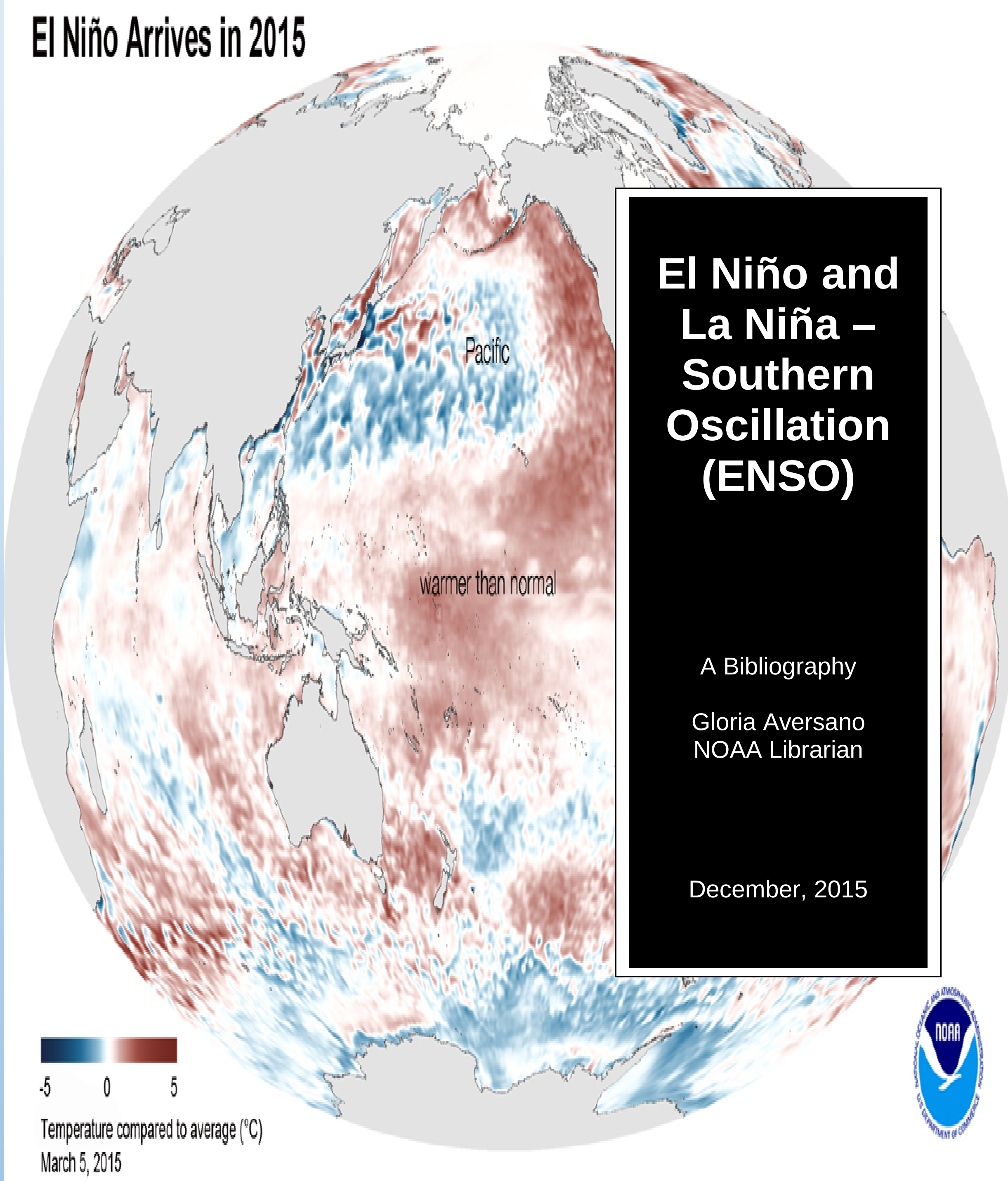


El Niño and La Niña – Southern Oscillation (ENSO)

