about 50%. If your photography or stomach dictates solid ground under your feet, then one of these or the few reachable islands in the Tuamotus will have to do. Easter Island has by far the most developed infrastructure and the most convenient travel, but the small French Polynesian atolls offer the best weather, for the more adventurous. Easter Island, of course, has that aura of mystery that will more than compensate for the limited weather prospects.

Argentina is not a good choice if the eclipse alone is your goal. The very low altitude of the Sun, mountain-toothed horizon, and modest chances of sunshine suggest that more tropical destinations would be better.

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Now Booking: 2009 Total Solar Eclipse

This eclipse may be the biggest eclipse event of the century as it will be the longest totality of the century. The longest it can possibly last is 6m 38.9s in an area of ocean where little land exists. I reviewed all of the eclipse web sites from Issue 7 of TOTALITY!, and have found numerous changes that had been made, and even tour package ID’s reassigned, and in some cases tours were cancelled. There are also several new sites that I have come across, and hope you will take the time to find the best tour that fits your needs. There is no way I can list every eclipse trip that exists, but contained here in the next 14 pages are 52 tour groups listing 119 separate tour packages that I have come across with a Google search.

The following groups are listed as they have posted their itinerites;

**A Bridge to China**
Eclipse Guide > Dr. Douglas Duncan
http://www.abridgetochina.net/Home/A+Bridge+to+China+Home/default.aspx
Total Solar Eclipse 2009 > 11 day tour
  JUL 13 to JUL 23 > TOTALITY 5m 53s from in Jiaxing
  $3195.USD ex. Arrive Beijing, leave Shanghai
  http://casa.colorado.edu/~dduncan/eclipse/Ad4.pdf &

**A Classic Tours Collection**
http://aclassictour.com
Eclipse Guides > Prof. Jay Pasachoff & Mark Sodd
China Total Solar Eclipse 2009 > 19 day tour < NEW LISTING!
  JUL 19 to AUG 06 > TOTALITY 5m 36s from in Hangzhou
  $3999.USD (with a minimum of 10 participants), arrive Seoul, leave Beijing
  http://aclassictour.com/solareclipse.tours.4.html
  Extensions available for;  4 Days in Shanghai & Suzhou
  5 Days in Beijing,
  7 Days in Beijing & Xi’an,

**Adventure Bhutan**
http://www.duyul.com/
Total Solar Eclipse Tour > 7 day tour
  JUL 19 to JUL 25 > TOTALITY viewed from Punakha, Bhutan
  $1460.USD ex. Bangkok

**Ancient World Tours (UK) < NEW LISTINGS!**
http://www.ancient.co.uk/home.aspx
China Total Solar Eclipse Tour A > 9 or 12 Day Tour
Eclipse Guide > Sheridan Williams
  JUL 19 to JUL 27 > TOTALITY near Wuhan
  £1716.GBP, arrive Shanghai, depart Beijing. £2635.GBP ex London, Heathrow Airport
  http://www.ancient.co.uk/AWSY190709.aspx
  Extension available for;  4 Days to Xi’an & Beijing
China Total Solar Eclipse Tour B > 5 Day Tour
   Eclipse Guide > TBA
   JUL 20 to JUL 24 > TOTALITY viewed from Shanghai
   £921.GBP ex Shanghai, £1840.GBP ex London, Heathrow Airport
   http://www.ancient.co.uk/AWSY190709.aspx

Astronomical Tours
China Total Solar Eclipse Tour > 9 day tour
   JUL 20 to JUL 28 > 5m 39s TOTALITY near Jiaxing
   $2795.USD arrive Shanghai / depart Beijing
Brief Fiji & Kiribati Total Solar Eclipse Tour 2009 > 4 day tour
   JUL 20 to JUL 23 > 4m 48s TOTALITY near the Butaritari airstrip
   $2895.USD ex Nadi
Extensions available for:
   3 nights in Raddison Resort, Denarau Island, Fiji (Post Tour)
   4 nights at Castaway Island Resort, Fiji (Post Tour)
Fun Fiji and Kiribati Total Solar Eclipse Tour 2009 > 11 day tour
   JUL 18 to JUL 26 > 4m 48s TOTALITY near the Butaritari airstrip
   $4925.USD ex Nadi ($850.USD RT airfare from LAX available, leaving JUL 16)

Astronomy Vacations
http://www.astronomyvacations.com/ClassicalItinerary.html
2009 Eclipse Cruise > 11 day tour
   JUL 16 to JUL 29 > TOTALITY nearly 6m 39s target location: 24° 12.2’ North and 144° 07.0 East
   aboard the cruise ship Costa Classica, a 722’/1300 passenger vessel
   Starting at $2052.USD, ex Beijing
   Extensions available for:
   2 days in Tokyo, Japan
   2 days in Kyoto & Osaka, Japan
   4 days in Beijing, China (pre or post tours)
   6 days in Shanghai & Beijing, China (pre or post tours)
   7 days in Shanghai, Xi’an, and Beijing, China (pre or post tours)

Bestways Tours & Safaris
http://www.bestway.com/index.html
Total Solar Eclipse in Wuhan, China - 2009 > 8 day tour
   Eclipse Guide > Dr. Ralph Chou
   JUL 15 to JUL 26 > TOTALITY viewed near Wuhan
   $2095.USD, arrive Beijing, depart Shanghai
   http://www.bestway.com/itineraries/t170.php

British Deaf Astronomers Association
http://www.deafastronomers.co.uk/
Dragon’s Eye Tour 2009 > 8 day tour
   JUL 17 to JUL 24 > TOTALITY nearly 6m near Suzhou
   £1135.GBP ex London, Heathrow Airport
   http://www.deafastronomers.co.uk/chinaeclipse.htm
China Highlights < NEW LISTINGS!
http://www.chinahighlights.com/deals/solar-eclipse.htm/

2009 Total Solar Eclipse in Astronomical Observatory > 3 day tour
JUL 21 to JUL 22 > TOTALITY of about 5m from Sheshan Observatory
$299.USD ex Shanghai
http://www.chinahighlights.com/tour/shanghaitour/sh-3a/

2009 Total Solar Eclipse and Magnificent Qiantang Tide > 6 day tour
JUL 18 to JUL 23 > TOTALITY about 5m near Haining
$654.USD ex Shanghai
http://www.chinahighlights.com/tour/cht-105a/

