

APPENDIX E

NOAA Satellite Services – Smoke Detection

[www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2008; map.ngdc.noaa.gov/website/firedetects/viewer.htm]
[For space considerations, Smoke Text Products were edited to show only California and related narratives]

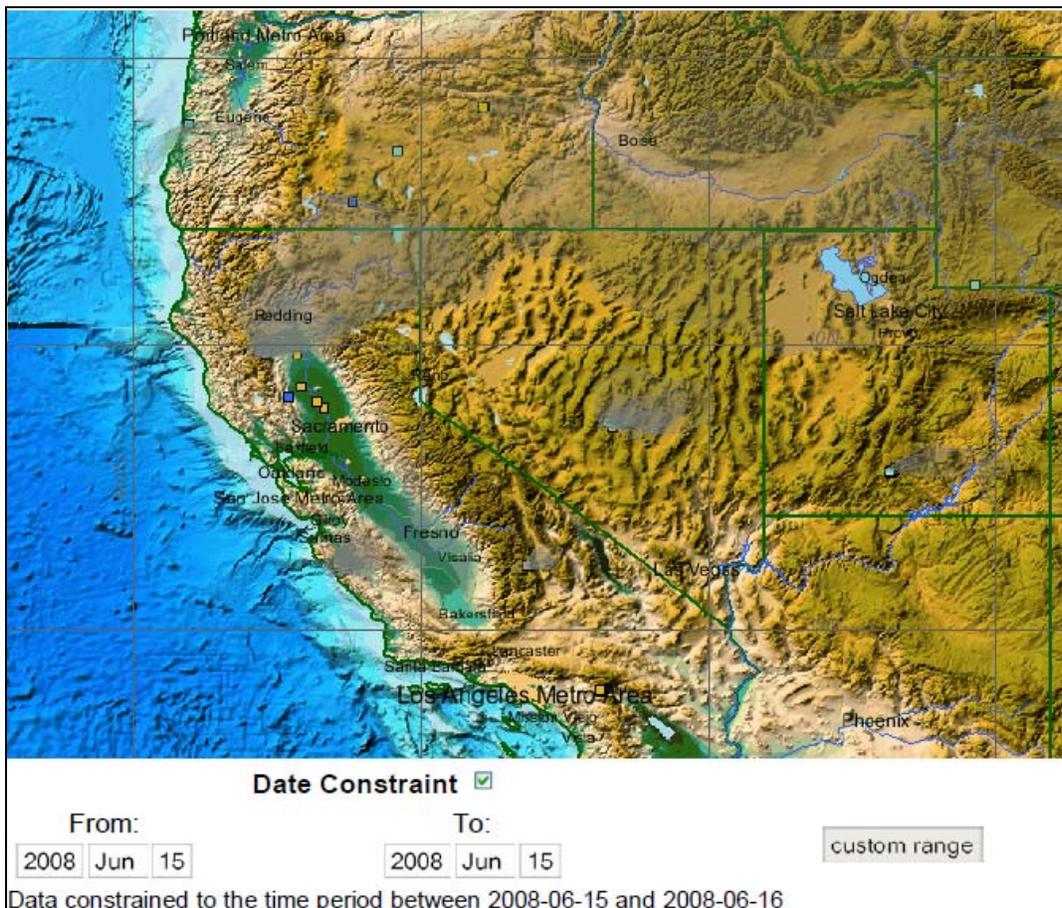
JUNE 2008

Sunday June 15, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0202Z JUNE 16, 2008

California:

The Indians fire in Monterey county continues to burn generating moderately dense to dense smoke which is fanning out from the source. The smoke covers most of Monterey county and reaches San Luis Obispo county to the south and most of the way through San Benito county to the northeast. The Whiskey fire in Tehama county is producing dense smoke which extends over 170km to the northeast reaching central Lassen county.

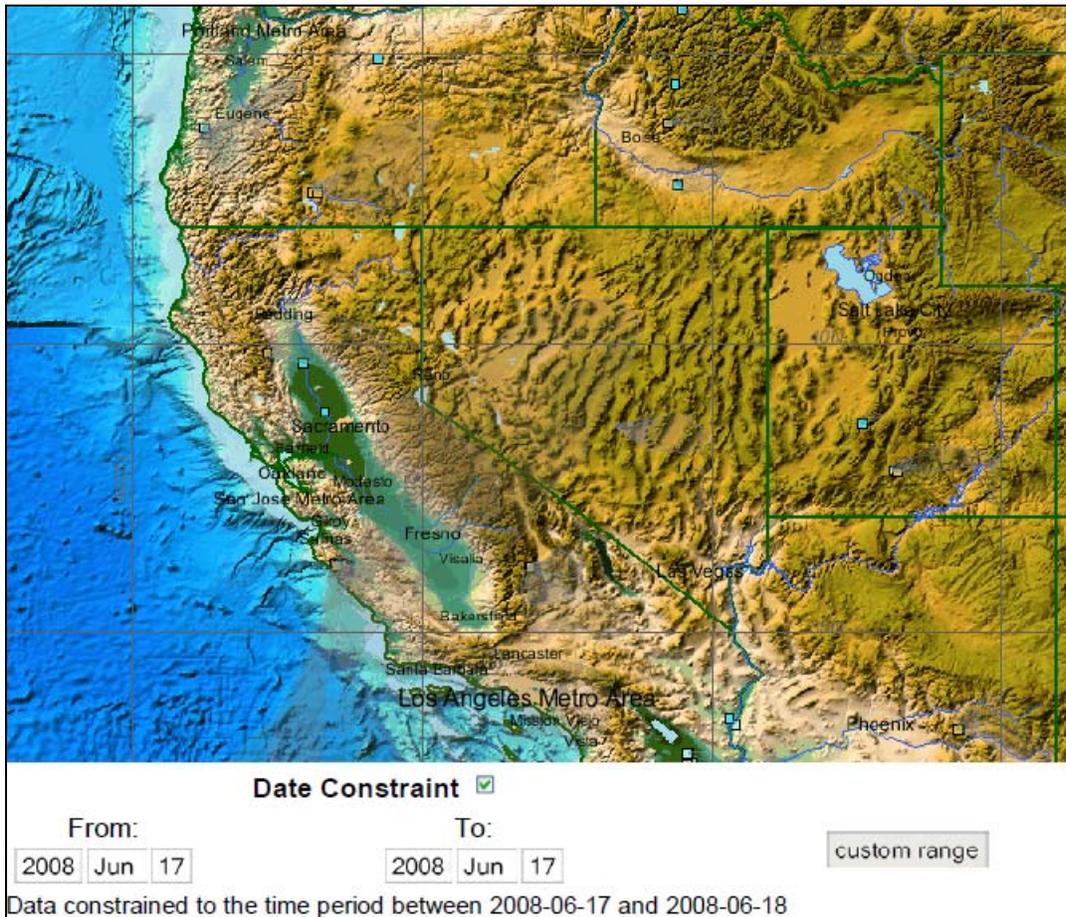


Monday June 16, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JUNE 17, 2008

California:

The Indians fire in Monterey county continues to burn generating moderately dense to dense smoke which extends east into the central valley. Remnant smoke has drifted north along the foothills of the Sierra reaching to a little west of Lake Tahoe. A fire in southeast Tulare county had a plume of light to moderate smoke fanning out to the east and west with 50 km of the blaze. The Whiskey fire in Tehama county is producing locally dense smoke which is slowly moving east across the county. An area of thin smoke then also extends to the northeast and covers much of northeast California.

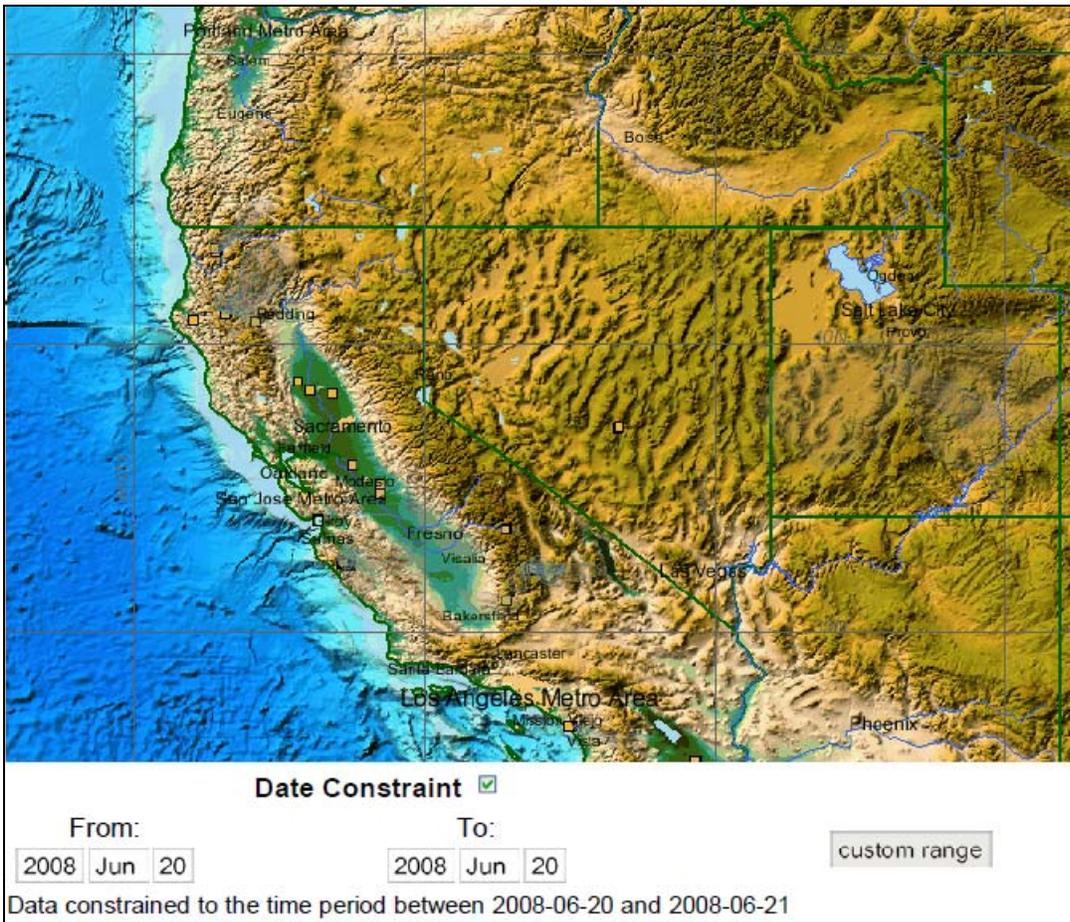


Friday June 20, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JUNE 21, 2008

California:

The Indians fire is currently producing moderately dense to dense smoke and is moving off to the east. The plume extends at least 250 km into central California. The Clover fire is also producing moderately dense to dense smoke which is moving to the south. This plume, which extends roughly 100 km from the source, fans out over Tulare county and also extends into Inyo and Kern Counties. Also in Monterey County, as of 2030Z, a moderately dense to dense smoke plume is racing off to the east and extends at least 150 km from the source.

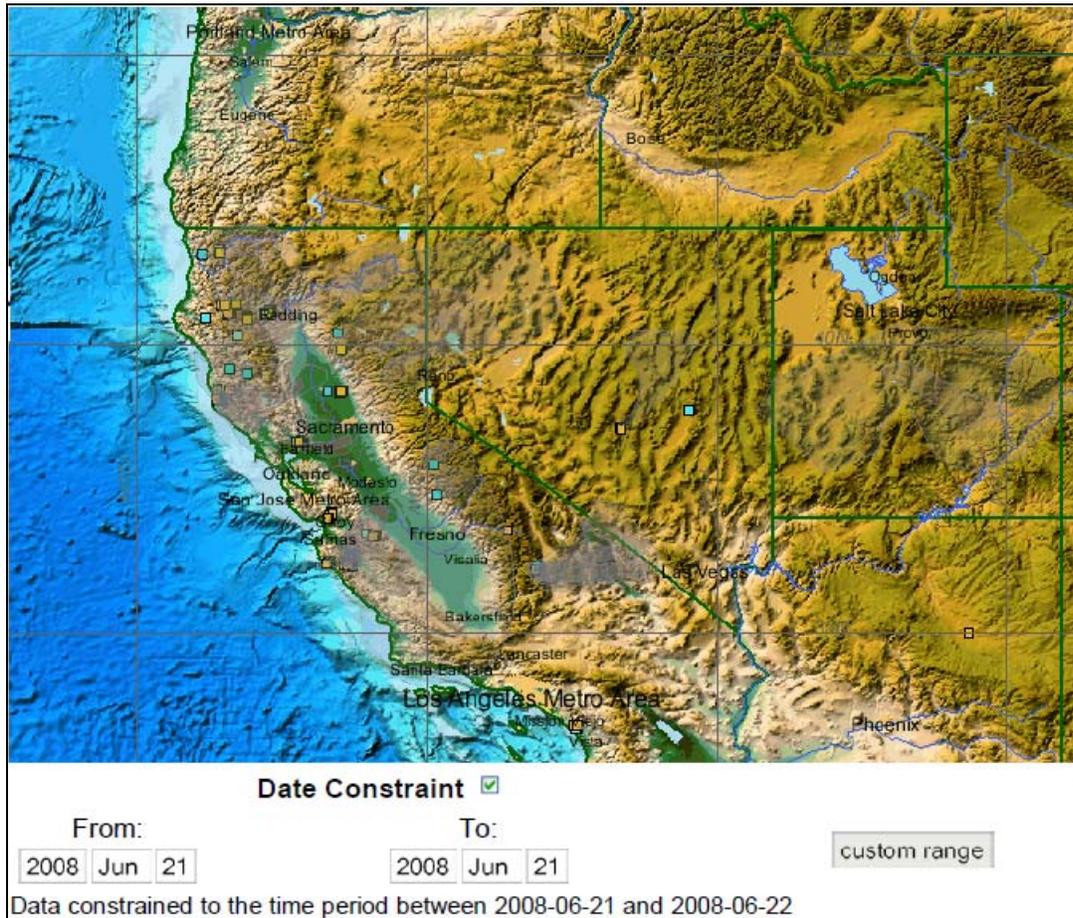


Saturday June 21, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JUNE 22, 2008

California:

Several small fires near the coast in Mendocino county are generating moderately dense to dense smoke which is traveling to the south crossing into Lake and Sonoma counties. Trinity county also has several fires which are generating light to moderately dense smoke which is traveling to the north into Siskiyou county. In western Siskiyou county a fire is generating moderately dense smoke which is traveling northeast into Klamath county, Oregon. In northwestern San Diego county a fire in emanating moderately dense to dense smoke which extends over 150km to the southeast approaching the Salton Sea. The Clover fire in eastern Tulare county has a plume of moderately dense to dense smoke extending almost 100km to the east. The Indians fire continues to produce dense smoke which is traveling to the northeast into Fresno county.



Sunday June 22, 2008

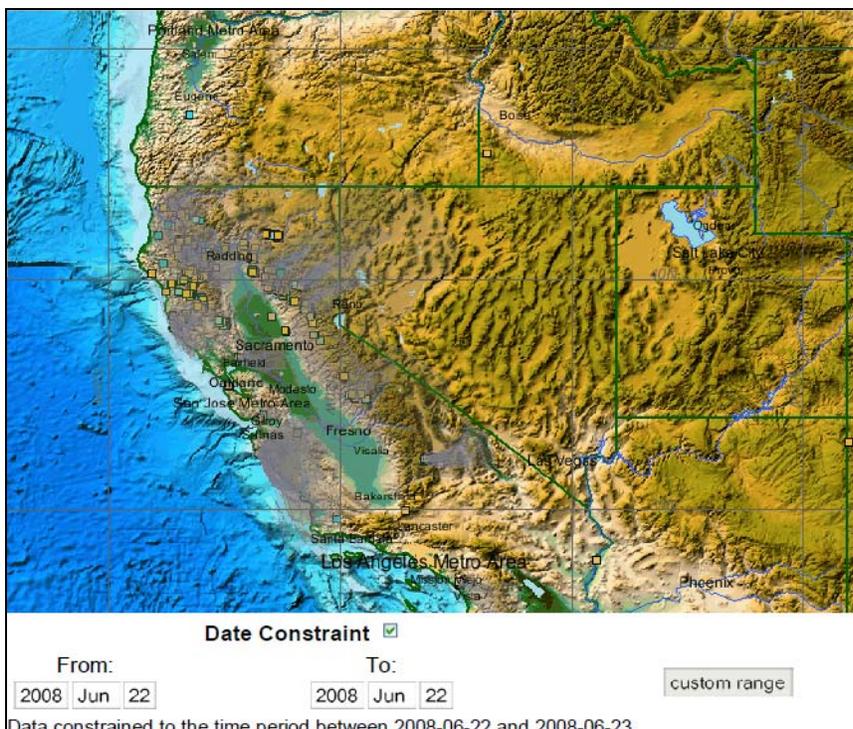
DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JUNE 23, 2008

Northern California:

There are currently three large fire complexes burning in northern California. The first is the Siskiyou complex located in Siskiyou county. The smoke from these fires is traveling to the northeast entering into Jackson county Oregon. There are other fires in Trinity county which may also be part of the Siskiyou complex which are also generating moderately dense to dense smoke which is traveling to the northeast and moving into Shasta and Tehama counties. South of the Siskiyou complex in Mendocino county is the Lime complex of fires which is emanating moderately dense to dense smoke which is traveling to the south over 150km passing through Sonoma county and into Marin county. The final complex in northern California is the Iron complex which is in Butte, Plumas and Nevada counties. The smoke from these fires travels over 250km into the Nevada counties of Humboldt and Pershing.

Mid/Southern California:

The 'Wild' fire is located in Solana county and is emitting dense smoke which is traveling east into Sacramento county. In Mariposa county, several fires are producing moderately dense smoke which is moving to the east/northeast and entering into Mineral county Nevada. The Indians fire in Monterey county continues to generate large amounts of moderately dense to dense smoke which has moved over 150km to the west/northwest reaching western Mariposa county. The Clover fire in eastern Tulare county has continued producing moderately dense to dense smoke which is fanning out to the east reaching into southwestern Nye county. A fire located in northwestern San Diego county has light to moderately dense smoke which is tracking southeast and covering most of San Diego county.



Monday June 23, 2008

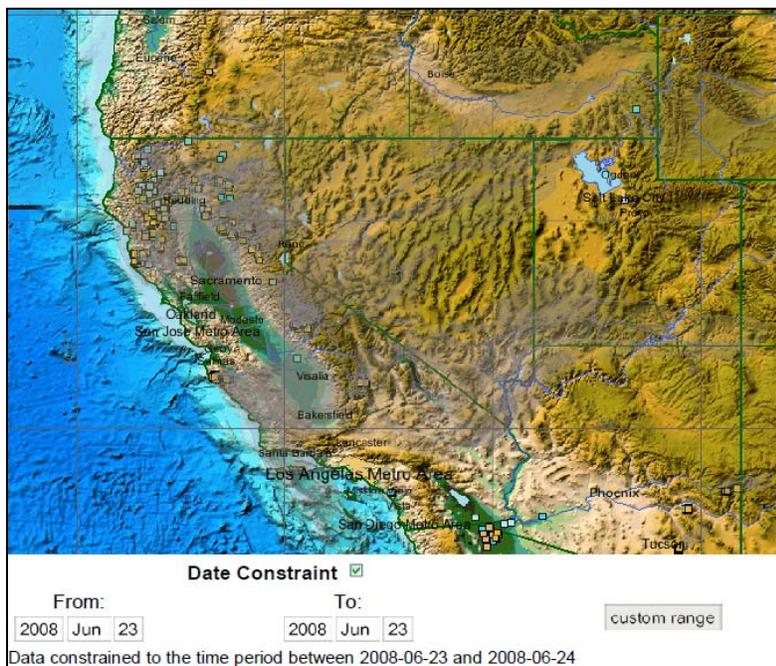
**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0230Z JUNE 24, 2008**

Northern California:

A large complex of wildfires burning in the Trinity National Forest (Trinity County) are producing dense to very dense smoke moving east across northern California. Moderately dense smoke spreads across parts of far northern California and southern Oregon and into western/northern Nevada. Light smoke spreads over parts of south and east sections of Oregon. Left over smoke from this fire burning yesterday spreads into parts of far eastern Oregon, southern/central Idaho and into west central Wyoming. Another complex of fires burning in the Klamath National Forest in Siskiyou county is producing a large area of moderately dense to dense smoke moving east into central/eastern portions of the county. Some light smoke spread into southern Oregon. Wildfire complex on the border of Plumas and Butte counties and another in southeast Plumas county are producing an overall area of dense to very dense smoke moving east into western Nevada. Wildfires in Mendocino County are producing dense smoke south and southeast into neighboring counties with smoke eventually combing with other smoke plumes from the many northern California wildfires.

Mid/Southern California:

The Indians fire in Monterey County (Big Sur) continues to generate large amounts of moderately dense to dense smoke south across southern/central California. Smoke also spreads into the Pacific Ocean across the Channel Islands and as far south as paralleling the Baja Peninsula. Another wildfire on the border of Madera/Mariposa county is emitting moderately dense to dense smoke moving north into Tuolumne and Alpine counties. Some dense smoke is fanning south. Another wildfire on the Tulare and Inyo county border is emitting moderately dense smoke moving east across Inyo county. Earlier in the day smoke was moving southwest before the shift east.