A Bibliography

Gloria Aversano
NOAA Librarian

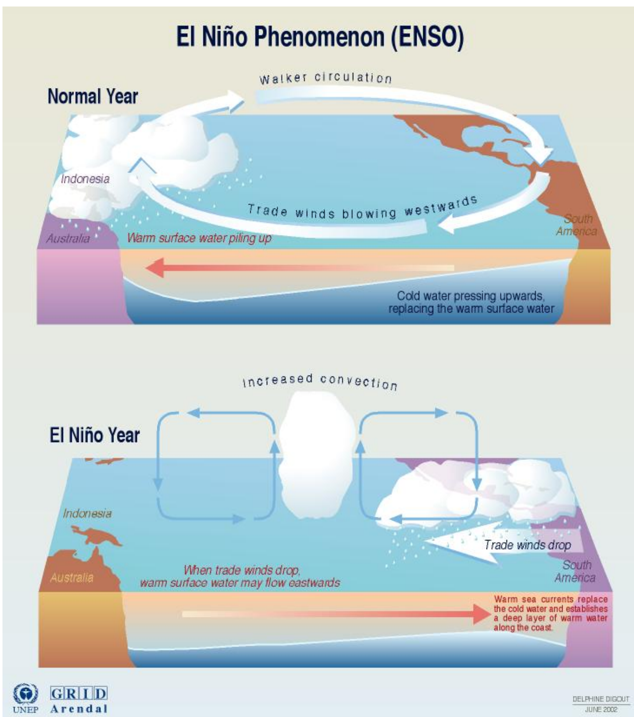
December, 2015

Acknowledgement Credit to NOAA for
“El Nino Arrives in 2015” – Globe Graphic
http://www.noaanews.noaa.gov/stories2015/20150305-noaa-advisory-elnino-arrives.html

Background –

Heating up and cooling down, it seems to be a reoccurring theme in our planet.
The El Niño and La Niña weather events are excellent examples of how interconnected the physics of the ocean and atmosphere are when it comes to cooling and heating. In fact scientists call the interaction, 'ocean-atmosphere coupling'. We think of air and water as discrete bodies however, when changes occur in one it is often reflected in the other. A natural occurring dance of nature in the form of convection that involves large regions of air and ocean water where heat is transferred from one body to another. With El Niño and La Niña, over time, this transference waxes and wanes and is referred to as oscillation. Warm water brings El Niño, cool waters bring La Niña. El Niño occurs in the tropical Pacific and is often brought about by subsiding trade winds and maximum sunlight. The sea surface waters heat up and the heat is transferred to the atmosphere above as the sea water moves east to west. La Niña occurs in the spring when the trade winds increase and water is cooled.

The El Niño and La Niña are not new. According to NOAA, PEML El Niño Theme Page- FAQ's (1) "*Information contained in the chemical composition of ancient tropical Pacific coral skeletons tells us that ENSO has been happening for at least 125 thousand years….*'*the scientific community has known about El Niño and it's impacts on global weather, Pacific marine ecosystems, and fisheries for about 35 years. The regional impacts of El Niño (1) along the coast of South America have been known for hundreds of years by the people living in that area."*



Sources: Climate Prediction Center-NCEP; NOAA.

Weather records indicate this phenomenon occurs every 2 to 7 years. "*NOAA's Climate Prediction Center, declares the onset of an El Niño episode when the 3-month average sea-surface temperature departure exceeds 0.5^{o}C in the east-central equatorial Pacific [between 5^{o}N-5^{o}S and 170^{o}W-120^{o}W].* " NWS, Climate Prediction Center, FAQ's (2).
Thought some characteristics are able to be identified there are still multiple theories as to the whys and wherefores as exceptions in the phenomenon exist.

Brought about by a shift in the jet stream winds, climate impacts vary regionally. In the U.S. among other things they may include milder winters in the north Pacific US and increased precipitation in the southern Gulf States and storm tracks pushing more southerly. La Niña associated with more normal or cooler sea surface temperatures brings decreased precipitation to the Southwest, central and southern U.S. and increased wetness to Pacific Northwest and northern-central states paired with cooler weather in the Northwest and increased temperatures to the southeast, Great Plains and mid-Atlantic states.

These are just some of the impacts listed on the NASA Earth Observatory (3) La Nina website.