2009 Total Solar Eclipse with Amazing Cities > 15 day tour
JUL 9 to JUL 23 > TOTALITY about 5m near Haining
$2301.USD , arrive Beijing, depart Shanghai
http://www.chinahighlights.com/tour/cht-62b/

2009 Total Solar Eclipse and Qiantang Tide Watching Tour > 11 day tour
JUL 13 to JUL 23 > TOTALITY nearly 6m near Hangzhou
$1680.USD, arrive Beijing, depart Shanghai
http://www.chinahighlights.com/tour/cht-1f/

China Travel Solutions < NEW LISTINGS!
http://www.chinatravelsolution.com/eclipse/

2009 Solar Eclipse Tour in Sheshan (Shanghai) > 3 day tour
JUL 20 to JUL 22 > TOTALITY from Tianhuangping Reservoir Hangzhou
$310.USD ex Shanghai
http://www.chinatravelsolution.com/citybreak/itinerary.jsp?routeID=705

2009 Solar Eclipse Tour in Anji (Hangzhou) > 5 day tour
JUL 20 to JUL 24 > TOTALITY of about 5m from Sheshan Observatory
$435.USD ex Shanghai
http://www.chinatravelsolution.com/citybreak/itinerary.jsp?routeID=706

Best of 2009 China with Eclipse in Sheshan > 9 day tour
JUL 15 to JUL 23 > TOTALITY of about 5m from Sheshan Observatory
$1140.USD, arrive Beijing, depart Shanghai
http://www.chinatravelsolution.com/tour/travelitinerary_707

2009 China Highlights with Eclipse in Anji > 9 day tour
JUL 15 to JUL 23 > TOTALITY from Tianhuangping Reservoir Hangzhou
$1170.USD , arrive Beijing, depart Shanghai
http://www.chinatravelsolution.com/tour/travelitinerary_709

Dao of Well Being Tours
Qigong Total Solar Eclipse China 2009
http://www.qigongchinatrip.com/index.htm
http://www.qigongchinatrip.com/solarEclipse2009Tour.htm
e-mail request to rebecca@qigongchinatrip.com for more info
Eclipse of the Century
http://www.eclipseofthecentury.com/
Total Solar Eclipse 2009 > 11 day tour
Eclipse Guide > Dr. Pamela Gay
  JUL 16 to JUL 24 > TOTALITY of 6m 21s about at 130E, 29.25N, S of Japan
  aboard the cruise ship Costa Allegra
  Starting at £1325.GBP + Insurance, ex Taipei

Eclipse City, Ltd. < NEW LISTINGS!
Itinerary 1A – E-Day Tour from Shanghai > 1 day tour
  JUL 22 > TOTALITY of 5m 57s from Yangshan Island
  €189.EURO ex Shanghai (no hotel included)
  http://xjubier.free.fr/eclipse-city_tours/Total_Solar_Eclipse_2009_Tours.html?Program=1
Itinerary 1B – 2 Day Tour from Shanghai > 2 day tour
  JUL 21 to JUL 22 > TOTALITY of 5m 57s from Yangshan Island
  €399.EURO ex Shanghai
  http://xjubier.free.fr/eclipse-city_tours/Total_Solar_Eclipse_2009_Tours.html?Program=1
Extensions available for;
  10 days in Tibet > Itinerary 1E (JUL 11 to JUL 20) (pre tour)
  11 days in Tibet > Itinerary 1F (JUL 22 to AUG 01) (post tour)
Itinerary 1C – 3 Day Tour from Shanghai > 3 day tour
  JUL 21 to JUL 22 > TOTALITY of 5m 57s from Yangshan Island
  €499.EURO ex Shanghai
  http://xjubier.free.fr/eclipse-city_tours/Total_Solar_Eclipse_2009_Tours.html?Program=1
Extensions available for;
  10 days in Tibet > Itinerary 1E (JUL 11 to JUL 20) (pre tour)
  11 days in Tibet > Itinerary 1F (JUL 22 to AUG 01) (post tour)
Itinerary 2A – Iwo Jima > 3 Day Tour from Tokyo (currently wait-listed pending authorization)
  JUL 21 to JUL 23 > TOTALITY over 5m from Iwo Jima
  €3999.EURO ex Tokyo
Itinerary 2B – Iwo Jima > 3 Day Tour from Agana, Guam (currently wait-listed pending authorization)
  JUL 21 to JUL 23 > TOTALITY over 5m from Iwo Jima
  €3999.EURO ex Agana, Guam
Itinerary 2C – Iwo Jima > 3 Day Tour from Agana, Guam (currently wait-listed pending authorization)
  JUL 19 to JUL 23 > TOTALITY over 5m from Iwo Jima
  €4290.EURO ex Agana, Guam
Itinerary 3 – Marshall Islands > 15 Day Tour from Majuro < COMPLETELY BOOKED
  JUL 11 to JUL 25 > TOTALITY 5m 41s from Enewetak Atoll
  €14,900.EURO ex Agana, Guam

Eclipse Traveler < NEW LISTINGS!
http://www.eclipsetraveler.com/
Eclipse with Yangtze River Cruise > 15 day tour
  JUL 17 to JUL 31 > TOTALITY of 5m 11.8s aboard the MS Yangtze 1
  $4095.USD, arrive Beijing / depart Shanghai, $5475.USD from JFK, $5365.USD from LAX or SFO
Eclipse Tour & Hangzhou > 8 day tour
JUL 17 to JUL 24 > TOTALITY of 5m 50.0s from Hangzhou
$1612.USD ex Shanghai, $2992.USD from JFK, $2882.USD from LAX
http://www.eclipsetraveler.com/tours/solar_eclipse_tour_with_hangzhou.htm

Eclipse Tour & Mt. Emei > 14 day tour
JUL 12 to JUL 25 > TOTALITY from the summit of Mt. Emei
$3295.USD ex Shanghai, $4675.USD from JFK, $4565.USD from LAX & SFO
http://www.eclipsetraveler.com/tours/solar_eclipse_tour_with_hangzhou.htm

Discover China & Solar Eclipse < COMPLETELY BOOKED

Explore! (UK)
http://www.explore.co.uk/
China Discovery & Eclipse 2009 > 13 / 14 Day Tour
Eclipse Guide > Prof. Paul Murdin
JUL 12 to JUL 23 > TOTALITY nearly 6m near Anji
£1645.GBP, arrive Hong Kong / depart Shanghai / £2445.GBP RT from London Heathrow
$3590.USD, arrive Hong Kong / depart Shanghai
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SCE7&BrochureCode=EWW2009