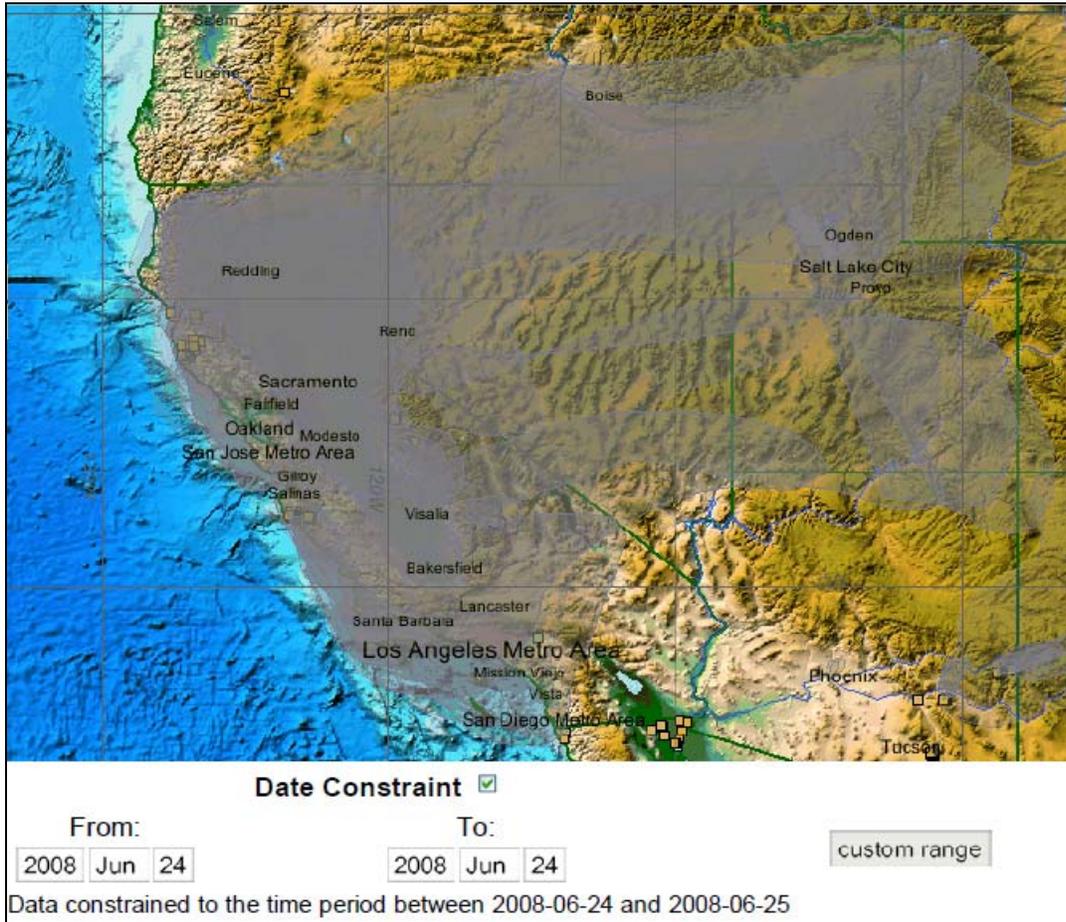


Tuesday June 24, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0145Z JUNE 25, 2008

California/Western US:

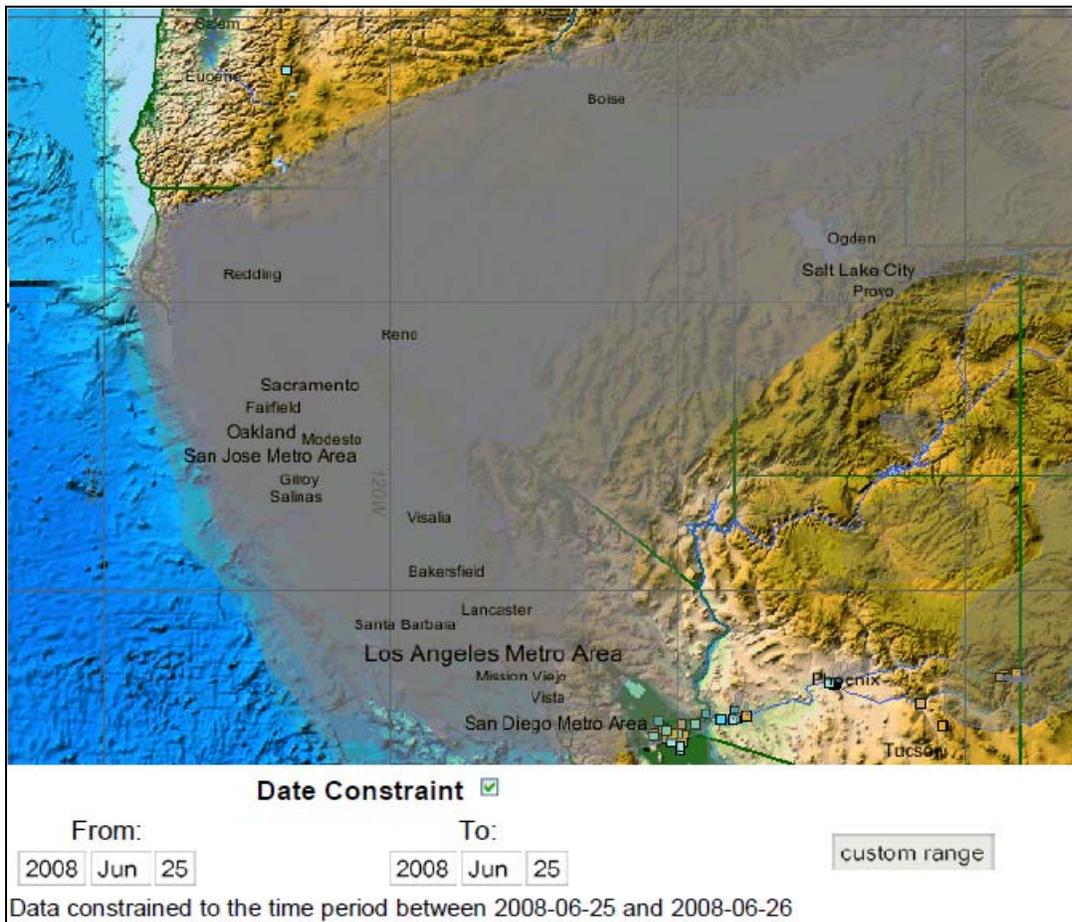
Several large conglomerates of wildfires in the north central part of the state, roughly 25 in all, are producing moderately dense to dense smoke across most of central and northern California above 37N. Smoke from these wildfires are spreading north and east, with lighter smoke moving into southeast Oregon and southern Idaho, but also into most of the state of Nevada, most of Utah, and western Wyoming. Another large wildfire, the Indians wildfire in Monterey County, near Big Sur, is producing dense smoke which is moving south along the coastline to the Channel Islands west of Los Angeles, and to points further south.



Wednesday June 25, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0245Z JUNE 26, 2008

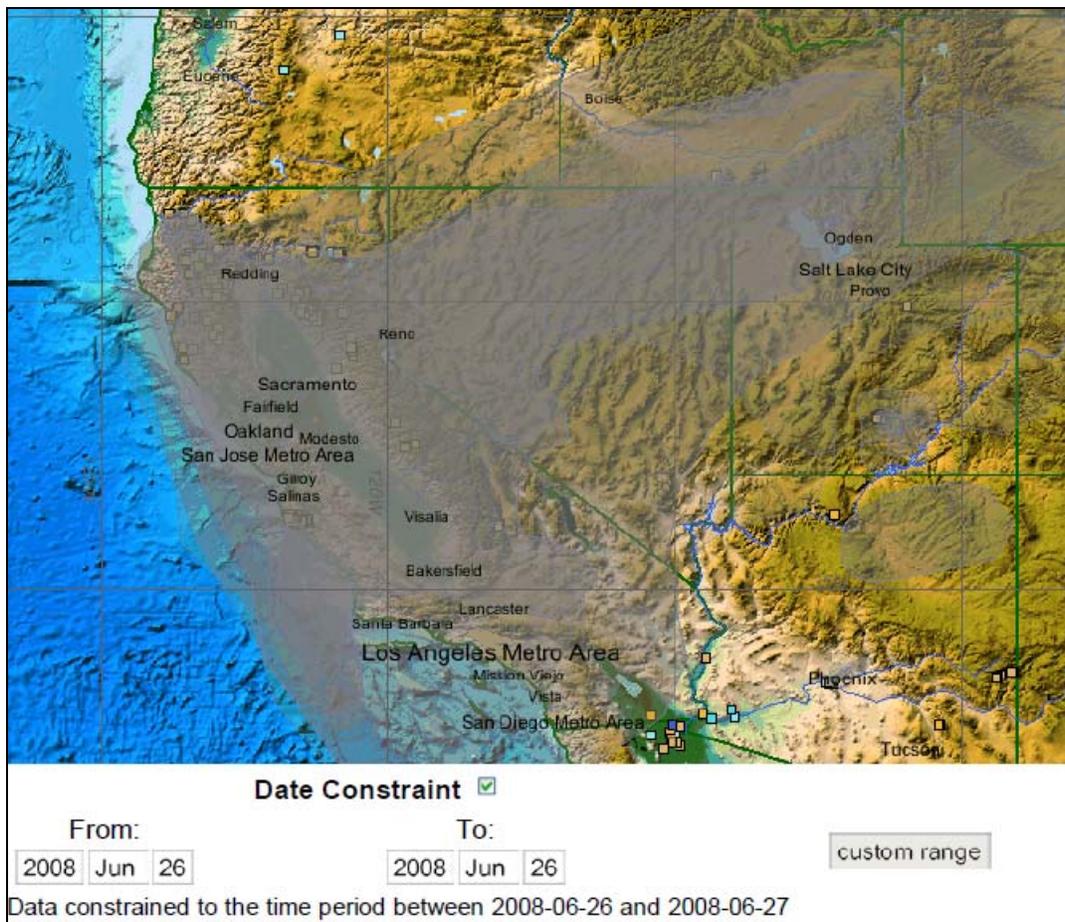
California/Western US to North Central Plains:
At least a handful of large wildfires and much more numerous somewhat smaller wildfires in the north central part of California continue to emit a large mass of smoke which covers much of California, Nevada, southern Oregon, southern Idaho, northern Utah, Wyoming, southern Montana, northern Colorado, and possibly extends eastward into the north central Plains over South Dakota and Nebraska. Within this large area of smoke, moderately dense to dense smoke covered much of northern and central California, including the San Francisco Bay region. The moderately dense to dense smoke also extended northeastward over southeastern Oregon, northern and western Nevada, southern Idaho, southwestern Montana, and western Wyoming. Over coastal west central California, the Indian fire in Monterrey County continued to produce moderately dense to dense smoke that extended southward to near Santa Barbara and the Channel Islands. Additional smoke from this fire which had been offshore appeared to move back inland across southern California including the Los Angeles and San Diego metro areas.



Thursday June 26, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0300Z JUNE 27, 2008**

California/Western US to the Northern and Central Plains:
Several large wildfires and numerous smaller wildfires in the north central part of California continue to emit a large mass of smoke which covers much of California and extends northeastward to the north central Plains. Smoke also extends southward and offshore of California. Within this very large region of smoke is a large batch of moderately dense to dense smoke which covers much of northern and central California, northern and central Nevada, southern Idaho, and northern Utah. The moderately dense to dense smoke also extends southward over much of central and even into a portion of southern California. Over coastal west central California, the Indian fire in Monterrey County continues to produce moderately dense to dense smoke which appeared to be moving more to the southwest and offshore late in the day.



Friday June 27, 2008

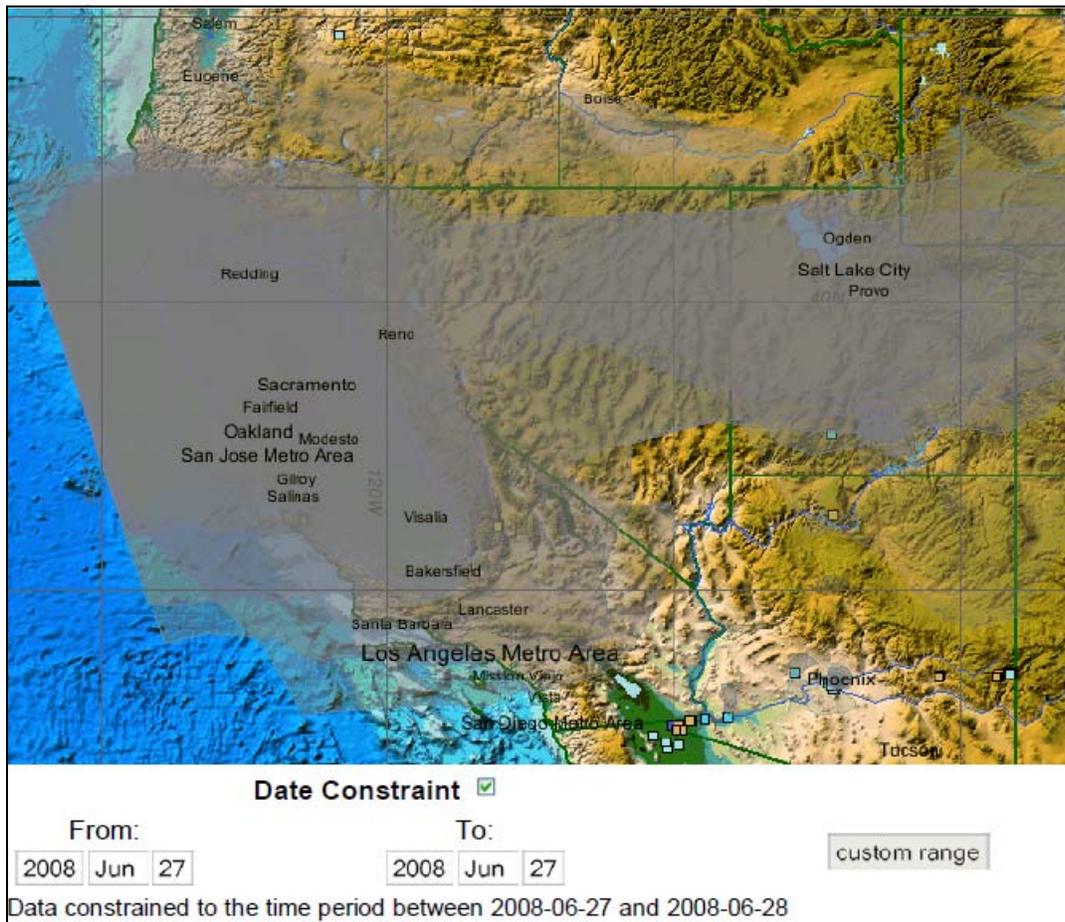
**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JUNE 28, 2008**

California:

Several large wildfires and numerous smaller wildfires in northern California continue to emit large amounts of moderately dense to dense smoke which covers much of California, north of 35N, and extends to the west over the Pacific Ocean.

Central US:

Light smoke remnant from the California fires previous days burning can be seen extending across much of the central United States. States over which the light smoke can be seen include: central Nevada, northern Utah, southern Wyoming, northern Colorado, southern Nebraska, most of Kansas and western Missouri.

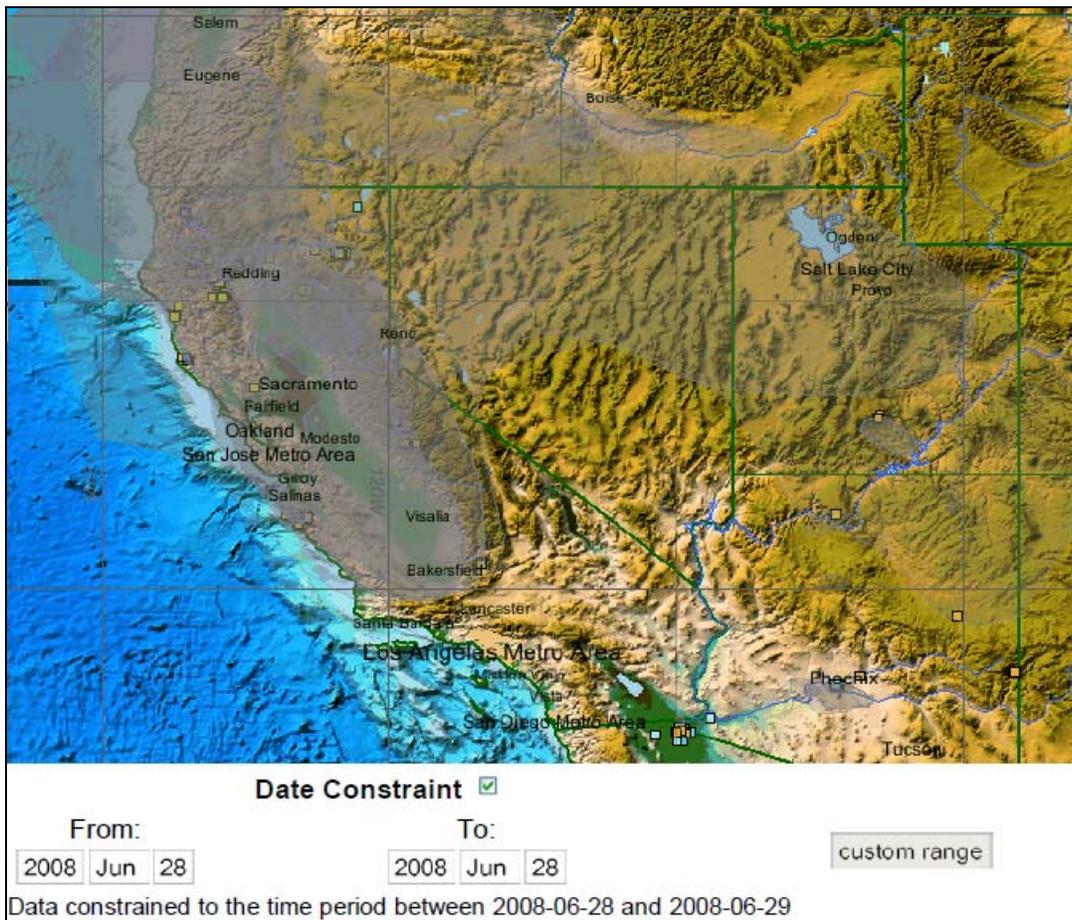


Saturday June 28, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0230Z JUNE 29, 2008**

California/Oregon:

Several large wildfires and numerous smaller wildfires in northern California continue to emit large amounts of moderately dense to dense smoke which fills the entire San Joaquin valley and coastal areas from near Big Sur up the coast and over the western half of Oregon.

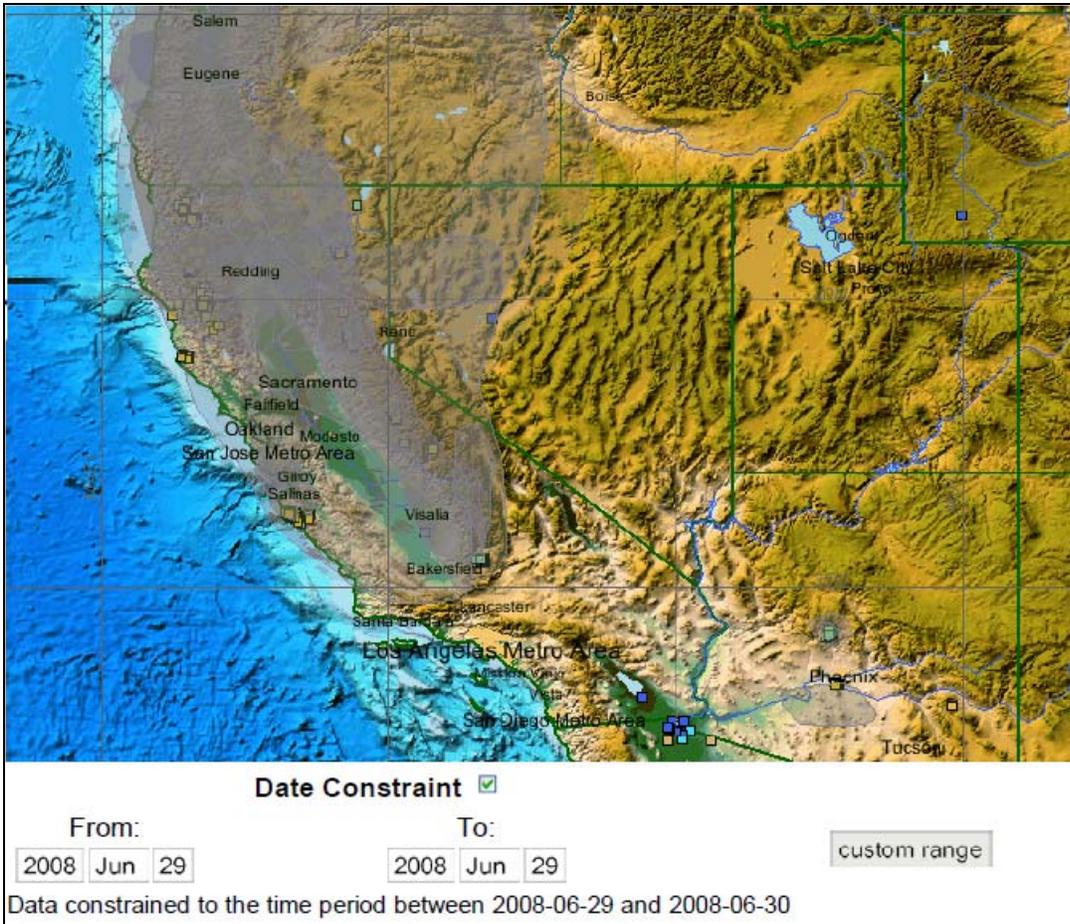


Sunday June 29, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JUNE 30, 2008**

California/Oregon/Washington/British Columbia:

An extensive area of light to moderately dense smoke extends north from 35N, all the up into central and northern California, most of Oregon, western Nevada, most of Washington State, and southwestern British Columbia in Canada. Within this enormous area of smoke, in northern California, lies several large wildfires emitting dense smoke. Furthermore, this dense smoke is moving off to the north. In addition, the Basin Complex fires in Monterey County California, near Big Sur, are producing an area of moderately dense to dense smoke moving north along the coast and reaching the Bay Area. However, full coverage of this smoke cannot be determined due to the marine layer. Lastly, the Alps Complex fire in central California is currently emitting heavy smoke and extends at least 300km to the north, ending in Mineral County, Nevada.