Cultural Treasures & Eclipse 2009 > 09 / 10 Day Tour
Eclipse Guide > Dr. Francisco Diego
JUL 14 to JUL 27 > TOTALITY nearly 6m near Anji
£1249.GBP, arrive Beijing / depart Shanghai / £1849.GBP RT from London Heathrow
$2840.USD, arrive Beijing / depart Shanghai

Encounter Japan & Eclipse 2009 > 13 / 14 Day Tour
JUL 17 to JUL 30 > TOTALITY on Yakushima Island 3m to 4m depending on location on the island
£2612.GBP, ex Tokyo / £3218.GBP RT from London Heathrow
$5460.USD, ex Tokyo

Family China & Eclipse 2009 > 17 / 18 Day Tour < NEW LISTING!
JUL 17 to JUL 30 > TOTALITY on Yakushima Island 3m to 4m depending on location on the island
£1587.GBP, arrive Shanghai / depart Beijing / £2043.GBP RT from London Heathrow
$3320.USD, arrive Shanghai / depart Beijing
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SFCE5&BrochureCode=FAM2009

Imperial China & Eclipse 2009 > 18 / 19 Day Tour
JUL 19 to AUG 06 > TOTALITY from Shanghai of nearly 6m
£1345.GBP arrive Shanghai / depart Beijing / £1945.GBP RT from London Heathrow
$3090.USD, arrive Shanghai / depart Beijing

Poetic China & Eclipse 2009 > 10 / 11 Day Tour
JUL 19 to JUL 29 > TOTALITY from Suzhou of nearly 6m
£899.GBP, ex Shanghai / £1549.GBP RT from London Heathrow
$2040.USD, ex Shanghai

Shanghai to Hong Kong & Eclipse 2009 > 12 / 13 Day Tour
JUL 19 to JUL 31 > TOTALITY from Coastal Shanghai of nearly 6m
£1645.GBP, arrive Shanghai / depart Hong Kong / £2445.GBP RT from London Heathrow
$3650.USD, arrive Shanghai / depart Hong Kong
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SCE8&BrochureCode=EWW2009
Shanghai, Suzhou & Eclipse 2009 > 5 / 6 Day Tour
JUL 19 to JUL 24 > TOTALITY from Anji of nearly 6m
£549.GBP ex Shanghai / £1199.GBP RT from London Heathrow
$1210.USD ex Shanghai

Shogun Trail & Eclipse 2009 > 13 / 14 Day Tour
JUL 11 to JUL 24 > TOTALITY from Yakushimi of nearly 3m to 4m
£2249.GBP ex Tokyo / £2749.GBP RT from London Heathrow
$5500.USD ex Tokyo
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SJE1&BrochureCode=EWW2009

Silk Road Odyssey & Eclipse 2009 > 26 / 27 Day Tour
JUN 30 to JUL 26 > TOTALITY from Shanghai of nearly 6m
£2414.GBP, arrive Tashkent, Uzbekistan / depart Beijing / £3098.GBP RT from London Heathrow
$5050.USD, arrive Tashkent, Uzbekistan / depart Beijing
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SCE1&BrochureCode=EWW2009

Taste of China & Eclipse 2009 > 9 / 10 Day Tour
JUL 15 to JUL 24 > TOTALITY from Shanghai of nearly 6m
£1024.GBP, arrive Beijing / depart Shanghai / £1599.GBP RT from London Heathrow
$2140.USD, arrive Beijing / depart Shanghai
http://www.explore.co.uk/Prices+and+Booking.htm?TourCode=SCE12&BrochureCode=EWW2009

Tibetan Journey & Eclipse 2009 > 19 / 20 Day Tour < NEW LISTING!
JUL 05 to JUL 23 > TOTALITY from Shanghai of nearly 6m
£1901.GBP, arrive Beijing / depart Shanghai / £2295.GBP RT from London Heathrow
$3970.USD, arrive Beijing / depart Shanghai
http://www.explore.co.uk/Tour+Detail+Page.htm?TourCode=SCE3&BrochureCode=EWW2009

Trans Siberian & Eclipse 2009 > 23 / 24 Day Tour < NEW LISTING!
JUL 01 to JUL 23 > TOTALITY from Shanghai of nearly 6m
£2927.GBP, arrive Moscow, Russia / depart Shanghai, China / £3397.GBP RT from London Heathrow
$6120.USD, arrive Moscow, Russia / depart Shanghai, China

Warriors. Great Wall & Eclipse 2009 > 9 / 10 Day Tour < NEW LISTING!
JUL 19 to JUL 24 > TOTALITY from Shanghai of nearly 6m
£1061.GBP, arrive Shanghai / depart Beijing / £1648.GBP RT from London Heathrow
$2220.USD, arrive Shanghai / depart Beijing

Yangtse, Yangshuo & Eclipse 2009 > 17 / 18 Day Tour < NEW LISTING!
JUL 07 to JUL 23 > TOTALITY from Shanghai of nearly 6m
£1665.GBP, arrive Hong Kong / depart Shanghai / £2299.GBP RT from London Heathrow
$3480.USD, arrive Hong Kong / depart Shanghai

Explorers Eclipse Tours (UK)
http://www.explorerseclipse.co.uk/

Standard Itinerary > 9 Day Tour
JUL 18 to JUL 26 > TOTALITY from Hangzhou
£1000.GBP ex Shanghai, £1530.GBP RT from London
http://www.explorerseclipse.co.uk/StandardItinerary.aspx
China Highlights > 14 Day Tour
JUL 12 to JUL 25 > TOTALITY from Hangzhou
£1610.GBP, arrive Beijing, depart Shanghai, £2150.GBP RT from London
http://www.explorerseclipse.co.uk/HighlightChina.aspx

China & Tibet > 14 Day Tour
JUL 17 to JUL 30 > TOTALITY from Hangzhou
£2175.GBP arrive Shanghai, depart Beijing, £2725.GBP RT from London
http://www.explorerseclipse.co.uk/HighlightChina.aspx

Shanghai & Hong Kong > 10 Day Tour
JUL 17 to JUL 26 > TOTALITY from Hangzhou
£1250.GBP, arrive Shanghai, depart Hong Kong, £1785.GBP RT from London
http://www.explorerseclipse.co.uk/ShanghaiHongKong.aspx

Shanghai & Indochina > 15 Day Tour
JUL 17 to JUL 31 > TOTALITY from Hangzhou
£1855.GBP, arrive Shanghai, depart Bangkok, Thailand, £2399.GBP RT from London
http://www.explorerseclipse.co.uk/ShanghaiIndoChina.aspx

Shanghai & Thai Beaches > 14 Day Tour
JUL 17 to JUL 30 > TOTALITY from Hangzhou
£1575.GBP, arrive Shanghai, depart Bangkok, Thailand, £2115.GBP RT from London
http://www.explorerseclipse.co.uk/ShanghaiThaiBeaches.aspx

Focus on Nature Tours (FONT)
Birding in the Summer – Southern Japan > 15 Day Tour
JUL 12 to JUL 26 > up to 3m 46s TOTALITY on Amami-Oshima
$2795.USD ex arrive Okinawa / depart Osaka

Harvard Museum of Natural History Travel Program
Total Solar Eclipse Cruise and Exploration of Japan > 17 Day Tour
Eclipse Guides > Dr. Mark Van Baalen, Dr. Edward Bertschinger & Prof. Edwin Turner
JUL 15 to JUL 31 > up to 6m 39s TOTALITY aboard the Costa Classica cruise ship
$9895.USD ex arrive Beijing, China / depart Kyoto, Japan
http://www.hmnh.harvard.edu/travel/t_asia_japan_eclipse.htm

Houston Museum of Natural Science
thru Easton Resource Development, Inc.
Total Solar Eclipse Trip to China 2009 > 14 Day Tour
Eclipse Guide > Dr. Carolyn Sumners
JUL 10 to JUL 23 > TOTALITY from or near ShaoXing
$3397.USD arrive Beijing / depart Shanghai

Jasmine's China Adventure Tours
Dragon River Eclipse Tour
Option 1 > 21 Day Tour
JUL 12 to AUG 01 > nearly 6m TOTALITY
$4750.USD ex Beijing
http://www.jasminechina.com/ecl2009.htm#option1
Option 2 > 21 Day Tour
JUL 12 to AUG 01 > nearly 6m TOTALITY
$4350.USD ex Beijing
http://www.jasminechina.com/ecl2009.htm#option2

Option 3 > 16 Day Tour
JUL 17 to AUG 01 > nearly 6m TOTALITY
$3950.USD ex Shanghai
http://www.jasminechina.com/ecl2009.htm#option3

Option 4 > 16 Day Tour
JUL 17 to AUG 01 > nearly 6m TOTALITY
$3550.USD ex Shanghai
http://www.jasminechina.com/ecl2009.htm#option4

Option 5 > 8 Day Tour
JUL 17 to JUL 24 > nearly 6m TOTALITY
$1900.USD ex Shanghai
http://www.jasminechina.com/ecl2009.htm#option1

Journey’s International, Inc.
China Solar Eclipse 2009 > 7 Day Tour
JUL 18 to JUL 24 > nearly 6m of TOTALITY from Shanghai
$2990.USD ex Shanghai
http://www.journeys.travel/destinations/asia/china/754/

India Solar Eclipse > 10 Day Tour
JUL 13 to JUL 22 > TOTALITY near Varanasi
$2995.USD ex Delhi

Laurus Travel
http://www.laurustravel.com/
Total Solar Eclipse China Tour > 11 Day Tour
JUL 16 to JUL 26 > nearly 6m TOTALITY from Hangzhou
$2395.USD, arrive Shanghai, depart Beijing

Total Solar Eclipse Tour with Yangtze Cruise > 17 Day Tour
JUL 16 to AUG 01 > nearly 6m TOTALITY from Hangzhou
$3250.USD, arrive Shanghai, depart Beijing

Let’s Travel China < NEW LISTING!
http://www.letstravelchina.com/
2009 Total Solar Eclipse on Mt. Emei > 14 Day Tour
JUL 16 to JUL 26 > TOTALITY viewed from Mt. Emei
$3880.USD, arrive Beijing, depart Shanghai, $4830.USD from LAX

Mandarin World Travel (MWT) < NEW LISTING!
2009 Total Solar Eclipse on Mt. Emei > 9 Day Tour
JUL 17 to JUL 25 > TOTALITY viewed from Mt. Emei
$3195.AUD ex Singapore, or $3995.AUD from BNE, SYD, MEL, PER (Includes Airfare)
Melita Trips
http://www.melitatrips.com/
Grand Yangtze River Cruise aboard the Victoria Prince > 14 Day Tour
   JUL 13 to JUL 26 > nearly 5m+ TOTALITY from Three Gorges Dam
   Request brochure for pricing, arrive Beijing, depart Shanghai
   http://www.melitatrips.com/china/index.html
   Extensions available for:  
      1 night in Shanghai (post tour)
      2 nights in Hong Kong (post tour)
      2 nights in Shanghai (post tour)
      6 nights in Thailand & Cambodia (post tour)

Mountain Adventures < NEW LISTING!
http://www.mount ainadventures.com/
China Total Solar Eclipse – July 2009 > 15 Day Tour
   5m 50s TOTALITY near Hangzhou
   http://www.mountainadventures.com/mountain%20adventures_031.htm
   e-mail: mtnadv@nets het.net for details and prices
   Extensions available for:  10 days – Discover Yunnan Tour

MWT Associates, Inc.
http://www.melitatrips.com/
Grand Yangtze River Cruise > 14 Day Tour
   JUL 13 to JUL 26 > 5m+ TOTALITY from Three Gorges Dam region on the Yangtze
   Request a brochure to receive a price list > http://www.melitatrips.com/brochure_request_china.html
   DOES include round trip airfare from major US gateways
   http://www.melitatrips.com/china/index.html

NEI (UK), Ltd. < NEW LISTING!
http://www.neiuk.co.uk/
Total Solar Eclipse Tour - India 2009 > 8 Day Tour
   JUL 19 to JUL 26 > TOTALITY from the Ganges River SE of Varanasi
   Price Not Listed, ex Delhi
   http://www.neiuk.co.uk/Solar_Eclipse_India_2009.html
   e-mail: -enquiries@neiuk.co.uk