Monday June 30, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JULY 1, 2008

Western US/Western and Central Canada:

A huge area of smoke from the incredible number of fires burning in California covers most of northern and central California, western Oregon and into the Pacific off of Vancouver Island. The smoke is thickest with the Piute and Indians fires in Kern and Monterey counties respectively and is moving to the north. Very thick smoke was also seen with the fires in Trinity, Shasta, Tehama, Mendocino, Butte and Placer counties. The smoke area then curves from the Pacific back to the east and becomes thinner and extends inland over much of central and southern British Columbia, Alberta and Saskatchewan.



Date Constraint

From:

2008 Jun 30

To:

2008 Jun 30

custom range

Data constrained to the time period between 2008-06-30 and 2008-07-01

JULY 2008

Tuesday July 1, 2008

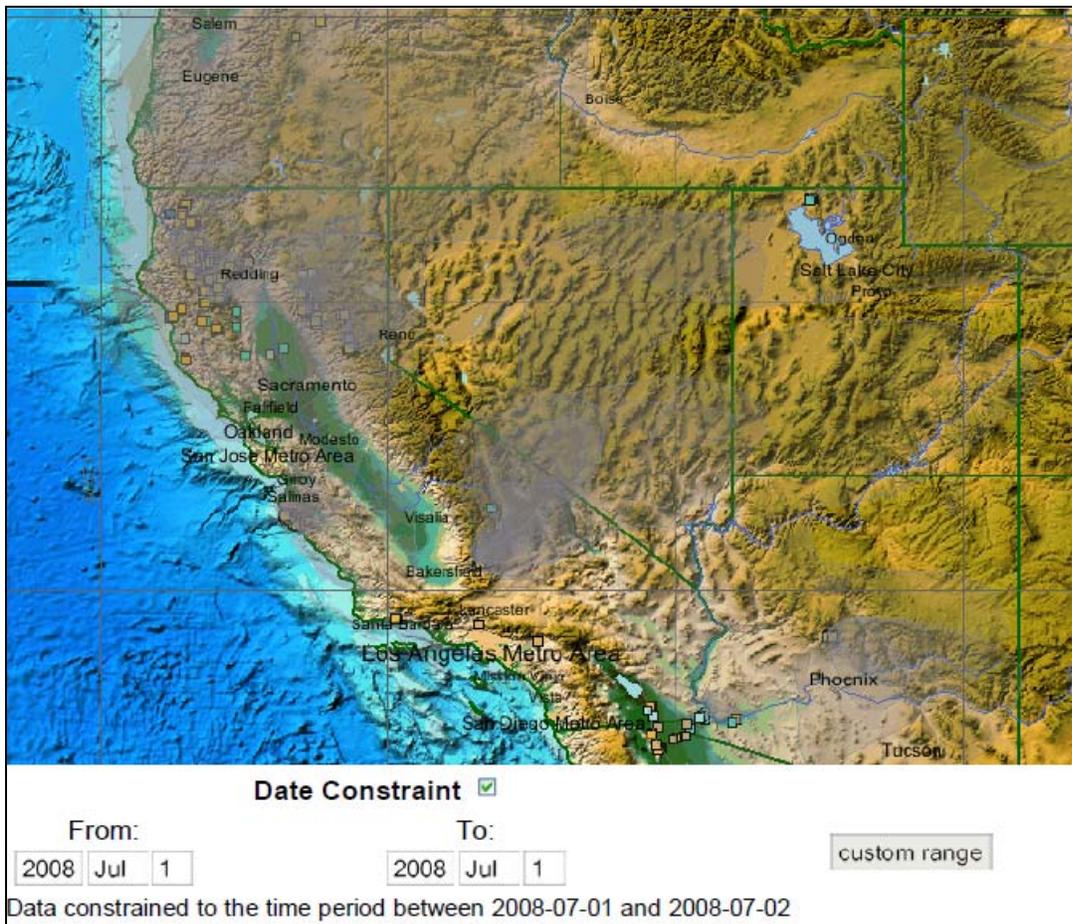
DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0155Z JULY 2, 2008

Northern California:

The fires in northern California continue to burn producing moderately dense to dense smoke which is traveling up the coast through western Oregon and Washington and into Canada.

Southern California:

A large fire along the coast in Monterey county is generating dense smoke which had stayed centralized around the fire but in the last few hours has begun moving east. In eastern Kern county the Piute fire is producing moderately dense to dense smoke which extends over 200km to the northeast entering into Nye county Nevada. Several smaller fires in eastern Imperial county are producing light smoke which is moving to the east.

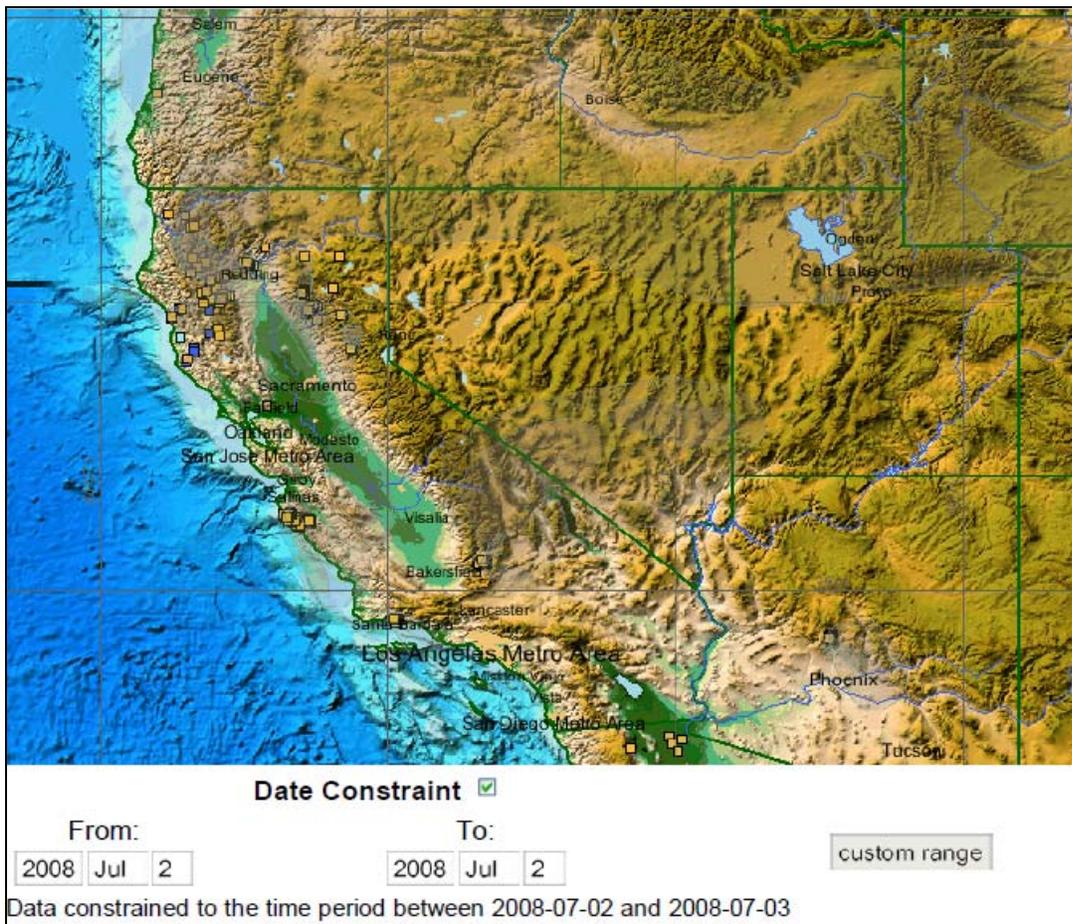


Wednesday July 2, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 3, 2008

Western US:

Heavy smoke was generally moving north and northeast from fires in California with the exceptions of a blaze near the coast in Santa Barbara County where heavy smoke was moving south and the Basin Complex and Indians fires which resulted in heavy smoke moving south. An extensive area of light smoke extended from southern California northward into British Columbia although it was obscured by cloud in northern Oregon and Washington.

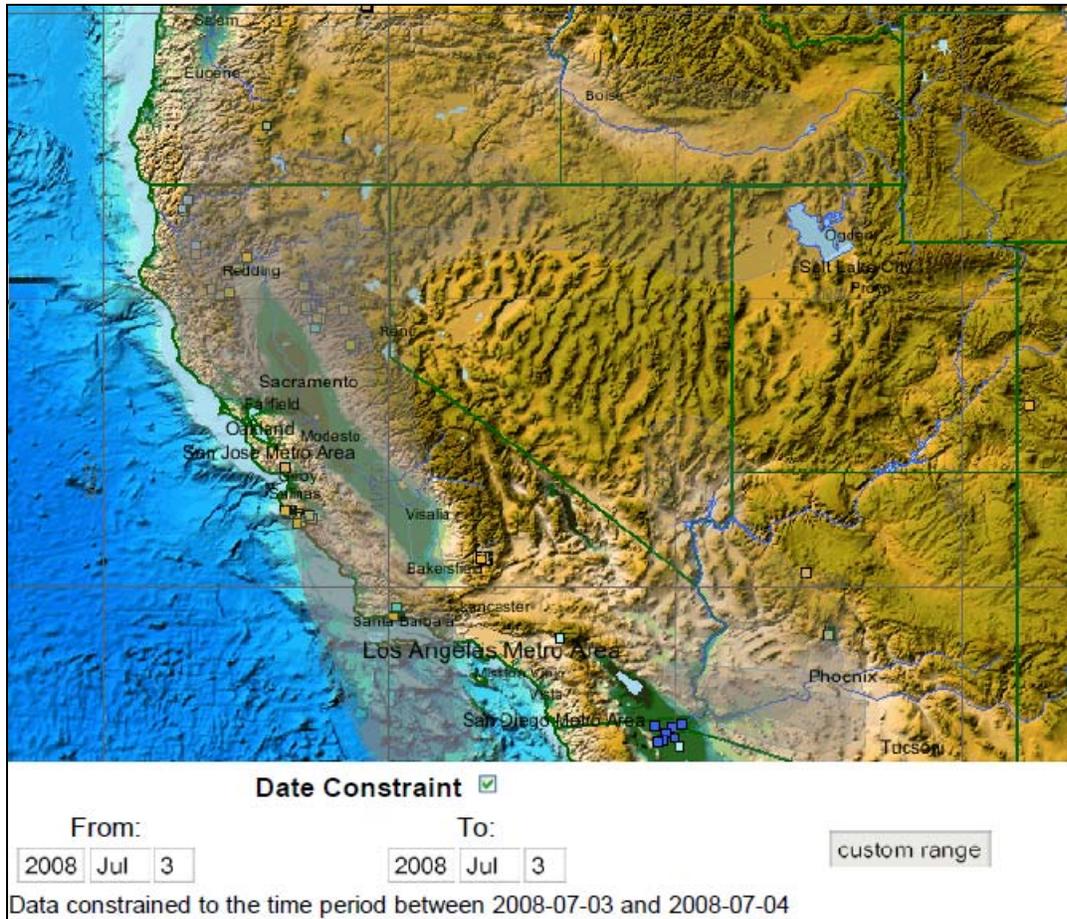


Thursday July 3, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0215Z JULY 4, 2008

California/Western US:

A fanning plume of heavy smoke was generally moving south along the coast from the fire near Big Sur to Point Conception. Another fire near Santa Barbara also had smoke moving south over the Channel Islands where it combined with the Big Sur smoke, which continues south to the Baja of California. Light to moderate smoke from numerous fires in northern California continues to trap smoke in the San Joaquin Valley. In addition, light smoke can be seen spreading north and east into most of Nevada, Oregon, southern Washington State, southern Idaho, and northern Utah.

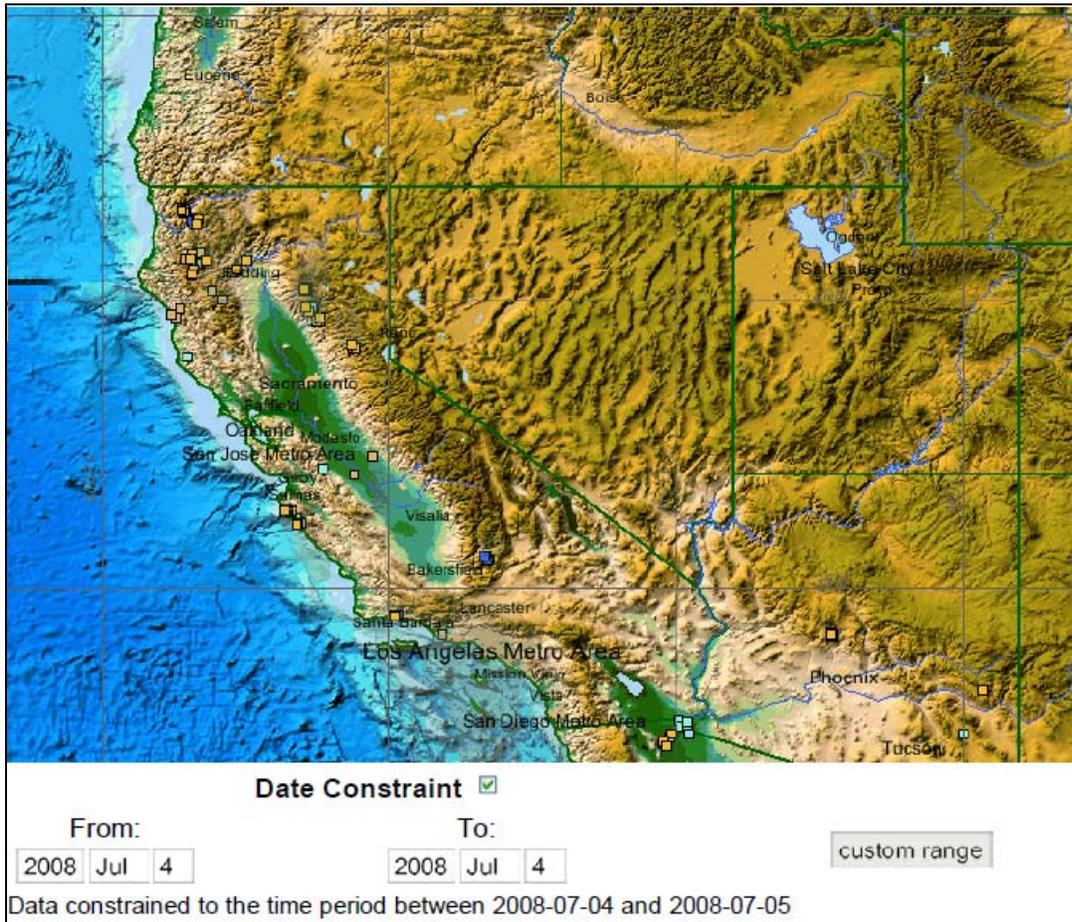


Friday July 4, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0145Z JULY 5, 2008**

California/Nevada:

Throughout most of California above 34N, especially in Santa Barbara County in the south, and most of northern California, dense smoke is covering these areas. Light smoke from yesterday's fires was seen earlier today over the central part of the state drifting east into far western Nevada.

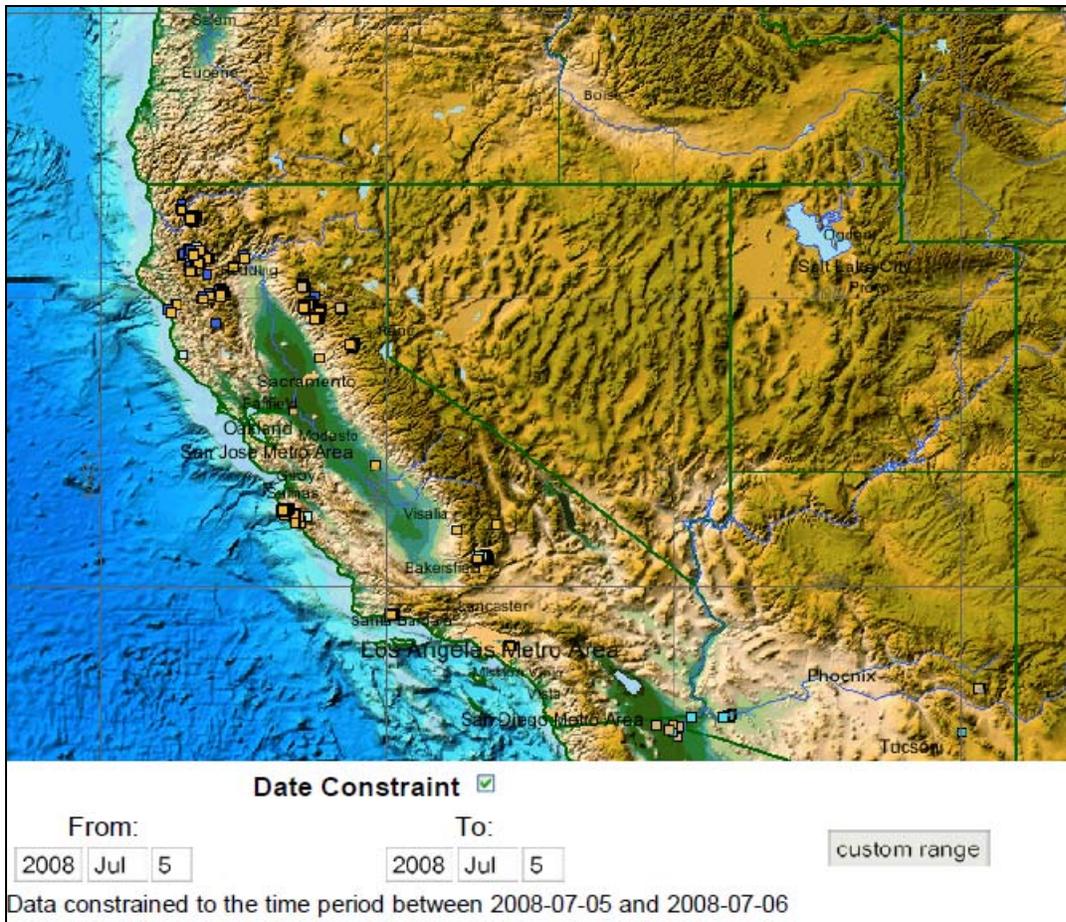


Saturday July 5, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0530Z JULY 6, 2008

California:

Clouds have moved into northern California making smoke detection in this area difficult. However, before the clouds moved in a broad area of smoke could be seen over much of northern California with the thickest smoke seen over the northern Sacramento Valley into the northern Sierra. The large fires in Monterey, northeast Kern and southern Santa Barbara counties continue to burn and produce large areas of thick smoke. Smoke from the Monterey county fire was moving to the south off the coast and also to the east into western San Benito county by sunset. Thick smoke from the northeast Kern county fire was moving to the northeast into southern Inyo county. Smoke from the Santa Barbara county fire was fanning out in both an east and west direction and covering much of the county. A burst of light smoke was seen from a fire in extreme southeast Los Angeles county that drifted to the east across extreme southwest San Bernardino.



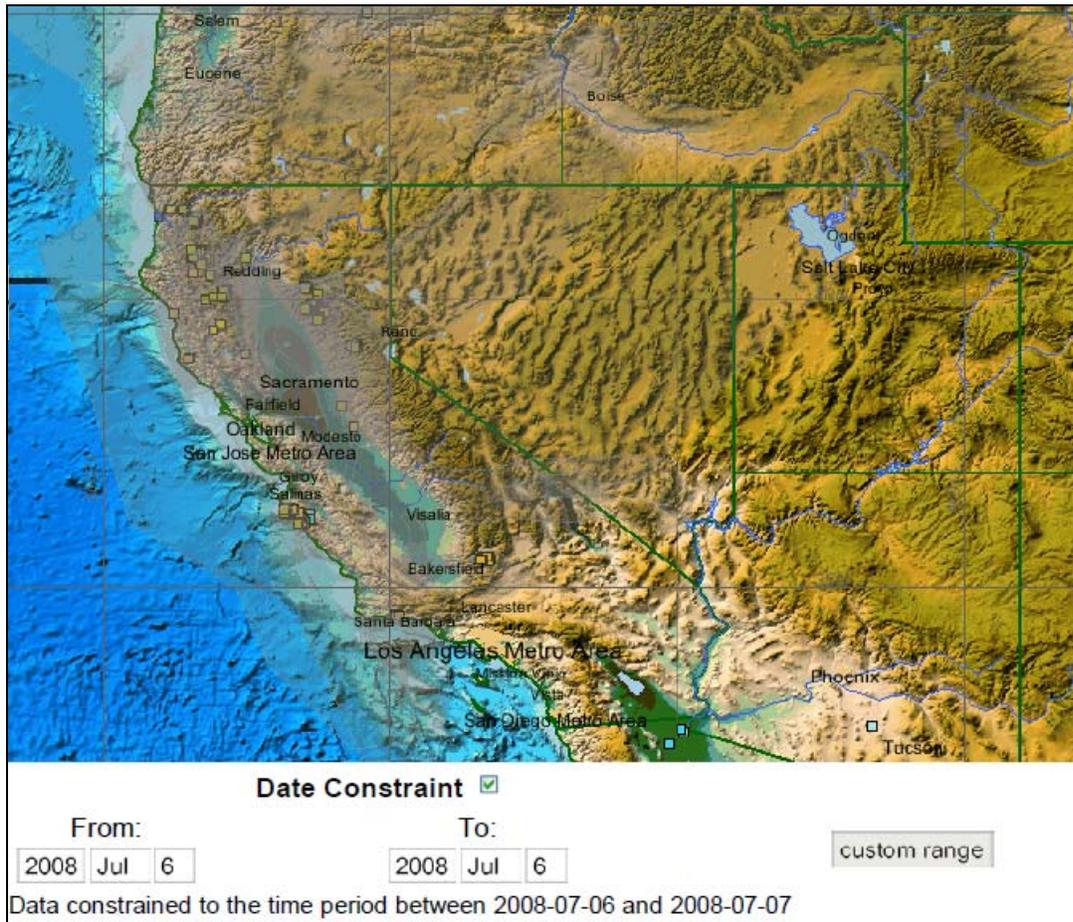
Sunday July 6, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0500Z JULY 7, 2008

Western US:

Most of the western one-fourth of the US is now covered in smoke from the California fires. Much of California is blanketed with recent smoke from the past day or two while Nevada, Oregon, Washington, Idaho and western Montana have had recirculated smoke from earlier in the week spread inland from the Pacific in the past day.