On the Go Tours < NEW LISTINGS!
http://www.onthegotours.com/
Eclipse on Shanghai > 5 Day Tour
   JUL 19 to JUL 23 > 5m 00s TOTALITY on the beach in S. Shanghai overlooking the East China Sea
   $949.USD, ex Shanghai
   http://www.onthegotours.com/Eclipse-on-Shanghai
Eclipse on Bhutan > 7 Day Tour
   JUL 19 to JUL 25 > 5.52m TOTALITY from Trongsa, Bhutan
   $3229.USD, ex Kolkata, India
   http://www.onthegotours.com/Eclipse-on-Bhutan
Eclipse in Darjeeling > 8 Day Tour
   JUL 18 to JUL 25 > 2.56m TOTALITY from Darjeeling, India
   $2499.USD, ex Kolkata, India
   http://www.onthegotours.com/Eclipse-in-Darjeeling
Golden Triangle & Eclipse > 9 Day Tour
JUL 16 to JUL 24 > 3.02m TOTALITY from Varanasi, India
$1379.USD, ex Delhi, India

Great Wall and Warriors Eclipse > 9 Day Tour
JUL 14 to JUL 22 > 5m 00s TOTALITY on the beach in S. Shanghai overlooking the East China Sea
$1829.USD, arrive Beijing, depart Shanghai
http://www.onthegotours.com/Eclipse-Great-Wall-and-Warrior

Yangtze Eclipse & Cruise > 10 Day Tour
JUL 19 to JUL 28 > 4m to 5m TOTALITY and viewed from the Yangtze River
$2499.USD, ex Shanghai
http://www.onthegotours.com/Yangtze-Eclipse-and-Cruise-Itinerary

Deserts, Places & Varanasi > 13 Day Tour
JUL 12 to JUL 24 > 3.02m TOTALITY from Varanasi, India
$2349.USD, ex Shanghai

Yin & Yangtze Eclipse > 15 Day Tour
JUL 14 to JUL 28 > 4m to 5m TOTALITY and viewed from the Yangtze River
$2949.USD, arrive Beijing, depart Shanghai

Oriental Travel
http://www.orientaltravel.co.uk/

China Solar Eclipse Tour 5 days
JUL 19 to JUL 23 – up to 5m 56s TOTALITY near Shanghai
£730.GBP or $1290.USD ex Shanghai
http://solar-eclipse.orientaltravel.co.uk/5days.html

China Solar Eclipse Tour 10 days
JUL 14 to JUL 23 – up to 5m 56s TOTALITY near Shanghai
£1450.GBP or $2565.USD ex arrive Beijing / depart Shanghai
http://solar-eclipse.orientaltravel.co.uk/10days.html

China Solar Eclipse Tour 13 days
JUL 11 to JUL 23 – up to 5m 56s TOTALITY near Shanghai
from £2095.GBP or $3710.USD ex arrive Beijing / depart Shanghai
(4 star accommodations booked, prices listed are for the 5 star accommodations that are still available)
http://solar-eclipse.orientaltravel.co.uk/13days.html

Essential China Eclipse Tour 16 days < NEW LISTING!
JUL 19 to AUG 03 – up to 5m 56s TOTALITY near Shanghai
£1890.GBP or $3345.USD arrive Shanghai, depart Beijing
http://solar-eclipse.orientaltravel.co.uk/16days.html

Grand China Eclipse Tour 19 days < NEW LISTING!
JUL 06 to JUL 24 – up to 5m 56s TOTALITY near Shanghai
£2340.GBP or $4140.USD arrive Beijing, depart Shanghai
http://solar-eclipse.orientaltravel.co.uk/19days.html
Classic China Eclipse Tour 14 days < NEW LISTING!
JUL 13 to JUL 26 – up to 5m 56s TOTALITY near Shanghai
£1860.GBP or $3290.USD arrive Beijing / depart Shanghai
http://solar-eclipse.orientaltravel.co.uk/14days.html
Extensions available for: 2 days in Hangzhou (JUL 22 to JUL 25)
3 days – Sanya Sun & Beach (JUL 22 to JUL 26)
3 days in Hong Kong (JUL 22 to JUL 25)
Hangzhou & Hong Kong
Sanya & Hong Kong

People’s Travel< NEW LISTING!
http://www.peoples.travel/index.shtml
Shanghai Solar Eclipse 2009 – 7 day trip
JUL 17 to JUL 23 > nearly 6m TOTALITY from Shanghai
£1130.GBP ex Shanghai
http://www.peoples.travel/Solareclipse-Shanghai.shtml

Philworld Travel Resources
http://philworldtravel.com/default.aspx
2009 Total Solar Eclipse Program – 8 day trip
JUL 16 to JUL 23 > TOTALITY from Darjeeling
Ex Delhi, India

Rick Brown’s Eclipse Safaris
Eclipse Leader > Rick Brown
Eclipse 2009, China – 14 day trip
JUL 14 to JUL 27 – 5m 29s TOTALITY near Wuhan
$3495.USD arrive Shanghai / depart Beijing
http://www.eclipse-chasers.com/esafari/default.htm

Ring of Fire Expeditions
Eclipse Leaders > Paul D. Maley / Claude Nicoller / Dr. Pat Reiff / Jacques Guertin
Tour #1 – Tibet & Wuhan China Total Solar Eclipse – 11 day trip < NEW LISTING!
JUL 13 to JUL 23 – 5m 26s TOTALITY from Wuhan, China
$3789.USD ex Shanghai, a post tour to Beijing is also available
http://www.eclipsetours.com/wuhan09.html
Tour #2 – The Nearly 6 Minute Solar Eclipse Expedition – 7 day trip
JUL 19 to JUL 25 – 5m 20s of TOTALITY from Jiaxing to 5m52s in Shanghai
$3039.USD ex Shanghai
http://www.eclipsetours.com/china09.html
Extensions available for: 10 days - Tibet (JUL 09 to JUL 18) (pre tour)
5 days – Beijing (JUL 25 to JUL 29) (post tour)
Tour #3 – Kiribati 4m 50s Totality – 7 day trip < NEW LISTING!
JUL 19 to JUL 25 – 4m 50s of TOTALITY from Butaritari, Gilbert Islands
$4800.USD ex Fiji (Airfare from LAX included)
http://www.eclipsetours.com/butari09.html
Samar Magic Tours < NEW LISTING!
http://www.samarmagictours.com/
Total Solar Eclipse in Nepal > 8 day tour
JUL 17 to JUL 24 > TOTALITY from Gaighat, Nepal
$1260.USD / €1050.EURO ex Kathmandu based on 10+ individuals in the group
Total Solar Eclipse in China > 8 day tour
JUL 18 to JUL 25 > TOTALITY from Mt. Emei
$1999.USD / €1669.EURO ex Beijing based on 10+ individuals in the group
Extensions available to; Tibet, Yunnan, Hong Kong, Beijing/Xi’an/Shanghai

Sanya China Travel < NEW LISTING!
http://www.sanyachinatravel.com/index.php
Eclipse Tour A > 6 day tour
JUL 18 to JUL 23 > TOTALITY ~ 5m 56s from Shanghai
£1350.GBP ex Shanghai
http://www.sanyachinatravel.com/tours/eclipse_tour.php#tourA
Eclipse Tour B > 10 day tour
JUL 15 to JUL 23 > TOTALITY ~ 5m 56s from Shanghai
£2020.GBP ex Shanghai
http://www.sanyachinatravel.com/tours/eclipse_tour.php#tourB

Siemer & Hand Travel
http://www.siemerhand.com/cgi-bin/travel/index.html
Total Solar Eclipse in China > 10 day tour < NEW LISTING!
Eclipse Leaders > Richard French / Daniel Gardner
JUL 15 to JUL 24 > TOTALITY ~ 5m 53s from Oriental Green Boat Park in Shanghai
$3895.USD, arrive Beijing / depart Shanghai
Extension available for; 4 days – Yangtze River Cruise (JUL 24 to JUL 28) (post tour)
2009 Total Solar Eclipse Cruise & Exploration of Japan > 15 day tour
Eclipse Leaders > Edwin L. Turner
JUL 15 to JUL 29 > TOTALITY nearly 6m 38.9s aboard the cruise ship Costa Classica at 24° 12.2’ N and
144° 07.0’ E
$7795.USD, arrive Beijing / depart Tokyo
Total Solar Eclipse in China > 10 day tour < NEW LISTING!
Eclipse Leaders > Bing Quock
JUL 15 to JUL 24 > TOTALITY ~ 5m 53s from Oriental Green Boat Park in Shanghai
$3895.USD, arrive Beijing / depart Shanghai
Extension available for; 4 days – Yangtze River Cruise (JUL 24 to JUL 28) (post tour)
Sita World Tours - Solar Eclipse Tours < NEW LISTINGS!
http://www.eclipsetours.net/tours.htm

Total Solar Eclipse Cruise > 14 day trip
JUL 16 to JUL 29 > 6m 39s TOTALITY from at sea aboard the Costa Classica
$2052.USD arrive Beijing, depart Shanghai
http://www.eclipsetours.net/cruise/chinaeclipse2009.html

Total Solar Eclipse Over China > 8 day trip
JUL 18 to JUL 25 > 5m 53s TOTALITY from Shanghai
$2650.USD arrive Beijing, depart Shanghai
http://www.eclipsetours.net/cruise/chinaeclipse2009.html
Extensions available for:
3 days – Beijing (JUL 16 to JUL 18) (pre tour)
3 days – Shanghai (JUL 25 to JUL 27) (post tour)

Sirius Travel

Option A - Tibet & China > 18 day trip
JUL 13 to JUL 30 > 5m 00s TOTALITY at 3099 meters on Mt. Emei Shan
$4325.USD / $4950.USD RT ex Beijing, China
http://www.siriustravel.com/tibet09/itinerary.cfm

Option B - Tibet & China > 12 day trip
JUL 13 to JUL 24 > 5m 00s TOTALITY at 3099 meters on Mt. Emei Shan
$3850.USD / $4450.USD RT ex Beijing, China
http://www.siriustravel.com/tibet09/itinerary.cfm

South America Classic Tours
http://www.solar-eclipse-tours.com/

Trip 1 – Total Solar Eclipse on Mt. Emei > 14 day trip
JUL 12 to JUL 25 > 4m 42s TOTALITY at 3077 meters ASL on Mt. Emei Shan
$3190.USD, arrive Beijing / depart Shanghai

Trip 2 - Eclipse Tour to Jinshan > 8 day trip
JUL 17 to JUL 24 > 5m 53s TOTALITY at the beach in Jinshan
$1590.USD, ex Shanghai
http://www.solar-eclipse-tours.eu/eclipse_2009_jinshan_8days.htm

Trip 3 - China – Hangzhou > 14 day trip
JUL 12 to JUL 25 > 5m 53s TOTALITY at the beach in Jinshan
$2690.USD, arrive Beijing / depart Shanghai
http://www.solar-eclipse-tours.eu/eclipse_2009_jinshan_14days.htm

Trip 4 – Eclipse Tour to Jinshan > 4 day trip < NEW LISTING!
JUL 20 to JUL 25 > 5m 53s TOTALITY at the beach in Jinshan
$348.USD ex Shanghai
http://www.solar-eclipse-tours.eu/eclipse_2009_jinshan_4days.htm

Spears Travel
http://www.spearstravel.com/astronomy/upcoming.htm

Southern China 2009 > 10 day trip
JUL 15 to JUL 24 > 5m 50s TOTALITY
£630.GBP ex Paro
http://www.spearstravel.com/astronomy/china09/
Travel and Trek
http://www.travelandtrek.com/index.html
Bhutan Solar Eclipse Tour - July 2009 > 8 day trip
JUL 19 to JUL 26 > 3m 01s TOTALITY from Thimphu, and up to 4m for those driving 5 hours to the S.
$1860.USD, ex Paro, Bhutan
http://www.travelandtrek.com/Bhutan.htm#Eclipse

Travel Wizard
http://www.travelwizardtravel.com/astro.htm
Eclipse Leader > Stephen D. Last
China’s Eclipse Tour > Info yet to be posted on the Travel Wizard web site
   TOTALITY from south of Shanghai

TravelQuest International
http://www.tq-international.com/index.htm
China’s Footsteps of Emperors – Shanghai > 6 day trip
JUL 18 to JUL 23 > 5m 53.5s TOTALITY near Shanghai
$2230.USD ex Shanghai

China’s Footsteps of Emperors – Beijing & Shanghai> 9 day trip
JUL 15 to JUL 23 > 5m 53.5s TOTALITY near Shanghai
$2840.USD, arrive Beijing / depart Shanghai
Extensions available for;  3 days – Xi’an & Terracotta Warriors (JUL 23 to JUL 25) (post tour)
   5 days – Guilin & Terracotta Warriors (JUL 23 to JUL 27) (post tour)
   11 days – Yangtze River Cruise, Guilin & Terracotta Warriors
          (JUL 23 to AUG 03) (post tour)