Smoke from the numerous fires burning across California covers much of northern and central California. The thickest smoke was seen in northern and central California in the Sacramento Valley and the western slopes of the Sierra Nevada across Tehama, Butte, Yuba, Nevada and nearby counties. Areas of thick smoke also covered much of Trinity, Humboldt and Mendocino counties. The smoke was drifting to the south and had reached northern Fresno county. Much of the smoke from the fires in Monterey and Santa Barbara counties has drifted south off the coast although some thin smoke was still seen moving to the east into the San Joaquin Valley. Dense smoke from the large fire in northeast Kern county was drifting south toward Los Angeles county by sunset.

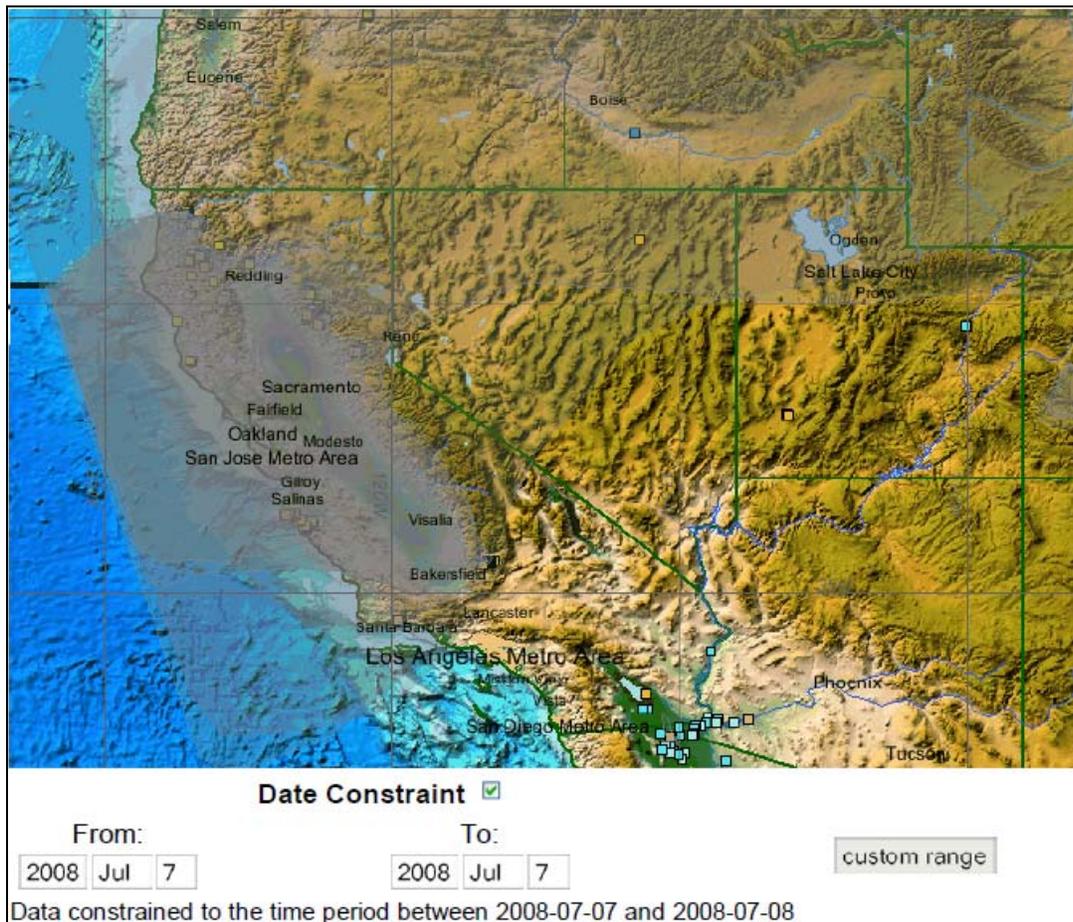


Monday July 7, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0300Z JULY 8, 2008**

California:

Numerous fires in northern California were emitting moderately dense to dense smoke which spread mainly in a south and southwestward direction during the afternoon. However, some of the smoke from the fires in northeastern California began to spread to the east-northeast as well toward the northern and central Sierras (including the Lake Tahoe/Reno area) during the late afternoon. The moderately dense to dense smoke covered much of northern and central California and also extended offshore. Moderately dense to dense smoke from the fires in Monterey County appeared to move more to the southwest and offshore during the day. Smoke from the fires in Santa Barbara County was not nearly as visible in satellite imagery as it had been in previous days. It also was difficult to see in the imagery due to low clouds along and off the coast and due to more smoke moving in from the east from the large Kern County fire. Of all the fires in California, the aforementioned Kern County fire in south central California was emitting the largest smoke plume. This very dense plume spread to the west during the day crossing over Santa Barbara and San Luis Obispo Counties.

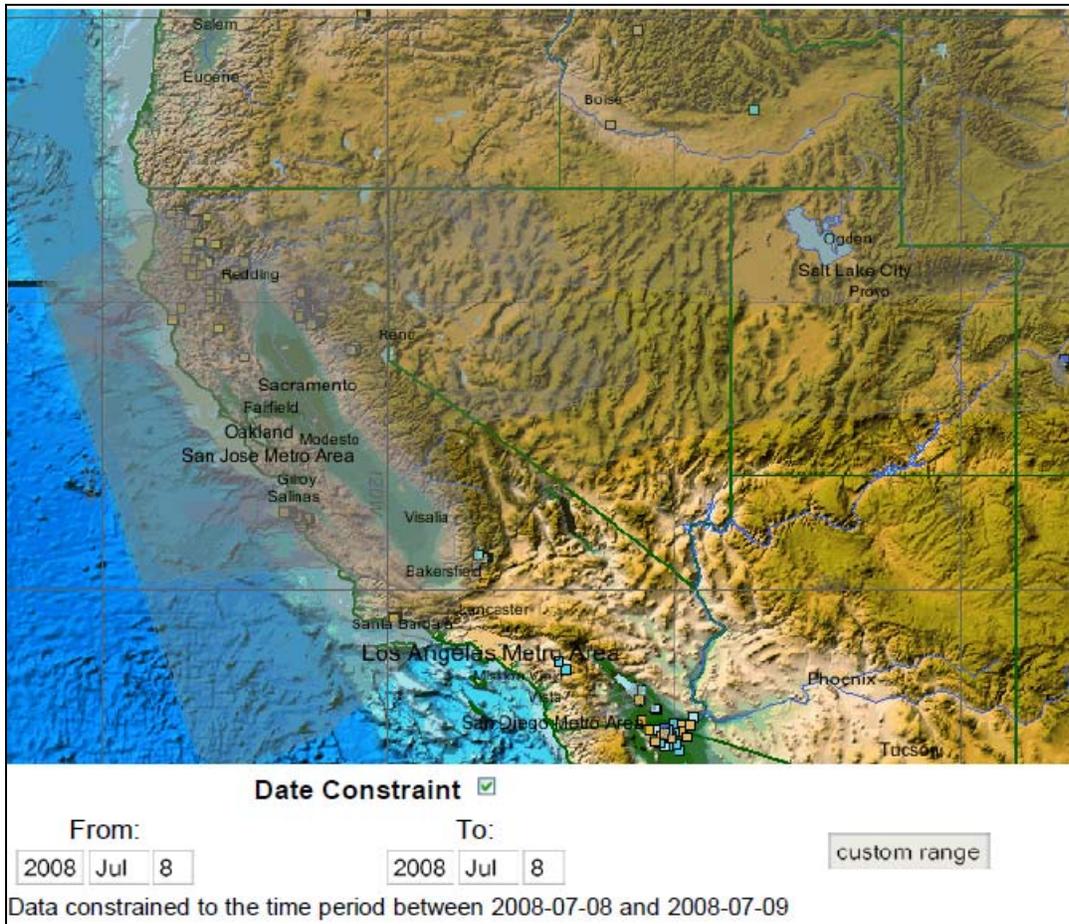


Tuesday July 8, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0300Z JULY 9, 2008

California:

Once again, a large amount of moderately dense to dense smoke was present across much of California during the day. The fires in northern California appeared to flare significantly up during the day resulting in a particularly dense area of smoke which covered much of northern California. Movement of this mass of dense smoke over northern California was erratic with some spreading in virtually all directions. Farther to the south, smoke from the Kern County fire was not as intense as yesterday with a somewhat more narrow band of moderately dense to dense smoke moving to the west. Smoke from the fire in Santa Barbara County moved mainly to the south and offshore. Details concerning the extent and density of the smoke was not easily obtained from satellite imagery due to the presence of low clouds along the coast and offshore. The Monterey County fire was still emitting a significant amount of moderately dense to dense smoke which initially moved offshore, but some of the smoke moved back inland later in the day.

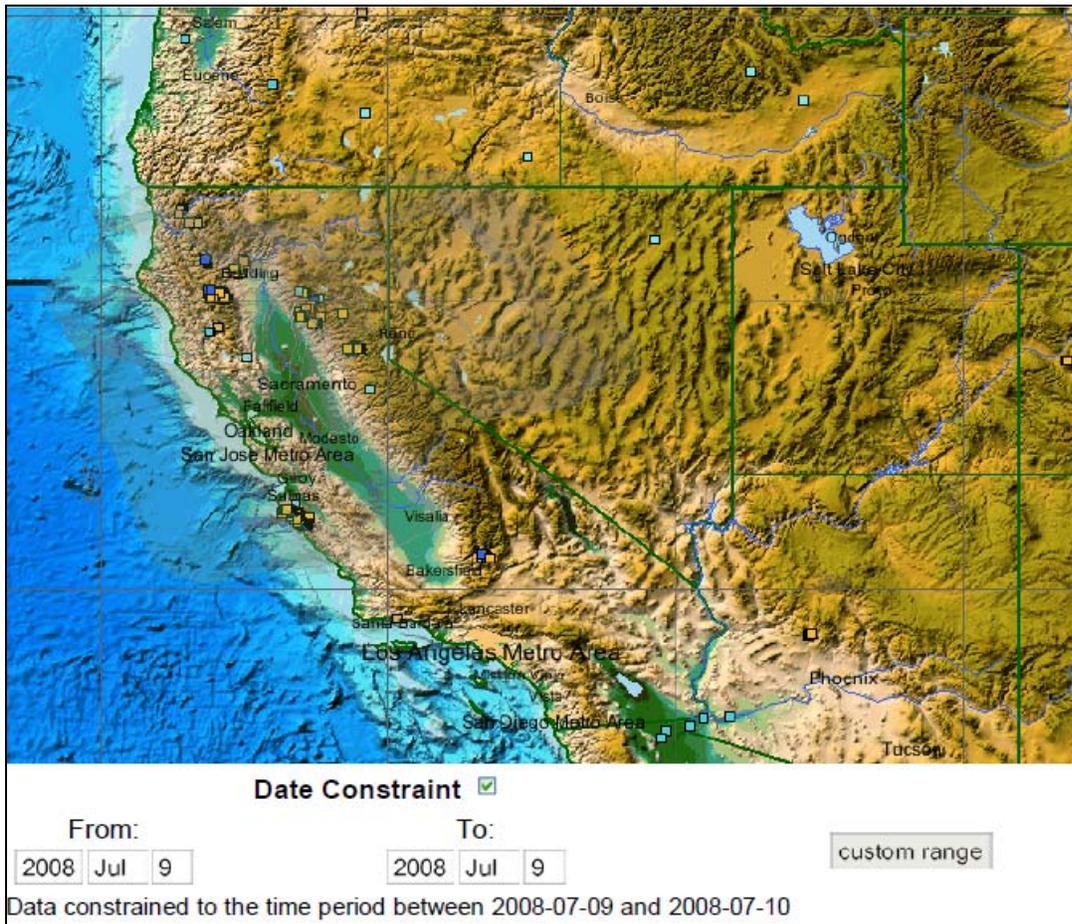


Wednesday July 9, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JULY 10, 2008

California:

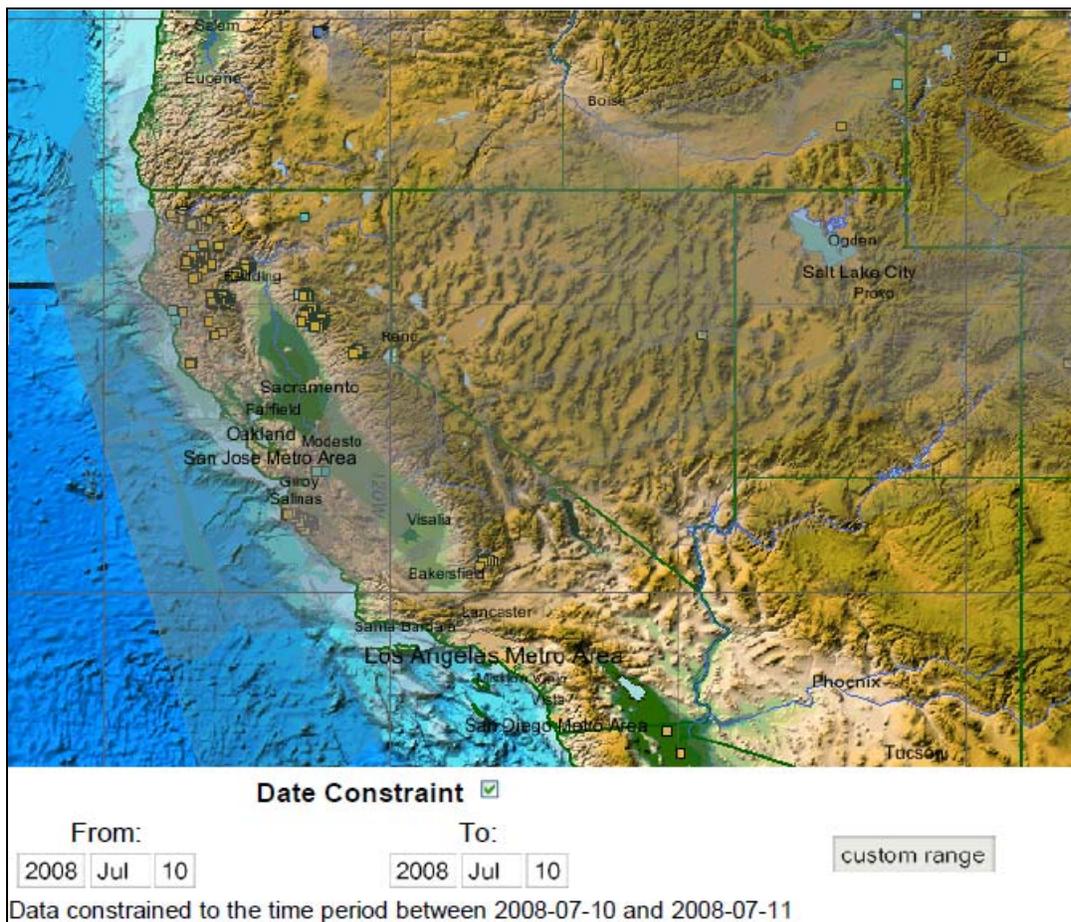
The very large wildfires burning across northern California (counties of Trinity/Tehama/Siskiyou/Shasta/Butte/Placer) are producing an extreme amount of smoke across the western US. Very dense smoke is seen moving east across most of northern California into most of Nevada and is beginning to reach parts of northern Utah. Moderately dense to dense smoke is also moving south along the northern coast of California and well out into the Pacific and is beginning to move into the central coast region of California and the Pacific. Moderately dense smoke lies across extreme northern California and Nevada, southeast Oregon, eastern Nevada and western Utah. An area of light smoke is continuing to move south across east central section of California and into southwest Nevada...mostly residual smoke. The wildfire (near Big Sur) in Monterrey County is emitting very dense smoke to the south SW, but the total distance from source cannot be determined due to low clouds along the coast and offshore. Residual smoke from the wildfire that moved east yesterday contributes to the overall very smoky conditions across central California and Nevada.



Thursday July 10, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0300Z JULY 11, 2008**

California/Nevada/Oregon/Idaho/Montana/Wyoming/Colorado:
Numerous large wildfires burning across northern California and Napa Valley, in the counties of Humboldt, Mendocino Trinity, Tehama, Siskiyou and Shasta are producing area of dense to very dense smoke south to southeast across parts of northern/central California. The wildfires burning in Plumas, Butte, Placer and parts of Shasta counties are emitting dense to very dense smoke east into Nevada, southern Idaho and western Utah. The wildfire in Monterrey county (Big Sur) is producing very dense smoke towards the east NE across central sections of California. Most of California's northern and central sections are covered with dense to very dense smoke. This dense to very dense smoke is reaching parts of southeast Oregon, northern and central sections of Nevada, across parts of southern Idaho (southwest to northeast direction), southwest Montana and northwest Wyoming. Moderately dense smoke reaches parts of central/southern Nevada, most of Utah (except for the southern region), southern Wyoming and a large section of northern and western Colorado. Light smoke stretches across southern regions of central California, southern Nevada and sections of northern Colorado. Overall.....Lots of smoke.

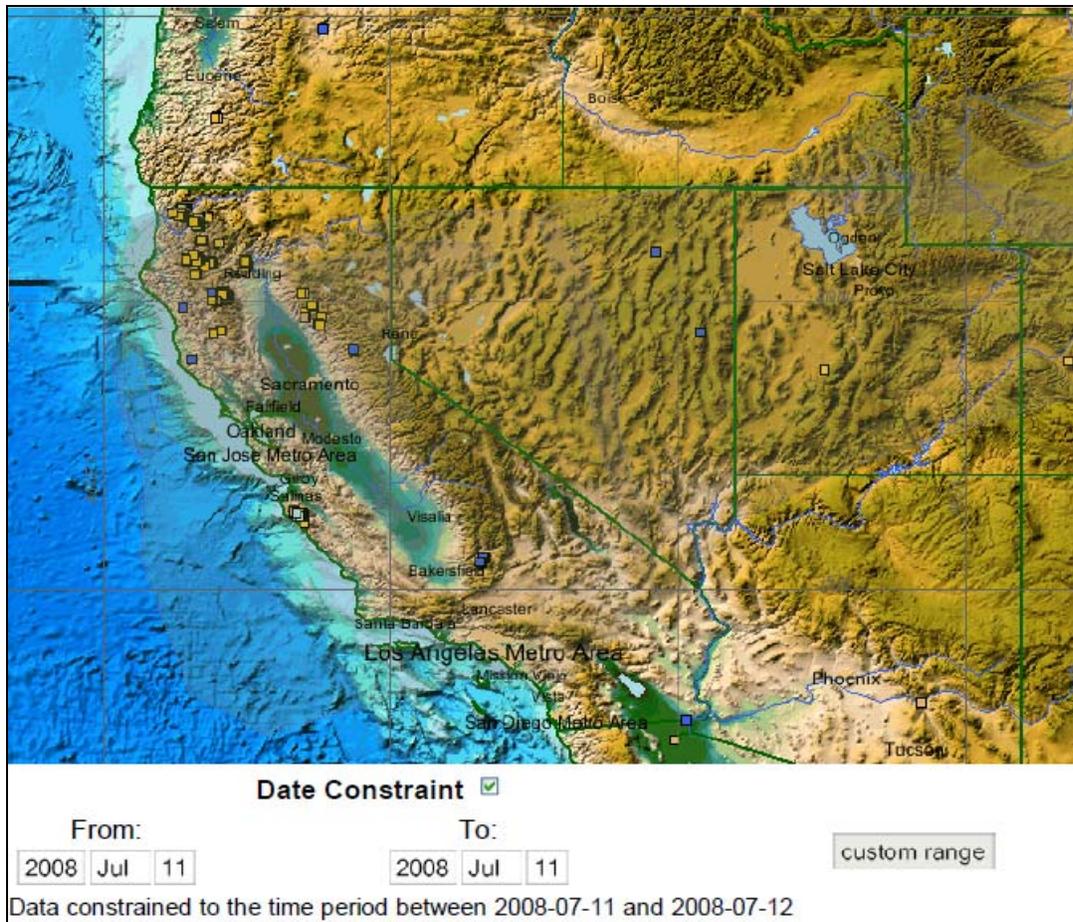


Friday July 11, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 12, 2008**

California Smoke:

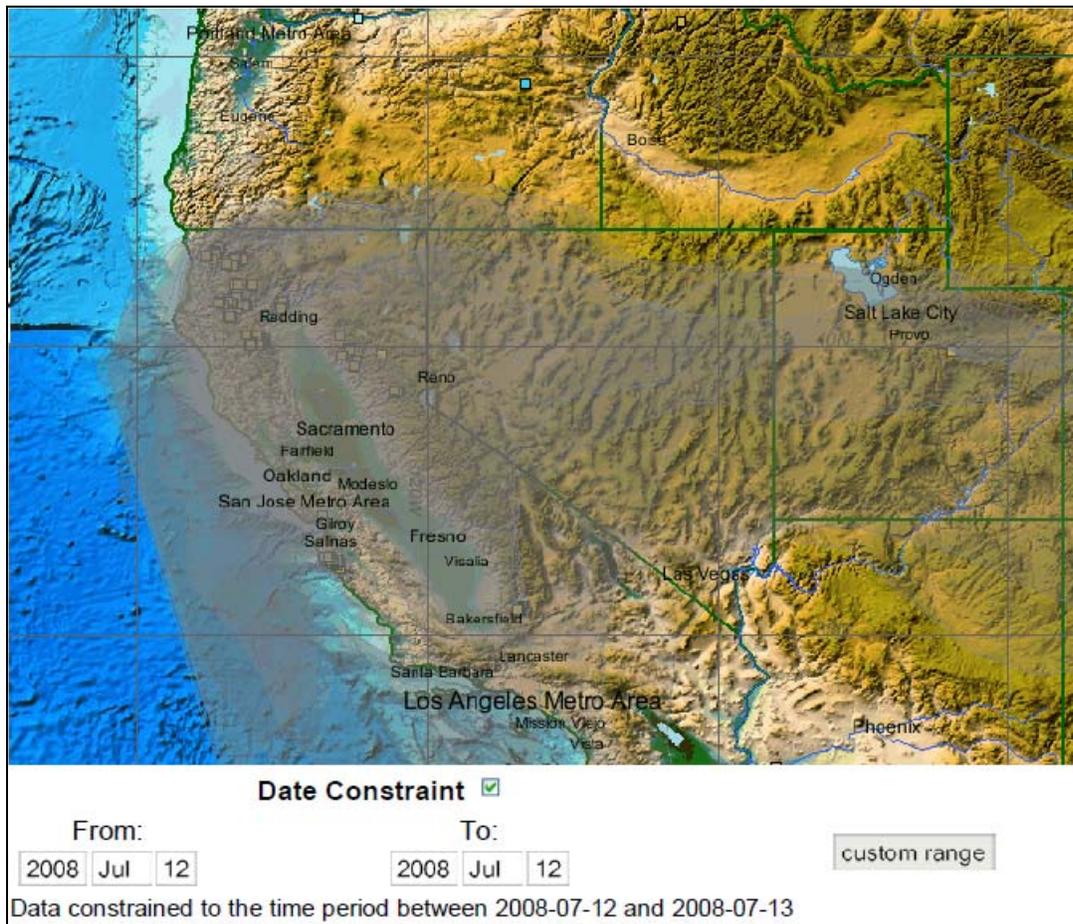
Heavy, dense smoke from the numerous fires burning in northern California covered much of the northern half of the state with light to moderate smoke across the southern half. Light smoke extended off the southern California coast southward to offshore of the Baja Peninsula. Moderate smoke was moving east across much of Nevada, the northern two-thirds of Utah, Colorado and Nebraska while lighter residual smoke continued eastward from there across the northern Plains, Upper Midwest, Great Lakes and northern Ohio Valley.



Saturday July 12, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0400Z JULY 13, 2008

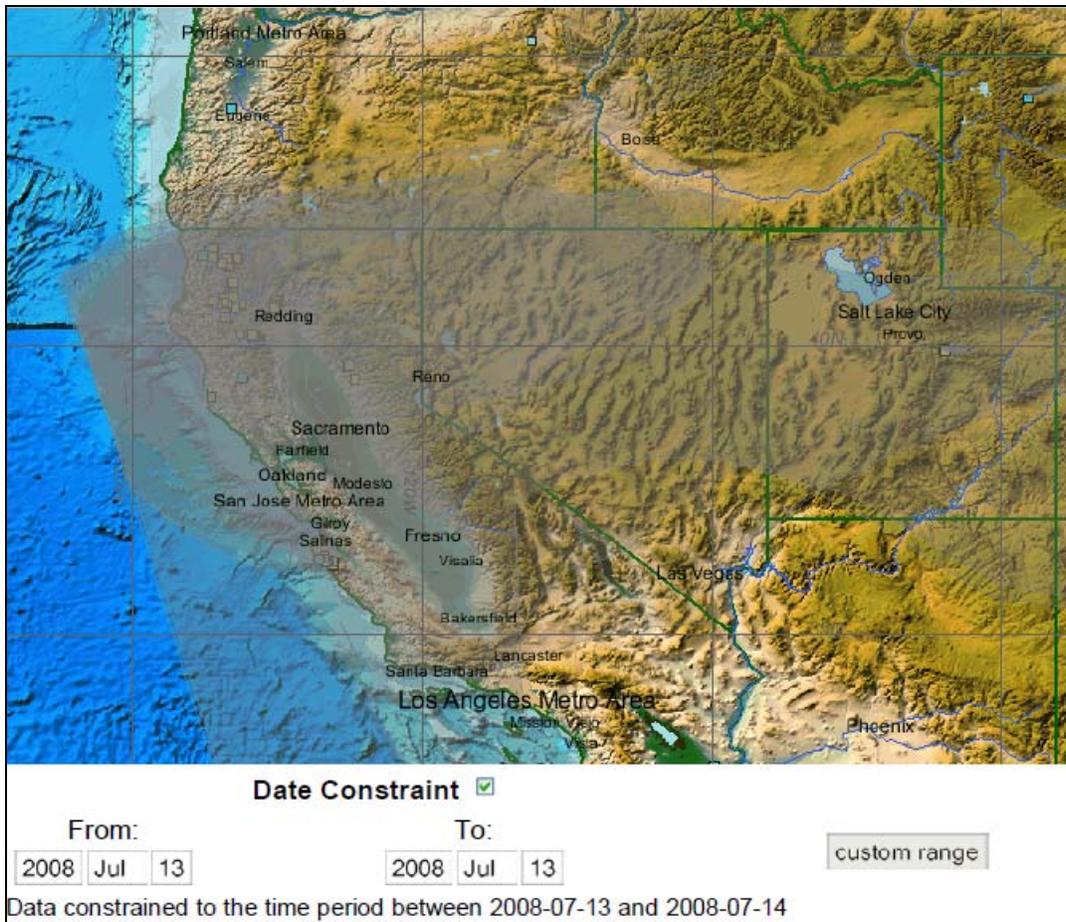
California/Great Basin/Central Rockies/Central Plains/Great Lakes:
Heavy, dense smoke from the numerous fires burning in northern California covered much of the northern and central portions of the state and extreme southern Oregon with light to moderate smoke over most of the remainder of southern California. The heavy to moderately dense smoke also extended eastward into much of northern and central Nevada, and northern Utah. Light to moderate smoke then continued eastward across Colorado and northern New Mexico, Kansas, Missouri, Illinois, Indiana, northwest Ohio and southeast Michigan. Moderate to dense smoke extended off much of the California coast southward across the Channel Islands to offshore of the Baja Peninsula.



Sunday July 13, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0400Z JULY 14, 2008**

California/Great Basin/Southwest:
Moderately dense to dense smoke blankets much of the northern two thirds of California, especially in the central valley and the northern third of the state. Moderately dense to dense smoke also spills over into southern Oregon and the northern half of Nevada. Dense smoke from the large blaze in Monterey county is lifting north along the coast. A broad area of smoke also extends off the entire California coast but is difficult to discern due to the presence of extensive low level clouds.

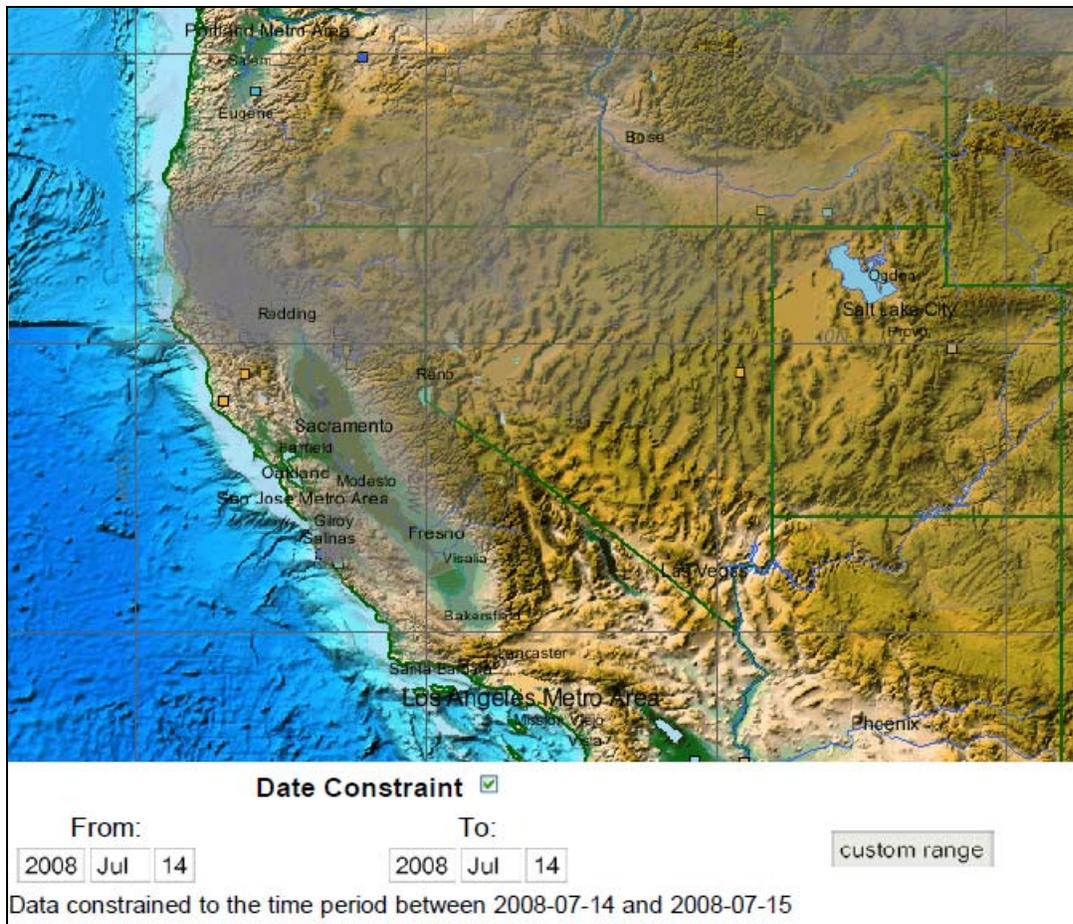


Monday July 14, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 15, 2008**

California:

The fires in northern California continue to emit dense smoke. For most of the day the smoke was moving to the north-northwest but this evening it has begun moving east. The smoke from the northern fires has entered into Curry, Josephine and Jackson counties in Oregon. The Basin complex in Monterey county continues to produce light to moderately dense smoke which is moving to the northeast reaching Santa Clara county. In the evening imagery, a thin haze can be seen over much of California which is likely a mix of remnant and fresh smoke.

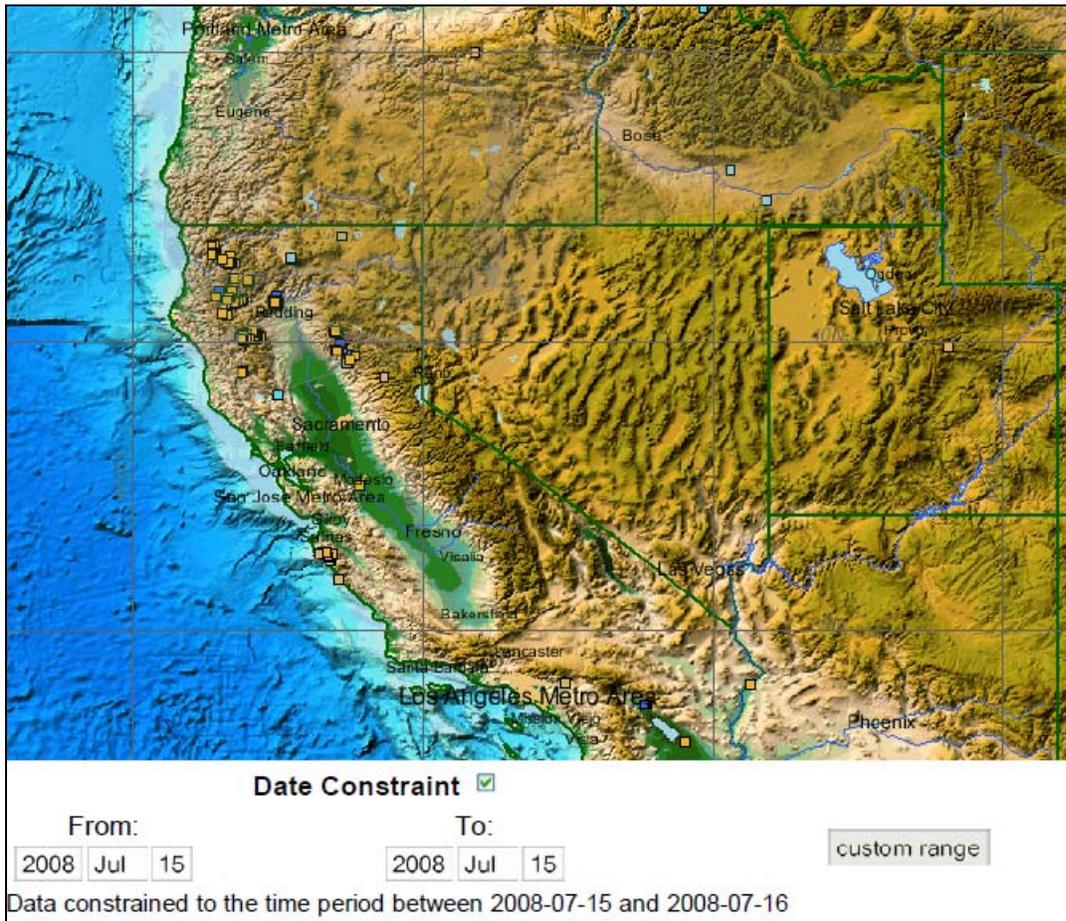


Tuesday July 15, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0230Z JULY 16, 2008**

California/western US:

The wildfires burning in northern California and in Monterrey County (Big Sur) are producing a large area of very dense smoke that stretches north and east into northern California, northwest Nevada, and most of Oregon. Moderately dense smoke stretches across southeast Washington State (combining with smoke from the fire in Yakima county) and moving into Idaho and western Montana where it becomes lighter. Some light to moderately dense smoke stretches across central and eastern California and northern Nevada. The wildfire in Monterrey county is emitting very dense smoke north/east/south from the source of the fire and is reaching the central portion of the state and beginning to run into the light to moderately dense smoke located there from the northern California fires.

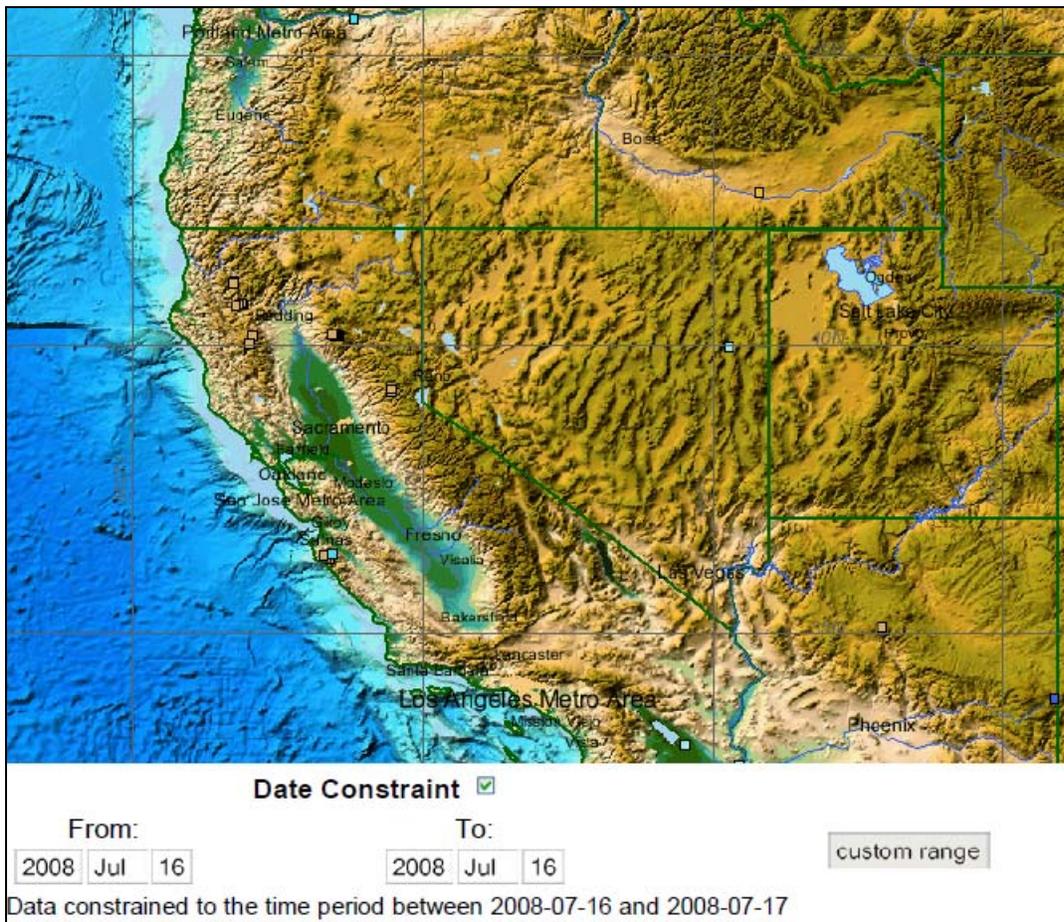


Wednesday July 16, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 17, 2008**

California/northwestern US:

The fires located in northern California continue to burn producing moderately dense to dense smoke. The smoke from the fires is moving to the northeast through southeastern Oregon and northwestern Nevada where it continues through Idaho and into Montana. The Basin Complex in Monterey county continues to emit moderately dense to dense smoke which is staying localized within the county. The majority of the state is blanketed in light remnant smoke.



Thursday July 17, 2008

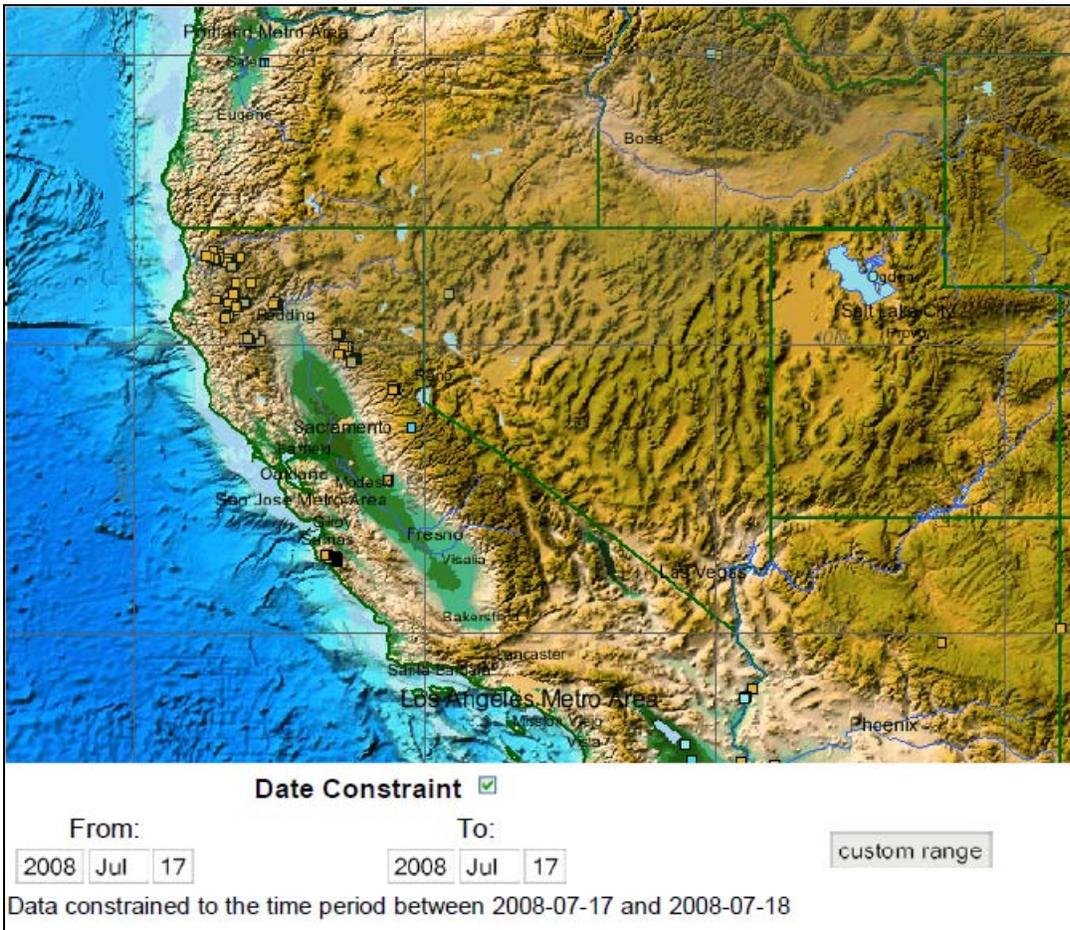
**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 18, 2008**

Mid and Southern California:

The Basin Complex in Monterey county continues to generate dense smoke which is moving to the south and is in the northern portion of San Luis Obispo county. At the border of California and Arizona in Imperial county CA, several fires are emanating light smoke which is traveling to the northeast into Lapaz county Arizona.

Northern California:

The fires in Northern CA continue to produce dense smoke. Today the smoke was mainly moving to the east. Dense smoke covers the area surrounding the fires near the Pacific coast with moderately dense smoke extending over northeastern CA through northern Nevada, southeastern Oregon and central Idaho. Light smoke from the northern CA fires can be seen through Montana, Wyoming and the Dakotas.



Friday July 18, 2008

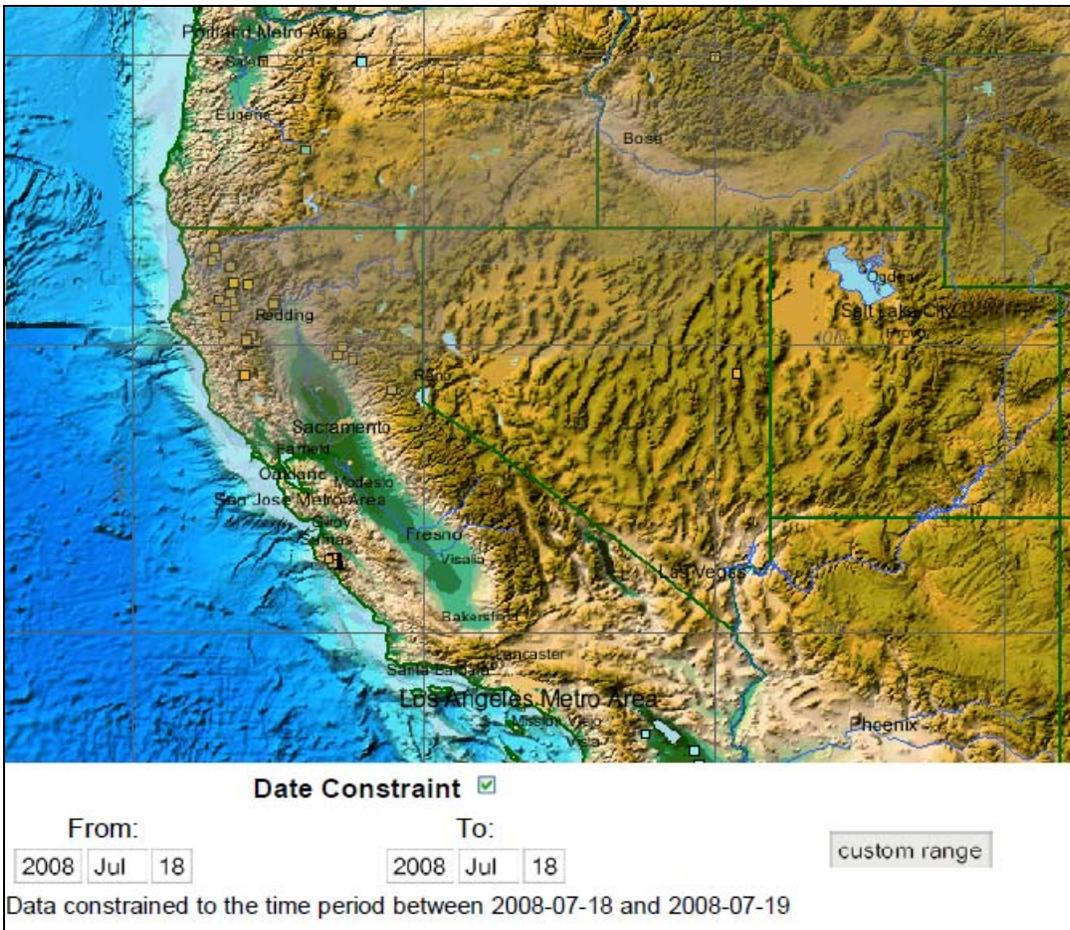
**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0130Z JULY 19, 2008**

Mid and Southern California:

The Basin Complex in Monterey county generated a plume of moderate to dense smoke that extended south over the ocean.

Northern California:

The fires in Northern CA continue to produce dense smoke near the sources with moderate smoke extending east-northeast across northern Nevada, southeast Oregon and southern Idaho. Additional light smoke extended much farther...over the central and northern Plains, the Upper Midwest and the Great Lakes.

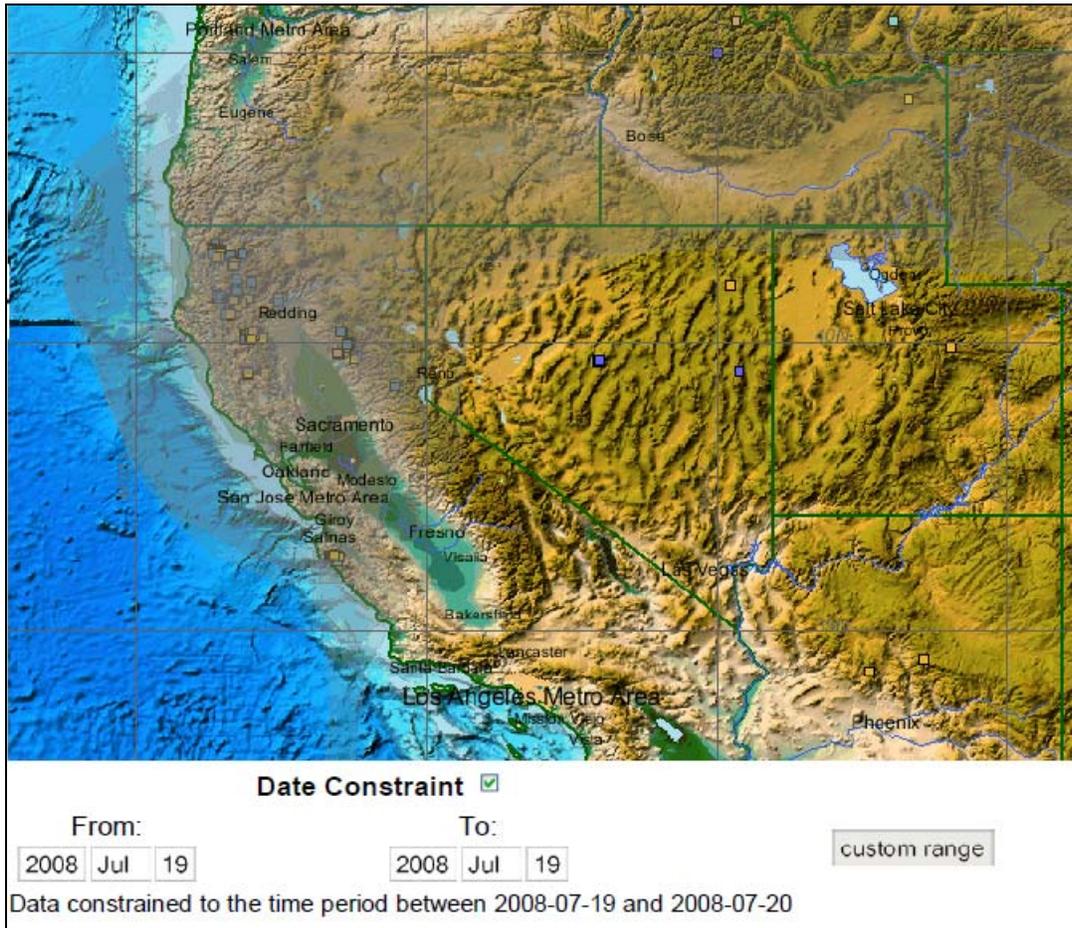


Saturday July 19, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0215Z JULY 20, 2008

Impact of California Fires:

Moderate to dense smoke stretched northward from the Basin Complex in Monterey County into northern California, the southern half of Oregon and extreme northwest Nevada. An extensive area of light smoke covered the north-central Rockies, the north-central Plains and the Midwest.

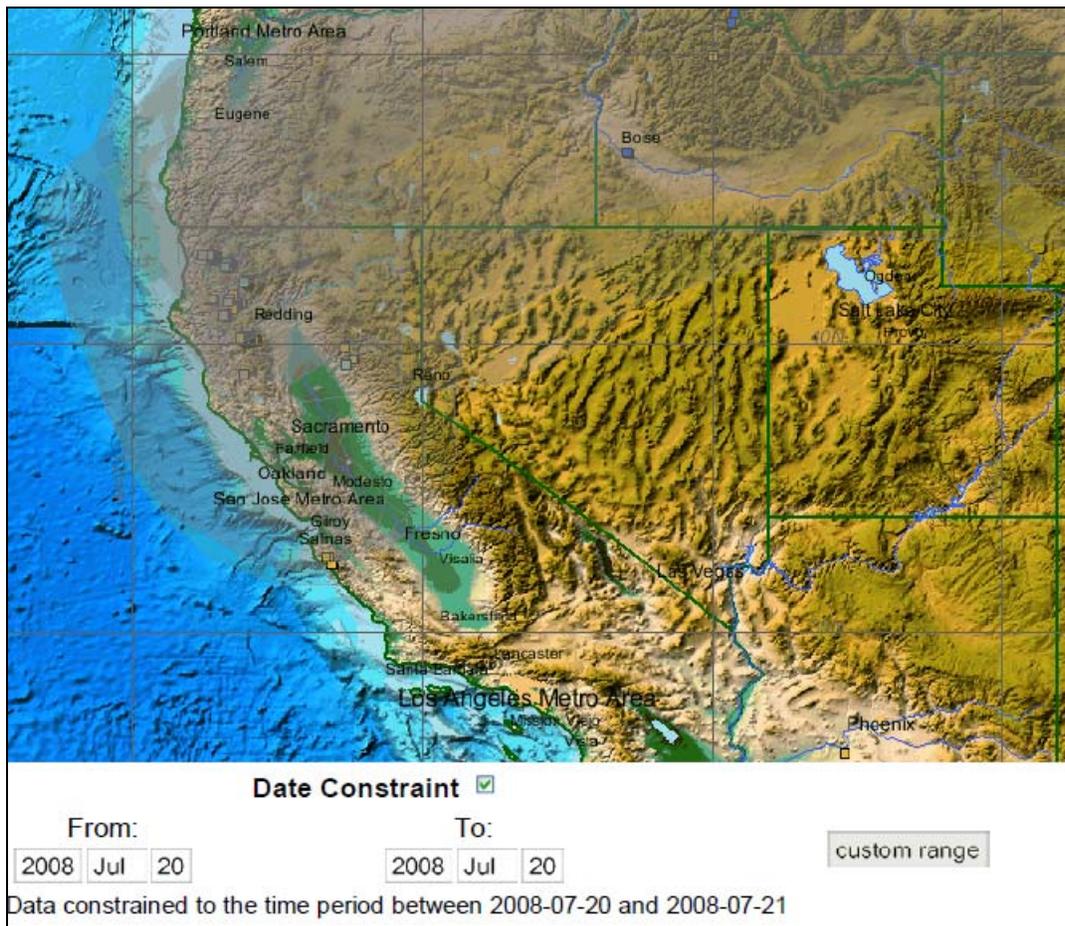


Sunday July 20, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 21, 2008

Impact of California Fires:

Moderate to heavy smoke extended from northern California, across southern and western Oregon into southern and eastern Washington. Large area of light smoke stretched farther east covering portions of Idaho, Montana and the Dakotas.

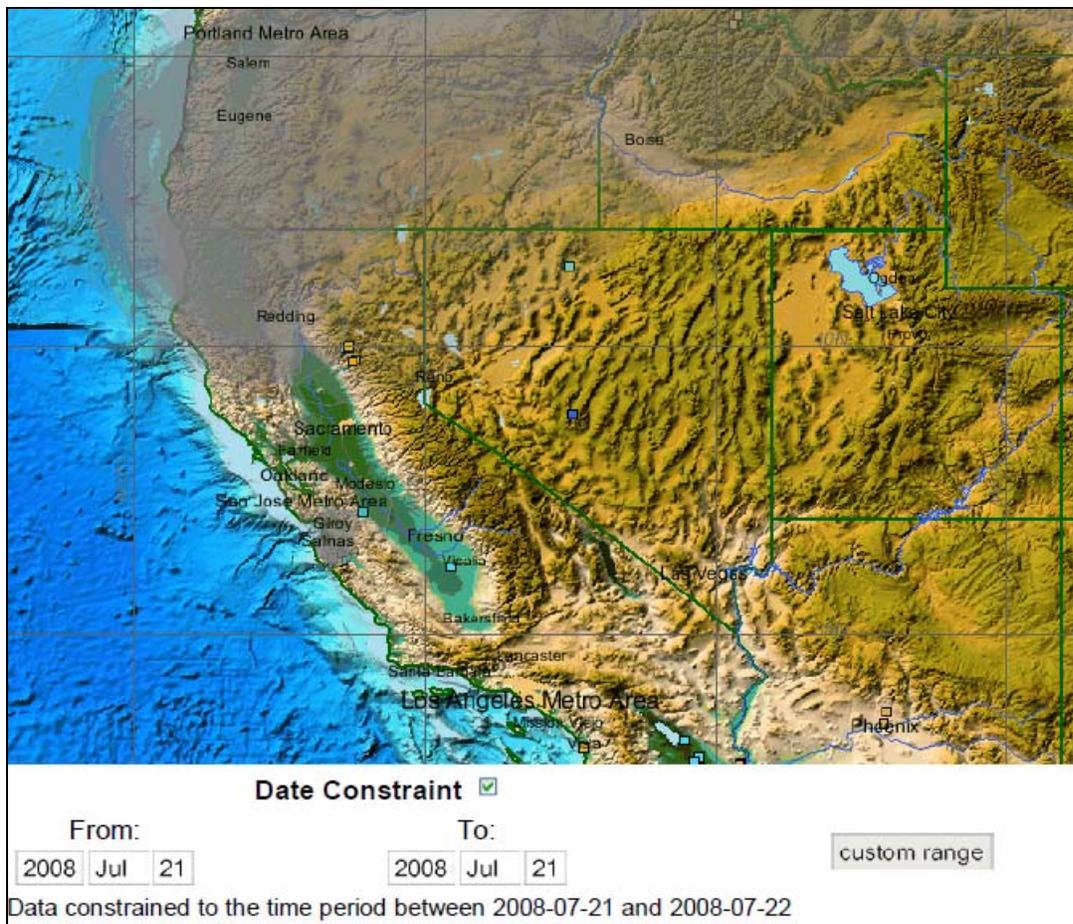


Monday July 21, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 22, 2008**

Effect of northern California fires:

Dense smoke from the fires in northern California is moving offshore into the Pacific but then it turns back east entering the US through northern Oregon and southern Washington. The smoke remains moderately dense as it moves through the southeastern corner of Washington, northern Idaho and northern Montana. The smoke begins to thin but can still be seen blanketing most of Alberta, southern Saskatchewan and the Dakotas. The Basin Complex in Monterey county is generating moderately dense to dense smoke which is moving north into Merced county.

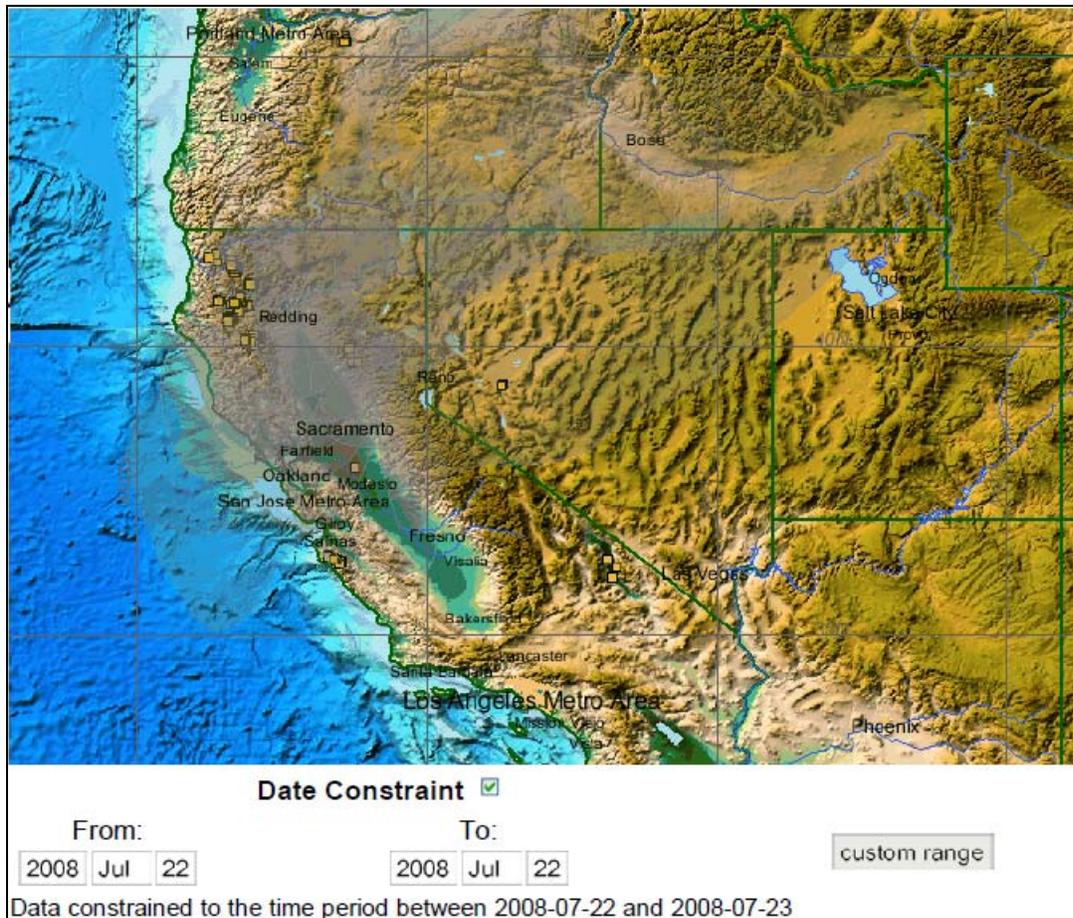


Tuesday July 22, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0145Z JULY 23, 2008**

Northern California fires:

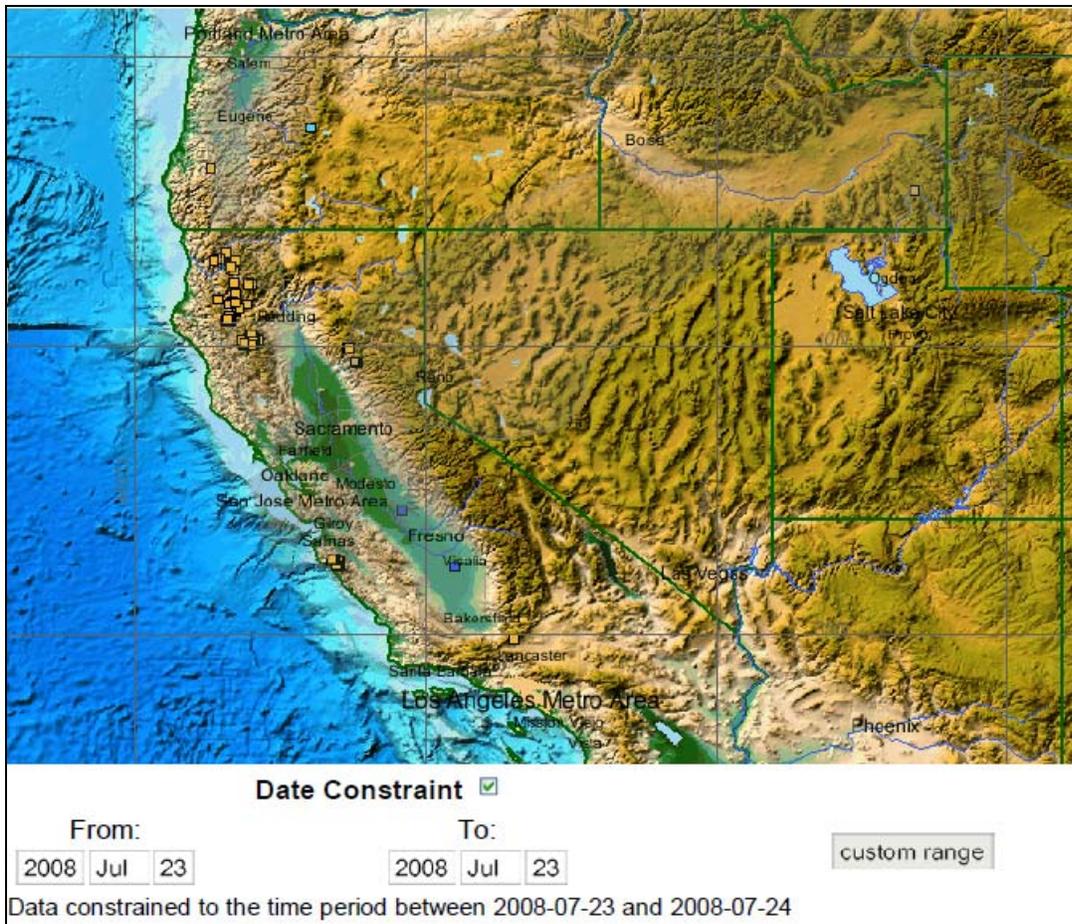
Moderately dense to dense smoke is currently drifting off to the east. However, as the plumes move off to the east, they eventually turn south as the wind changes direction. The San Francisco metro area is being affected from the fires the most; the smoke is moderately dense through the Bay Area, and eventually, the smoke moves offshore over the Pacific Ocean. In addition, lighter smoke from the fires earlier today has made its way into eastern Oregon, eastern Washington, and southern Canada (British Columbia and Alberta).