Total Solar Eclipse Cruise > 15 day trip
Eclipse Leaders > Rick Feinberg & Owen Gingerich
JUL 15 to JUL 29 > 3m 26s TOTALITY Aboard SS Paul Gauguin well NW of Tahiti
Starting at $6995.USD + $395.USD for port fees & taxes > ex Papeete, Tahiti
http://www.travelquestinternational.com/CookIslands/NCIhome.htm

Tropical Sails Corp
http://www.tropicalsails.com/
Eclipse 2009 China Total Solar > 14-day trip
JUL 11 to JUL 24 > approximately 5m 51s TOTALITY near Anji, Zhejiang , China
$2898.USD ex arrive Beijing / depart Shanghai
http://www.tropicalsails.com/eclipse/page2.html

Twilight Tours
http://sciencecenter.net/twilighttours/
China Total Solar Eclipse Tour > 14-day trip
JUL 13 to JUL 26 - 5m 50s TOTALITY near Hangzhou
$3325.USD, arrive Beijing / depart Shanghai
http://sciencecenter.net/twilighttours/200907/itinerary.pdf
Vigbyor Travels < NEW LISTING!
http://www.vibgyorindiatours.com/
Total Solar Eclipse July 2009 – Eclipse on Varanasi > 10-day trip
  JUL 14 to JUL 23 - TOTALITY near Varanasi
  £675.GBP ex Delhi
  http://www.vibgyorindiatours.com/tourism_packages.asp?tour=42

Voyages of Discovery < NEW LISTING!
http://www.astroadventures.net/index.html
Eclipse Leader > Dr. Howard L. Cohen
China Total Solar Eclipse Tour 2009 >19-day trip
  JUL 19 to AUG 06 - 5m 36s TOTALITY in Hyzhous City, about 20 miles (32 km) south of centerline
  $7895.USD, arrive Shanghai, depart Beijing
  http://www.astroadventures.net/2009/CHINA/overview.html

Wendy Wu Tours (Australia) < NEW LISTING!
Eclipse & Shanghai Experience >14-day trip
  JUL 19 to JUL 27 - 5m 40s TOTALITY near Hangzhou
  $2775.AUD ex Shanghai, or $3975.AUD RT from Australia

Wild Frontiers
http://www.wildfrontiers.co.uk/wildfrontiers/region.jsf?id=1
Village India: Solar Eclipse Tour >15-day trip
  JUL 19 to AUG 02 – TOTALITY viewed from Maheshwar
  £1860.GBP, arrive Mumbai / depart Delhi
  http://www.wildfrontiers.co.uk/wildfrontiers/region_itinerary.jsf?tid=144&id=1

Winco Eclipse Tours
http://www.wincoeclipsetours.com/
China 2009 Eclipse Expedition >18-day trip
  JUL 06 to JUL 24 - 5m 55s TOTALITY south of Shanghai
  of $5540.USD ($4745.USD, plus $795.USD for in-China flights), arrive Beijing / depart Shanghai
  http://www.wincoeclipsetours.com/id51.htm

Wilderness Travel
http://www.wildernesstravel.com/
Eclipse Leader > Alex Filippenko, PhD
Total Solar Eclipse in Polynesia > 15-day trip
  JUL 15 to JUL 29 > 3m 26s TOTALITY
  $6995.USD ex Papeete, Tahiti
  http://www.wildernesstravel.com/itins/evpolyne.html
The eclipse of 2010 July 11 is almost entirely visible from the waters of the South Pacific Ocean, with very small interjections of reefs and tiny islands. It passes close to Tahiti, and totality envelopes Rapa Nui (Easter Island). Whether going to Tahiti or Rapa Nui, space may be very limited, and like the TSE of 2005, will likely sell out well in advance. An article posted to the USAToday web site last year stated that the lodging at the hotels on Rapa Nui was booked 8 years in advance. I have little doubt that there will be several eclipse camps set up here, but just how many will be able to get there, and with LAN Airlines only making 6 flights a week from Santiago to Rapa Nui, perhaps they will gear up for a larger assault on the remote island.

Tahiti lies just outside the eclipse path, and those venturing on the seas only 120km south will have a chance for 3m 55s of totality, with longer durations the further east you travel, and the nearby small island of Mahetia will glimpse 1m 45s of totality, and several precarious atolls to the east of Tahiti come very close to the centerline. Most tour groups are compiling only lists of individuals wanting to travel to these areas, so get on a list requesting more information. To date, the following are the only groups actively advertising their rates and taking reservations;

**A Classic Tours Collection**
http://aclassictour.com
Rapi Nui Trip < Details Pending
http://aclassictour.com/solareclipse.tours.html

**Astronomical Tours < NEW LISTING!**
http://www.astronomicaltours.net/2010/index.html

Tahitian Windward Islands Eclipse Cruise > 9 day tour
JUL 08 to JUL 16 > TOTALITY viewed from your yacht at sea
$4250.USD ex Papeete, Tahiti
http://www.astronomicaltours.net/2010/Yacht/index.html

Tahiti Proper > 6 day tour < Details Pending
JUL 09 to JUL 14 > TOTALITY 4m 36s viewed from Tatakotu
$3795.USD ex Papeete, Tahiti

Taste of Tahiti > 6 day tour < Details Pending
JUL 08 to JUL 16 > TOTALITY viewed from the Tuamotus Archipelago
$2795.USD ex Papeete, Tahiti

**Mountain Adventures < NEW LISTING!**
http://www.mountainadventures.com/

Total Solar Eclipse Easter Island 2010 > Approximately 15 Day Tour < Details Pending
http://www.mountainadventures.com/mountain%20adventures_016.htm

e-mail: mtnadv@netshet.net for details and prices
Ring of Fire Expeditions
Eclipse Guide > Paul D. Maley

Solar Eclipse Cruise in French Polynesia – 11 day trip
   JUL 08 to JUL 18 – 4m 01s TOTALITY near Moorea, Society Islands
   $3526.USD and up ($3058.USD + $468.USD Port, fuel and gratuity surcharges) ex Papeete, Tahiti
   http://www.eclipsetours.com/tahiti.html

Sirius Travel
Eclipse Tour 2010 – Easter Island < Details Pending
   http://www.siriustravel.com/easterisland10/index.cfm

TravelQuest International
   http://www.tq-international.com/index.htm
Easter Island Total Solar Eclipse 2010 < Details Pending
French Polynesian Voyage to Totality 2010 > 7 Nights < Details Pending
   3m 45s TOTALITY
   http://www.travelquestinternational.com/FrenchPolyinfo.html
Cook Islands Total Solar Eclipse 2010 > 9 Days < Details Pending
   JUL 05 to JUL 13 – 3m 19s of TOTALITY from Mangaia Island
   Extensions available for: Cook Island of Aitutaki
   New Zealand
   Easter Island