Wednesday July 23, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0230Z JULY 24, 2008

Northern California fires/Northwest US:
Wildfires are producing moderately dense to dense smoke, and is covering most of the northern third of California. Due to weak steering currents, the smoke is moving off in all directions. However, the smoke that is drifting to the north and east has made its way through southeast Oregon, Idaho, northwest Nevada, western Montana and southern Canada. In addition, in Monterey County, a moderately dense to dense smoke plume is drifting to the south and eventually moves out over the Pacific.

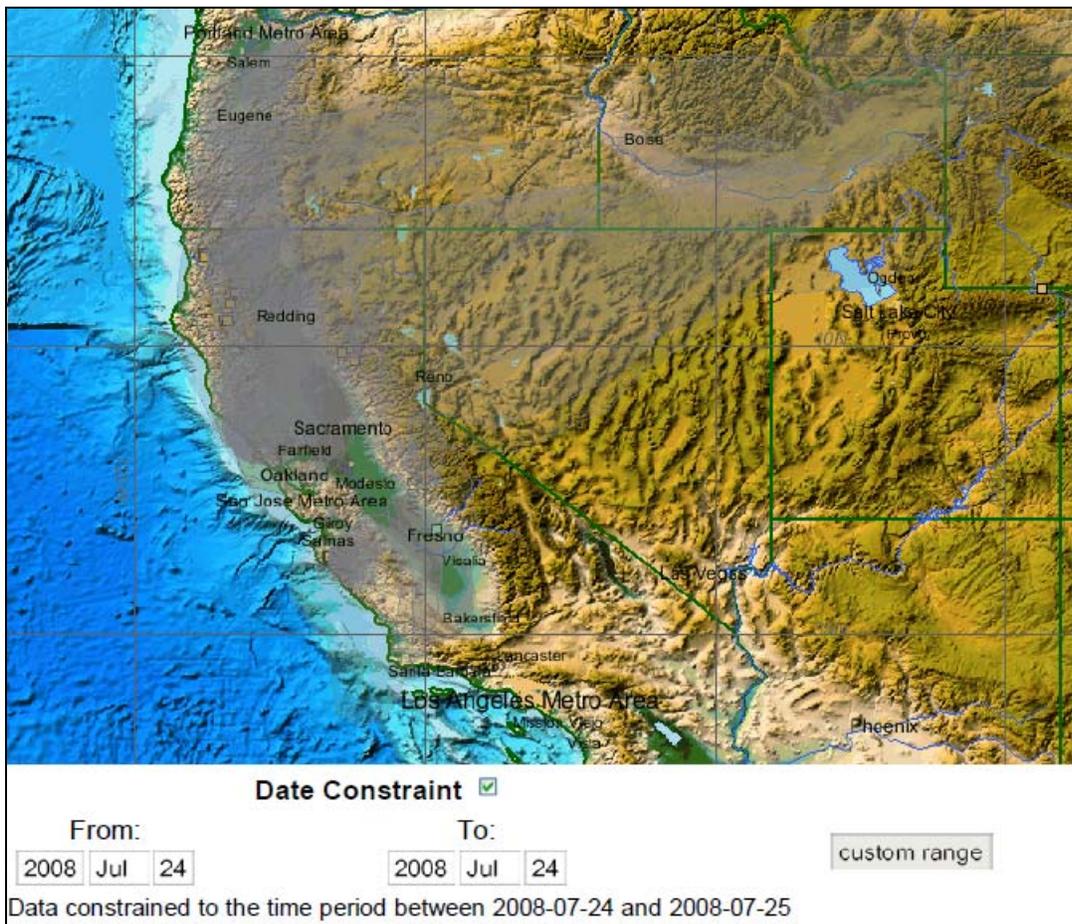


Thursday July 24, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0140Z JULY 25, 2008**

Northern California:

Wildfires in the northern third of the state are producing moderately dense to dense smoke plumes in the upper San Joaquin and Napa Valleys. Most of this smoke is drifting north and east into southwestern Oregon. In addition, the extent of the smoke appears to parallel 123 degrees West, from just north of San Francisco, north to Portland, Oregon. Also, lighter smoke has drifted into northern Nevada, eastern Oregon, southern Idaho, southern Montana, and northern Wyoming. Lastly, a moderately dense to dense smoke plume in Monterey County is moving to the east, and extends into San Benito County.

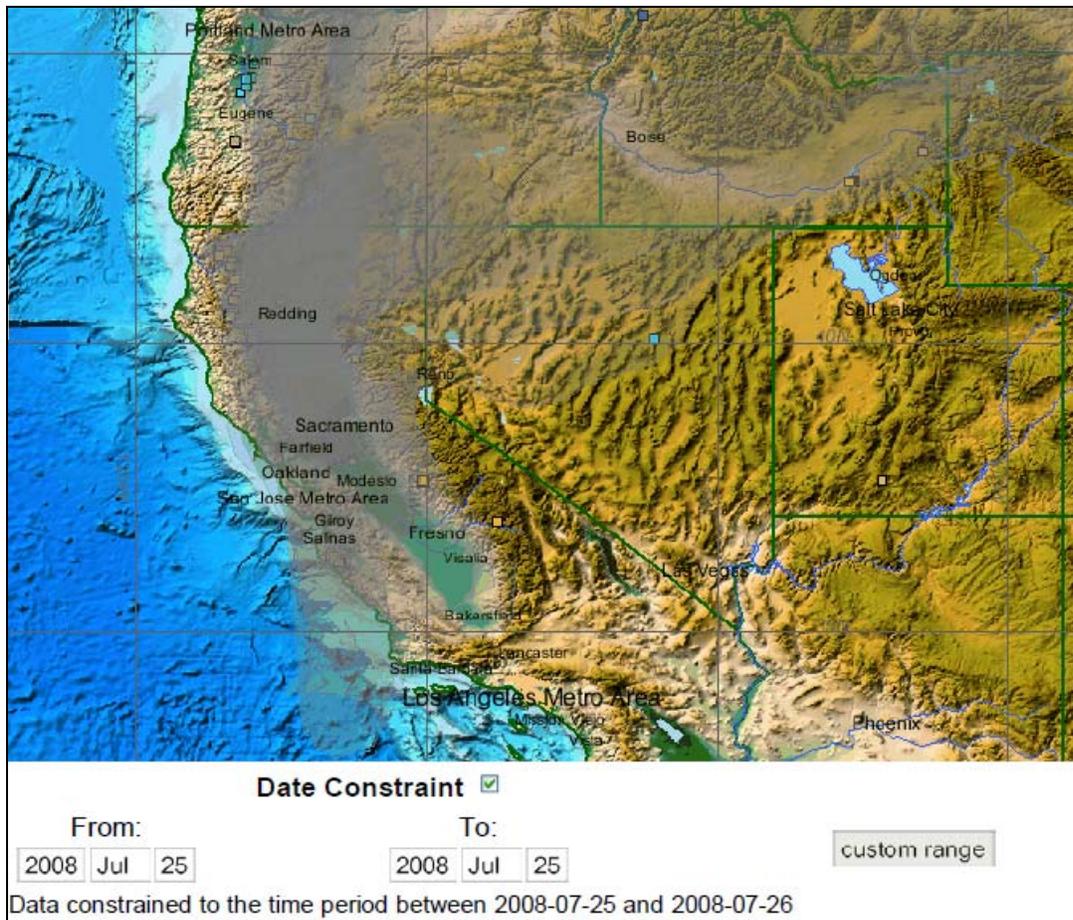


Thursday, July 25, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 1530Z JULY 25, 2008

Northern California:

Wildfires in the northern third of the state are producing moderately dense to dense smoke in the Sacramento Valley that is then being pulled north and trapped west of the Cascade mountain range all the way into central Washington state. Some of the smoke is also drifting south across the Napa Valley and San Francisco Bay where it joined up with smoke from the fire in Monterey Country that then becomes mixed in with marine clouds that made it hard to follow.

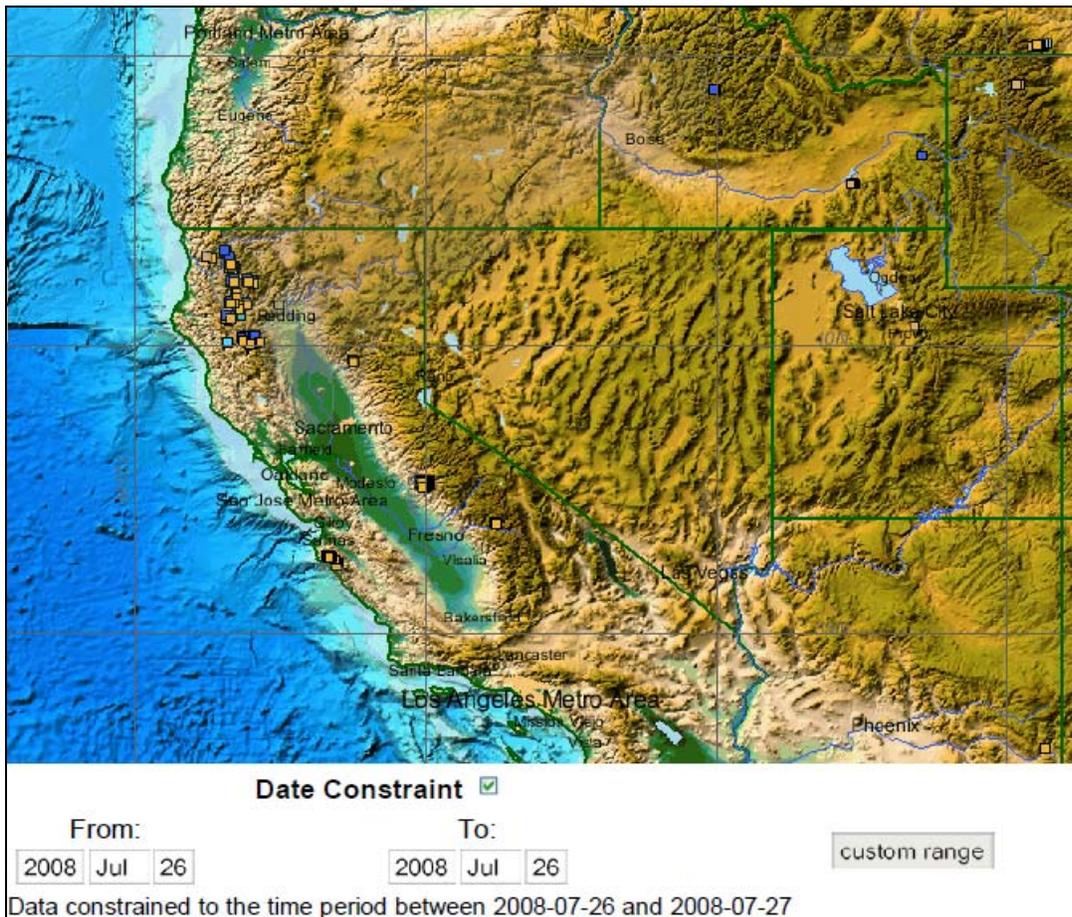


Saturday July 26, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 27, 2008**

California fires:

Wildfires in the northern third of the state are producing moderately dense to dense smoke, drifting off to the northeast. Moderately dense smoke from all the plumes are extending into southeastern Oregon, and northwest Nevada, while lighter smoke is found further to the northeast into central Idaho and western Montana. In Monterey County, a moderately dense to dense smoke plume extends to the southwest out over the Pacific Ocean. Lastly, a very large fire popped up earlier this evening in Mariposa County, in the central part of the state. The dense smoke plume is generally moving off to the northeast and extends to the California/Nevada border, some 135km from the source.

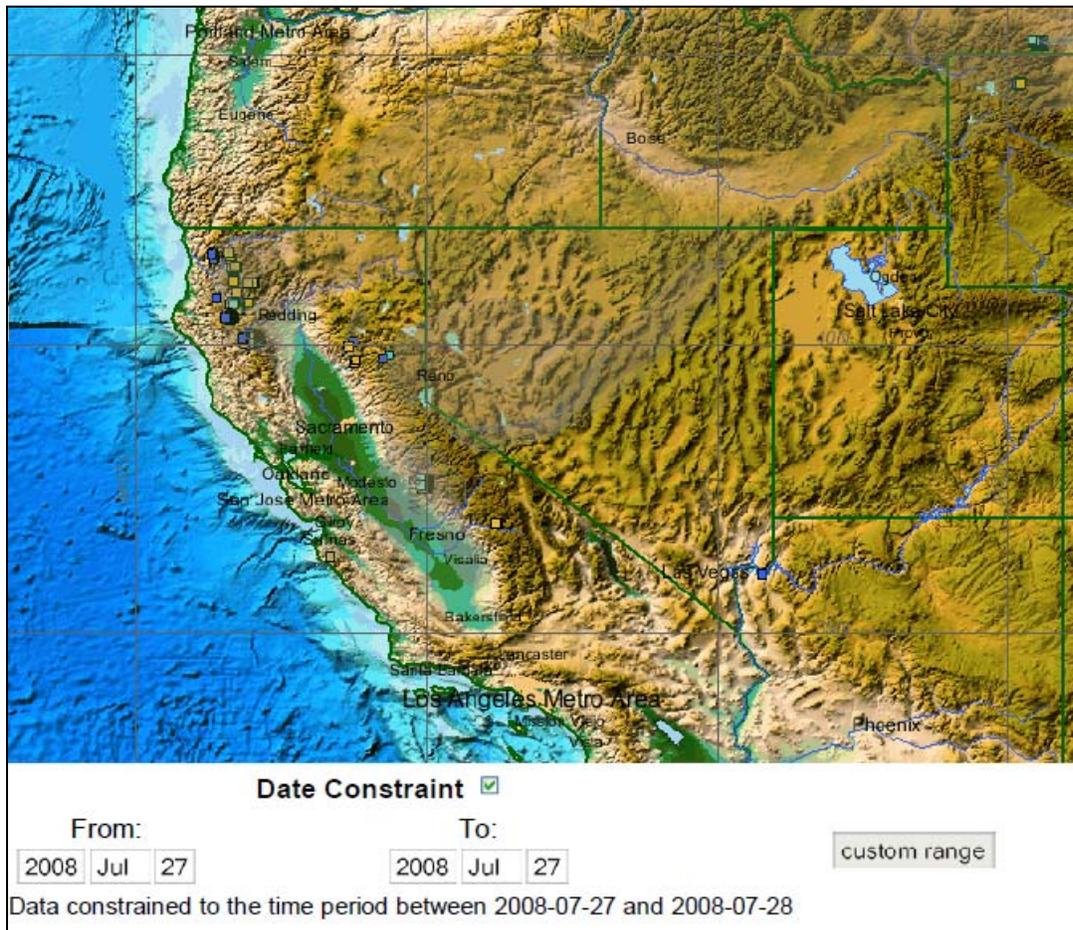


Sunday July 27, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 28, 2008**

California fires:

Moderately dense to dense smoke covers much of northern California as wildfires continue to burn and emit smoke. Moderately dense smoke from these fires also cover southeastern Oregon, western Nevada, and southwestern Idaho. The moderately dense smoke in western Nevada is caused by the fire in Mariposa County, in central California, which started burning in earnest last evening. The source, which is found near Yosemite National Park, is currently emitting dense smoke, moving off to the north. In addition, light smoke from all the fires in California is found in Idaho, Montana, northern Wyoming, and the Dakotas.

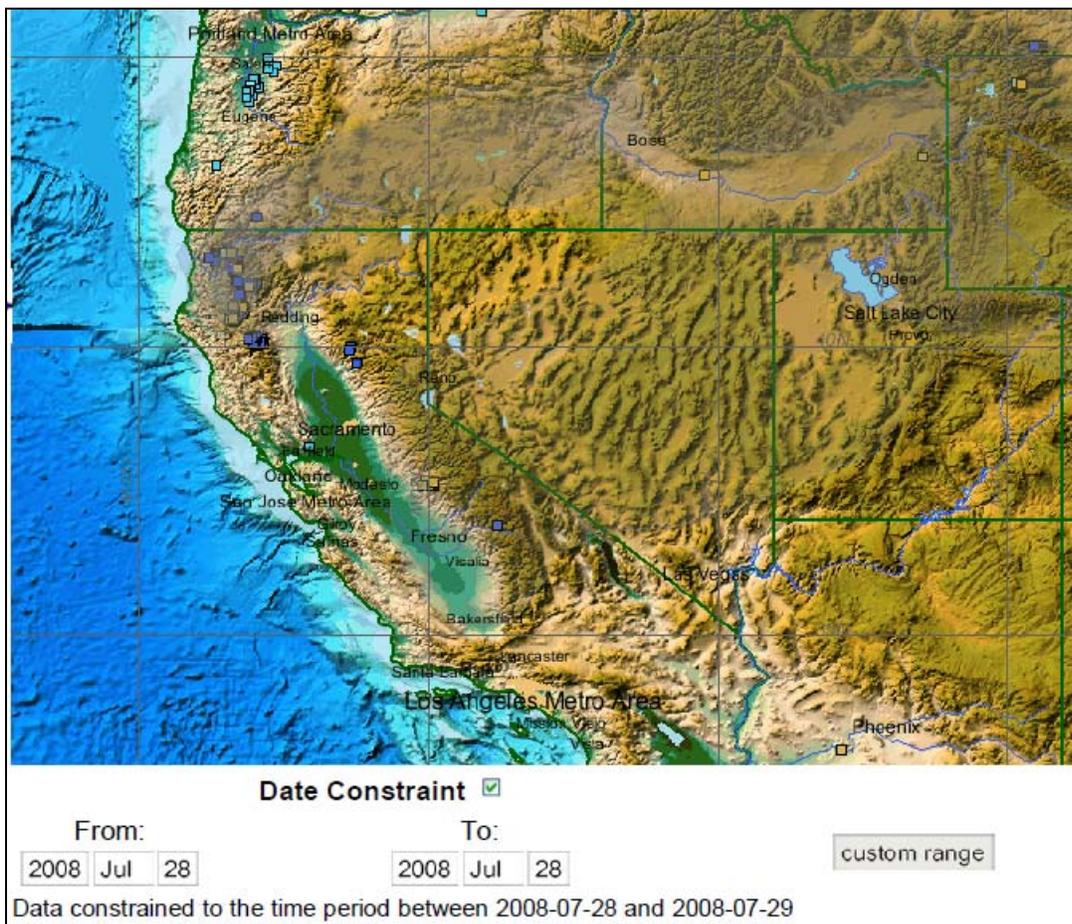


Monday July 28, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z JULY 29, 2008

Extent of California fires:

Moderately dense to dense smoke extends from the fires in northern California through southern Oregon, central Idaho, northern Wyoming and southern Montana. Light smoke from the northern California fires can be seen through Nevada, Utah, Colorado, the Dakotas, Nebraska, Iowa, Minnesota, Michigan, Wisconsin, Illinois, Indiana and Ohio. The fire located in central Mariposa County is emanating moderately dense to dense smoke which is moving mainly to the south reaching Kern County.

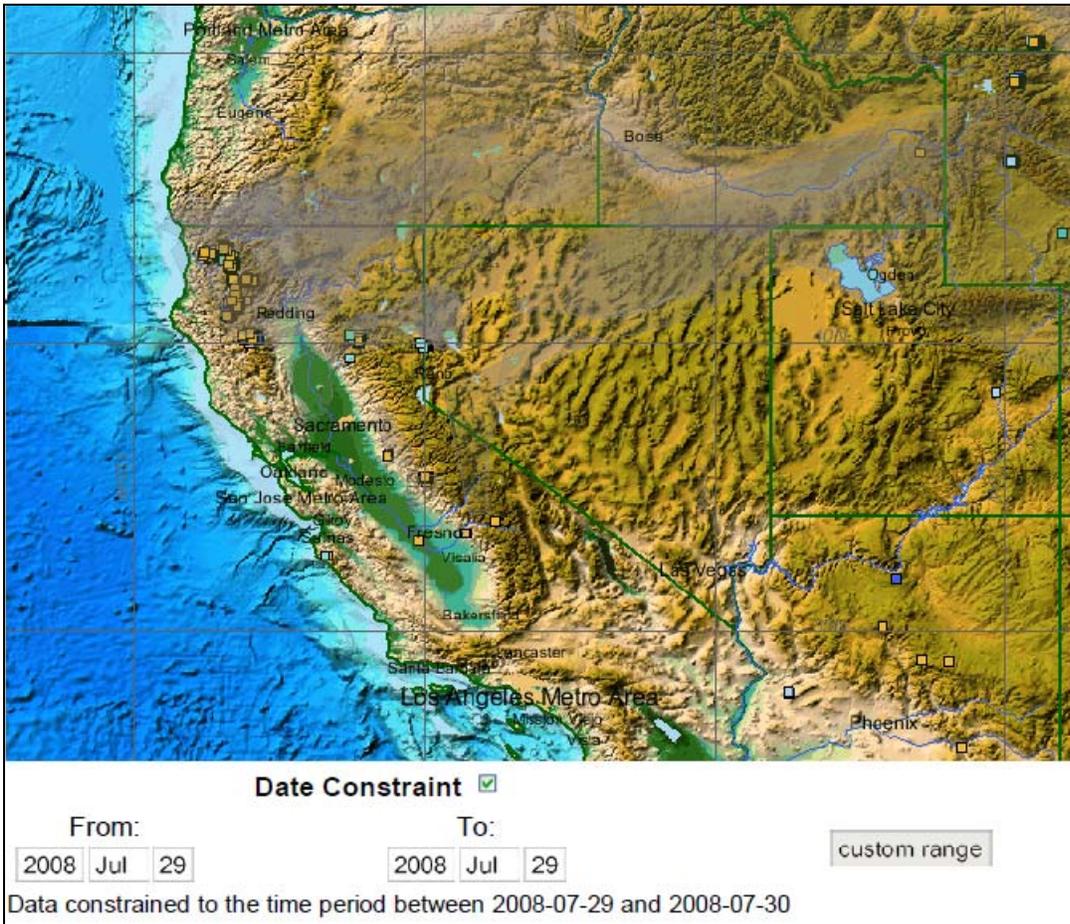


Tuesday July 29, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z JULY 30, 2008**

General extent of smoke from northern California and Canadian fires:
A large portion of the United States is being blanketed by light smoke from the northern California fires and the Canadian fires. The states affected include: CA, OR, WA, ID, MT, WY, CO, NV, ND, SD, NE, KS, IA, IN, IL, OH, KY, PA, WV, VA, MD, DE, NY and MA. The smoke also extends north into British Columbia, Alberta and Saskatchewan.

California:
The fires in northern California continue to emit moderately dense to dense smoke. The densest of this smoke is moving to the north and remains within northern California and Oregon. The extent of the dispersed/lighter smoke from these fires is described above. The Telegraph fire in Mariposa County continues to emit moderately dense to dense smoke which is moving both northwest and south. The southern portion of the smoke reaches Kern County while the northern portion enters into Nevada covering over 200km and reaching Churchill County. Smoke can also be seen coming from the northwestern portion of Monterey county fanning out to the east.

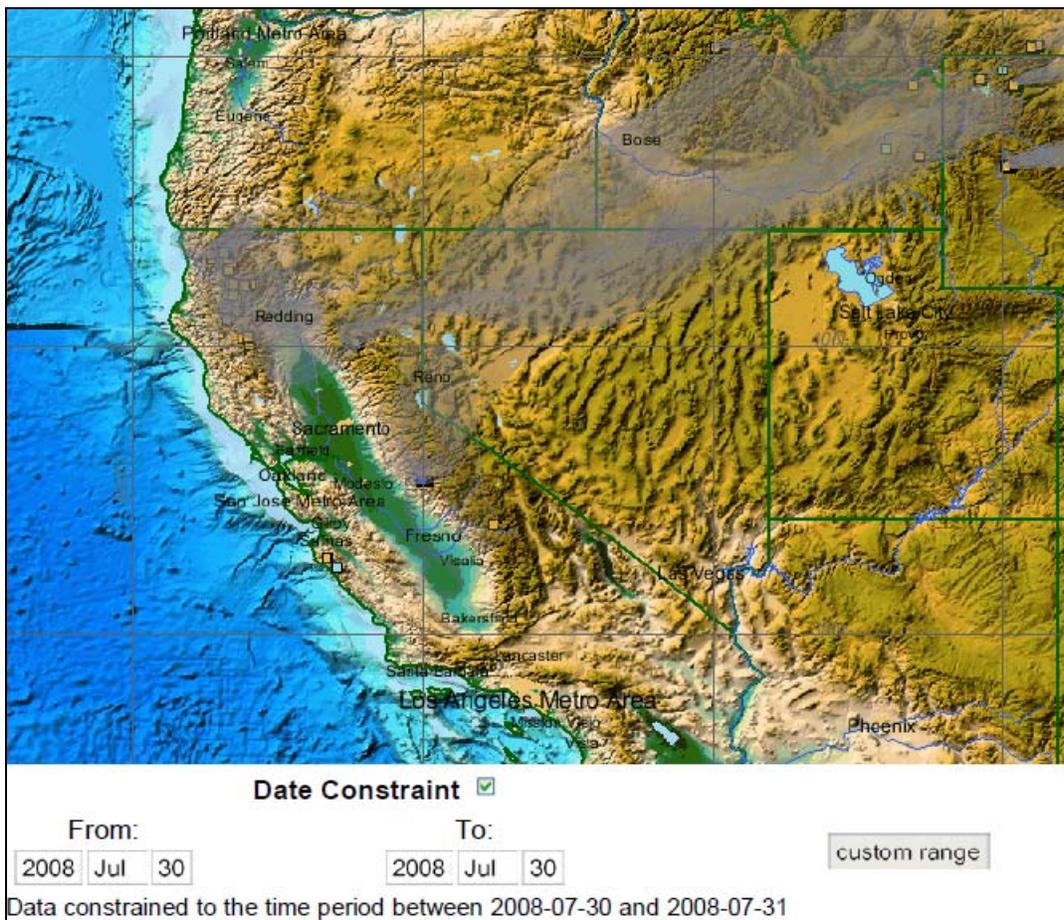


Wednesday July 30, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0145Z JULY 31, 2008

California:

Numerous large wildfires in the central and northern regions of the state are producing moderately dense to dense smoke plumes. Most of the smoke is advancing towards the north and east, extending into northern Nevada and southern Idaho as moderately dense smoke, and also into southern Oregon as lighter smoke. One dense smoke plume in particular is situated near Yosemite National Park, with dense smoke moving towards the north and extending out at least 50km.



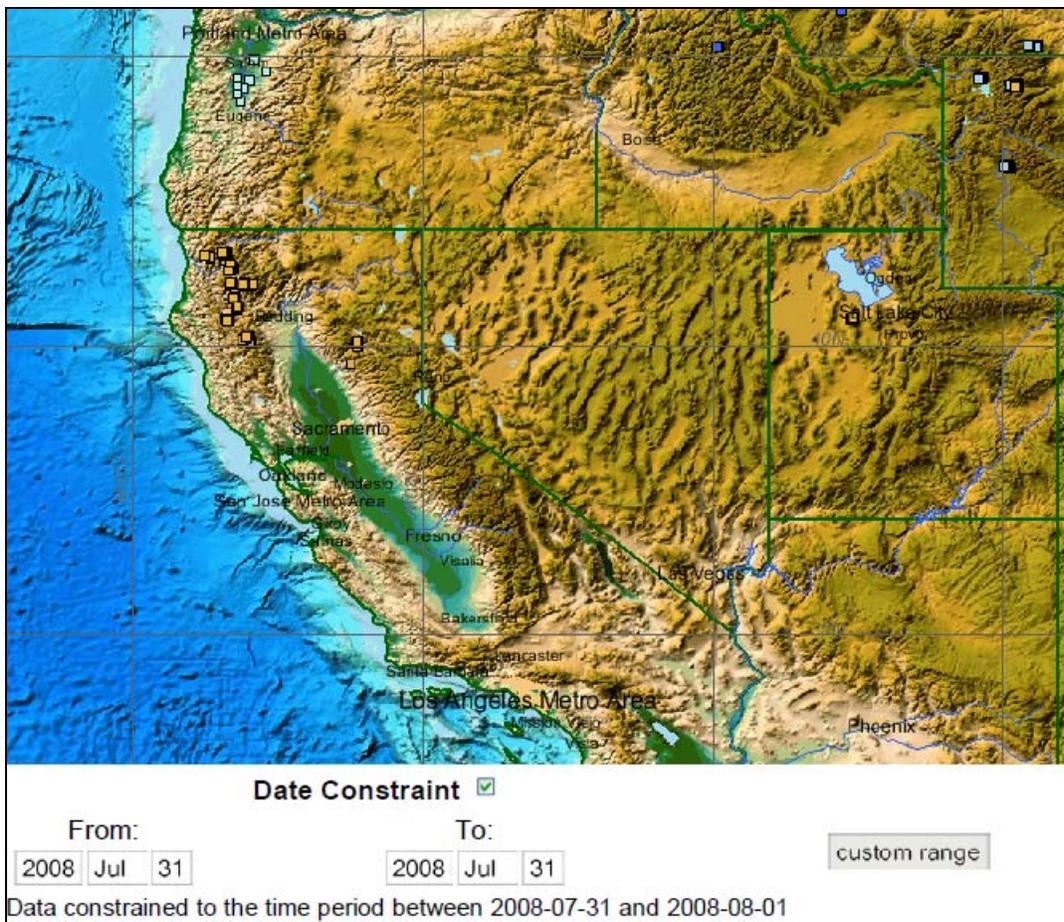
Thursday July 31, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z AUGUST 01, 2008

Impact of Western Fires:

The combination of fires in northern California, the Cascade fire in Montana, the New Fork fire in Wyoming, and two fires in Park County, Wyoming, one of which is the Gunbarrel fire, and have resulted in:

- Heavy dense smoke stretching from northern California into southern Oregon with moderately dense smoke extending farther across eastern Oregon, southeast Washington and northern Idaho;
- Heavy dense smoke near the source of the Montana and Wyoming fires with moderately dense smoke extending as much as 350 km east northeast;
- A narrow band of moderately dense residual smoke from north central Nebraska across southeastern South Dakota and into southern Minnesota; and
- A large area of light smoke that covered at least portions of the Northwest, northern Rockies, the northern and central Plains, the Midwest and Ohio Valley.



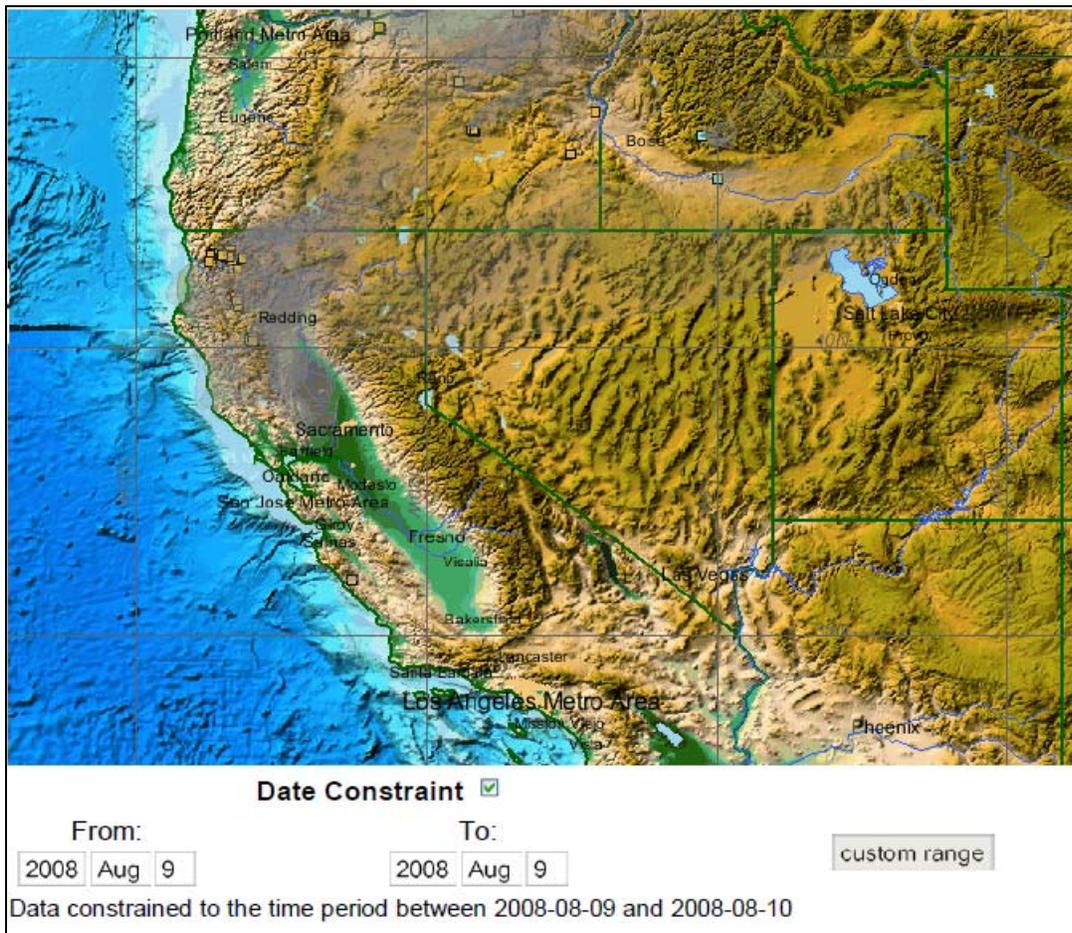
AUGUST 2008

Saturday August 09, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z AUGUST 10, 2008

California/Oregon Fires:

Wildfires producing moderately dense to dense smoke in northern California is drifting to the north and northeast through Siskiyou, Shasta, Trinity, and Modoc counties. The smoke becomes lighter as it moves into central Oregon, however, due to fires in central Oregon, some moderately dense smoke plumes in the state, including one in Harney County, are merging with the smoke from the California fires. This batch of light to moderately dense smoke advances to the north and east into the rest of Oregon, Idaho, western Montana, eastern Washington State, and southern British Columbia.

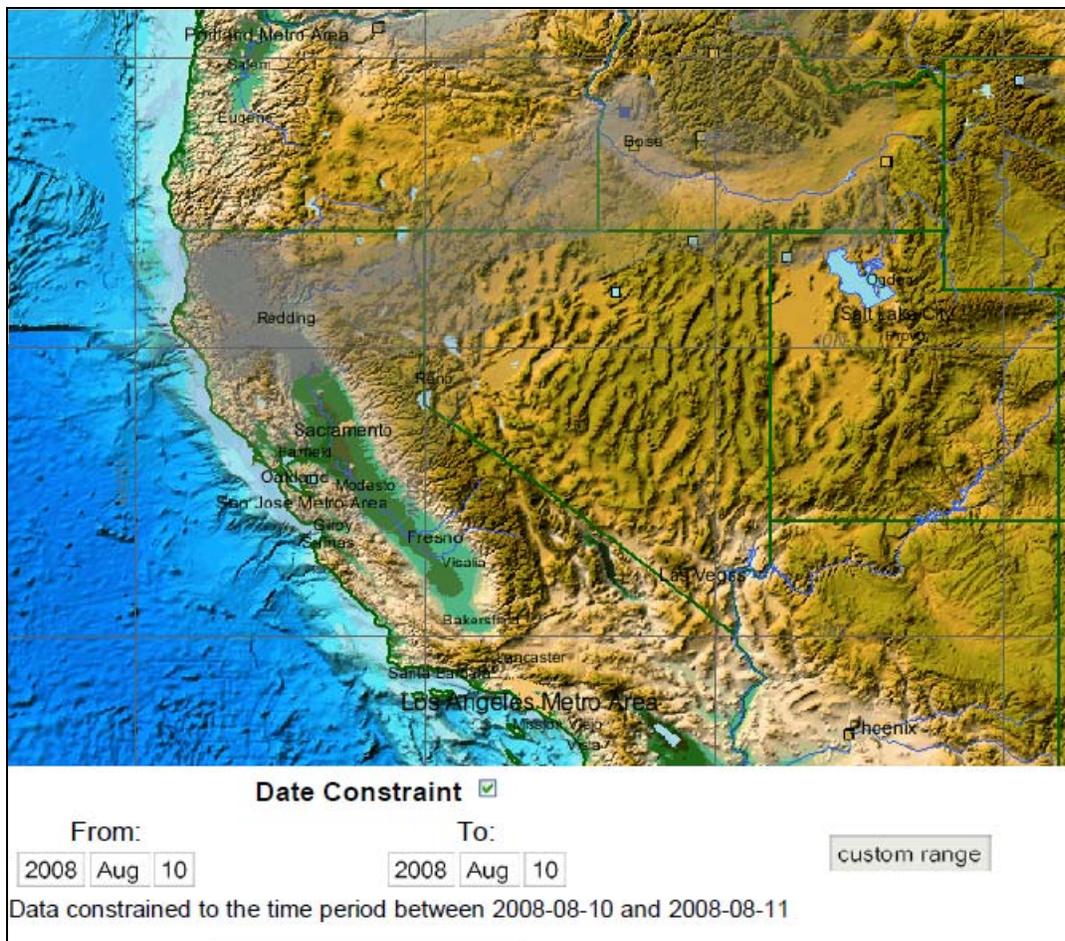


Sunday August 10, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z AUGUST 11, 2008**

California Fires:

Light to moderately dense smoke, including some dense smoke pockets, in northern California is drifting to the south through Siskiyou, Humboldt, Trinity, Shasta, Tehama counties. Residual light to moderately dense smoke from last evening's fires is currently advancing to the northeast through Siskiyou, Shasta, Trinity, and Modoc counties in northern California, and also extends into southeastern Oregon and western Idaho.



Friday August 15, 2008

**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE
IMAGERY
THROUGH 0200Z AUGUST 16, 2008**

California:

The fires in northern California continue to burn emitting moderately dense to dense smoke which is moving to the north through Oregon nearly reaching Washington. In Santa Barbara County a fire is emitting light smoke which is fanning out to the south.



Date Constraint

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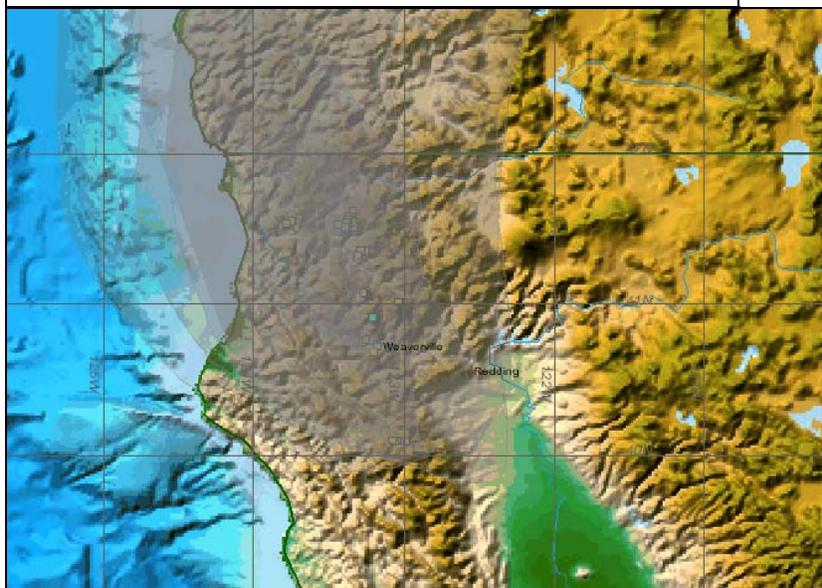
2008 Aug 15

To:

2008 Aug 15

custom range

Data constrained to the time period between 2008-08-15 and 2008-08-16



Date Constraint

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2008 Aug 15

To:

2008 Aug 15

custom range

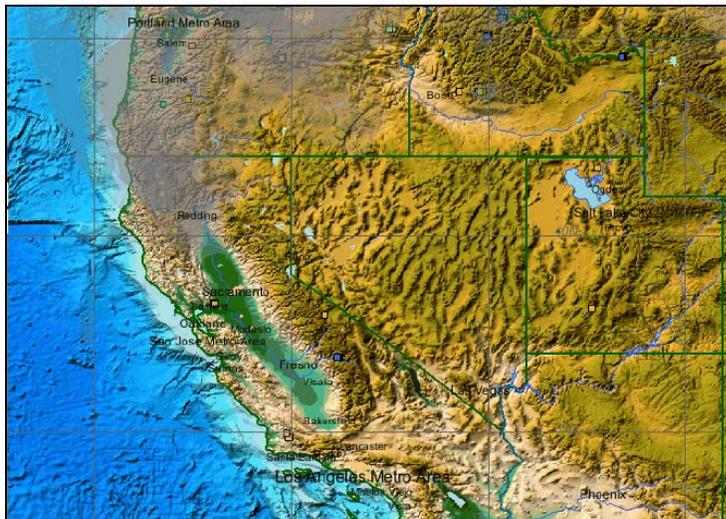
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Saturday August 16, 2008

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0200Z AUGUST 17, 2008

California:

The fires in northern California are emitting moderately dense to dense smoke which is traveling to the north. The smoke thins as it moves north but still affects most of Oregon and Washington, as well as northern Idaho and Montana and the southern portions of British Columbia, Alberta and Saskatchewan.



Date Constraint

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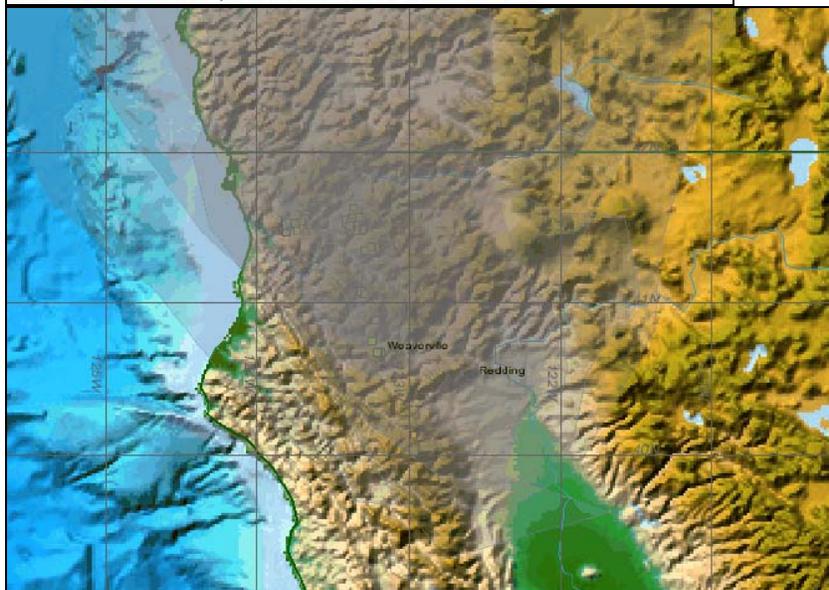
2008 Aug 16

To:

2008 Aug 16

custom range

Data constrained to the time period between 2008-08-16 and 2008-08-17



Date Constraint

From:

2008 Aug 16

To:

2008 Aug 16

custom range

Data constrained to the time period between 2008-08-16 and 2008-08-17