Tropical Sails Corp
http://www.tropicalsails.com/
Pacific Anaa Atoll Solar Eclipse July 11, 2010 < Details Pending
   Between 2 to 3 minutes of TOTALITY
   http://www.tropicalsails.com/eclipse/page7.html

Twilight Tours
http://sciencecenter.net/twilighttours/
Easter Island / Chile Solar Eclipse Expedition >10-day trip < NEW LISTING!
   JUL 06 to JUL 15 – over 4m 45s TOTALITY on Easter Island
   $3650.USD ex Santiago, Chile, limited to 110 participants
   http://www.sciencecenter.net/twilighttours/201007/index.htm

Wildlife Worldwide < NEW LISTING!
http://www.wildlifeworldwide.com/home.html
Eclipse Guide > Prof. John Parkinson
Total Solar Eclipse – Easter Island - July 2010 >14-day trip
   JUL 07 to JUL 21 – over 4m 45s TOTALITY on Easter Island
   £3795.GBP ex London, Heathrow
   http://www.wildlifeworldwide.com/holiday/total_solar_eclipse_easter_island.html

At TOTALLY!!!, we have done a GOOGLE web search to find travel agents that are presently booking eclipse tours. Because they are listed here is in no way an endorsement for the veracity of any agent or agencies. We present these brief overviews for your convenience and to be a reference for your further examination to help you find the package that best fits your travel desires and prices. Please use the links to review all of the accompanying details about each trip.

Nearly ALL packages do NOT include airfare to and from your country of origin if other than the country you reside in, and visas are also extra, unless noted otherwise. Meals are sometimes included and sometimes not; please read these itineraries carefully. All prices listed are usually the starting price; single supplements (one person/per room) prices are usually notably higher, and I encourage anyone traveling alone to find a travel buddy so higher costs can be avoided. A good travel buddy will also watch your back, just like a diving buddy, and keep strangers at a distance when you are making an ATM withdrawal abroad.

Additional trip extensions are also often available. More listings will be added when they become available and be indicated with a NEW LISTING! value on the previous pages.

There is a distinction between tour groups that specialize in eclipse and astronomical tours, and tour groups that are including the eclipse into either their regular tours, or perhaps have modeled a tour to take advantage of the eclipse in a region they often cover in their tours. As a rule, even the eclipse/astronomy tour groups frequently contract out to local tour groups familiar with the sites of the host country. The difference is when a tour group engages an experienced eclipse guide, the day of the eclipse, and even a couple of days leading up to the eclipse, in order to do anything within reason to get everyone to a location where the Sun will be visible at the time of totality, even if it means racing to find a hole in the clouds (heaven forbid), and even if it means moving the tour hundreds of miles in an attempt to view totality. That is why they call it “Eclipse Chasing.” Also, the eclipse guide can monitor the weather patterns, as well as describe the events of a total solar eclipse to first time eclipse chasers (FTEC’s). No matter what, plan to have a great sightseeing trip, and even if it is cloudy, you will still have had a fascinating tour.

If your group does NOT have an “eclipse leader,” and if you have eclipse experience, you may need to step up to be sure that on eclipse day, the focus is getting to and giving ample time for the experienced eclipse chasers to set up equipment. It is important to have a lot of time to set up and align your equipment, with plenty of time to spare.

In most cases expect there to be a fee for a visa to the country or countries you will be visiting, and some can be a fairly hefty sum, in addition to requiring you to acquire it months ahead of time, so the more countries, the more fees, and these are usually not included in your basic tour price. And almost always, the tour cost does NOT include your international airfare. Often your tour company can arrange your international flights, but with careful work, you may find better fees if you book yourself; it may, however, be difficult matching your arrival and departure times with that of the tour. In some cases, if you land in one country in order to get to another, even that short time in the airport may require another visa.
ECLIPSE SPECIALTY TOUR GROUP WEB SITES . . .

A Classic Tours Collection
   http://aclassictour.com

Eclipse City
   http://www.eclipse-city.com/

Far Horizons

Mayhugh Travel – Astronomy Vacations
   http://astronomyvacations.com/

MWT Associates (Astronomical Tours)
   http://www.melitatrips.com/

Ring of Fire Expeditions
   http://www.eclipsetours.com

Sirius Travel
   http://www.siriostravel.com/

Sita World Tours - Solar Eclipse Tours
   http://www.eclipsetours.net/

Spears Travel
   http://www.spearstravel.com/astronomy/

TravelQuest International
   http://www.tq-international.com/index.htm

Travel Wizard
   http://www.travelwizardtravel.com/astro.htm

Winco Eclipse Tours, Inc.
   http://www.wincoecliptours.com
Other USEFUL ECLIPSE Web Sites . . .

NASA Eclipse Home Page
http://eclipse.gsfc.nasa.gov/eclipse.html

Fred Espenak’s Web Site
http://www.mreclipse.com/

JayAnderson – Eclipse Weather Predictions
http://home.cc.umanitoba.ca/~jander/

Xavier Jubier’s Google Earth Eclipse Maps

International Astronomical Union - Solar Eclipse Working Group
http://www.eclipses.info/

Jay Pasachoff – Past Eclipse Expeditions
http://www.williams.edu/Astronomy/eclipse/

Sheridan Williams’s Web Site
http://www.clock-tower.com/

Eclipses Online – HMNAO, CCLRC
http://www.eclipse.org.uk/

Glenn Schneider: Umbraphile
http://nicmos.as.arizona.edu:8000/UMBRAPHILLIA.html

Bill Kramer’s Site
http://www.eclipse-chasers.com/default.html
Where In the World Are the Eclipse Chasers?
http://www.eclipse-chasers.com/where.htm

Dan McGlaun’s – Eclipse2017.org
http://www.eclipse2017.org/

Jeffrey R. Charles – Eclipse Chaser Journal
http://www.eclipsechaser.com/

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Some future issues will occasionally use photos that have been posted to web sites that are saved at 72 dpi, and likely will not be as sharp as others posted at 128 dpi.

Please send any correspondence, suggestions or submissions to TOTALITYnewzine@aol.com.

Photo submissions can also be sent to the TOTALITYnewzine@aol.com; please format @128 dpi.