In addition to 'typical" U.S. and global climate patterns, climate change and hurricanes are two areas of interest when it comes to possible impacts of El Niño / La Niña. Complex and controversial these are two areas of ongoing study. NOAA's FAQs for La Niña (4) states, *"According to one expert, NCAR's Kevin Trenberth, El Niños were present 31% of the time and La Niñas 23% of the time from 1950 to 1997, leaving about 46% of the period in a neutral state. The frequency of El Niños has increased in recent decades, a shift being studied for its possible relationship to global climate change."*

The bibliography and resources below gives insight into how science attempts to ask questions, perform experiments, make observations, record and analyze data to unravel entanglements of global atmospheric features and better understand this dance and its various impacts on our planet. Not to harness it but perhaps to better sway with it to our best advantage. I hope you enjoy learning more about this fascinating *global* weather occurrence as much as I have in preparing this bibliography.

Bibliographic Scope-

The following bibliography of 893 article titles includes 8 conference proceeding papers and all titles were published between 2005 and 2015. Thomson's, ***Web of Science*** – **Core Collection** was the database used to perform an advanced Boolean search for (ENSO and La Nina). The search was limited to the research areas of: meteorology/atmospheric sciences, oceanography or environmental sciences.

Results returned from 66 different journals with *Journal of Climate* publishing 228 or 25.5 % of the articles on this topic. *International Journal of Climatology* published the second most at 79 or 8.87%. The top producing agency was NOAA with the Chinese Academy of Sciences second, and papers were from 46 different of countries.
Note: One additional title was added manually, as it is 'hot-off-the-press', at this writing, and not yet added to the Thomson index. It is 1a on the full bibliography from *Weatherwise.*

In addition to the article titles I have included several NOAA websites on the topic which are followed by the top 12 cited articles (of the 893) with abstracts. These are followed by the complete article bibliography which includes several analyses covering the agencies, countries and publications represented for the articles.

Lastly, I have included a list of 24 titles for materials indexed in the NOAA Library and Information Network online catalog, ***NOAAlinc***. You may access the NOAAlinc collection at:
http://www.lib.noaa.gov/uhtbin/cgisirsi/?ps=W3iVco8bEj/SILVERSPRG/11910023/60/495/X
This bibliography and others may be found on the National Hurricane Center Library website under Library Resources>"Bibliographies">El Nino and La Nina –Southern Oscillation (ENSO).

NOAA Libraries resource – The Thomson **Web of Science** database product is a NOAA wide resource available through and purchased by NOAA Library system. You may contact your lab librarian or visit this site to locate NOAA supporting libraries and librarians: http://www.lib.noaa.gov/about/lib_network.htm
Please contact National Hurricane Center Librarian, Gloria Aversano for addition information and/or reference services: Gloria.Aversano@noaa.gov, 305.229.4406.

NOAA Libraries bibliography series - please refer to a complete listing of NOAA Libraries produced bibliographies at: http://www.lib.noaa.gov/researchtools/subjectguides/bibliographies.html

El niño - La Niño Resources

Websites – in addition to the links embedded in the background above here are some other links:

1) National Oceanic and Atmospheric Administration (NOAA) Pacific Marine Environmental Laboratory, Tropical Atmosphere Ocean Project, El Niño Theme Page access to distributed information on El Niño: http://www.pmel.noaa.gov/tao/elnino/faq.html
2) NOAA, National Weather Service, Climate Prediction Center, El Niño – Southern Oscillation (ENSO), Frequently Asked Questions About El Nino and La found at http://www.cpc.ncep.noaa.gov/products/precip/CWlink/MJO/enso.shtml
   This site offers current conditions, historical information, outlooks, discussions, educational materials (FAQ, tutorial, impacts and other links) and references.
   Excerpt: "*The ENSO cycle refers to the coherent and sometimes very strong year-to-year variations in sea-surface temperatures, convective rainfall, surface air pressure, and atmospheric circulation that occur across the equatorial Pacific Ocean. El Niño and La Niño represent opposite extremes in the ENSO cycle."*
3) NASA Earth Observatory, Where every day is Earth Day, "Changes in Global Atmospheric Circulation Patterns Accompany La Niño" : http://earthobservatory.nasa.gov/Features/LaNina/la_nina_2.php
4) NOAA, Answers to La Niña Frequently Asked Questions : http://www.elnino.noaa.gov/lanina_new_faq.html
5) NOAA, National Ocean Service, What are El Niño and La Niño? http://oceanservice.noaa.gov/facts/ninonina.html Excerpt: "*El Niño and La Niña are complex weather patterns resulting from variations in ocean temperatures in the Equatorial Pacific."*
6) National Oceanic and Atmospheric Administration - NOAA's El Nino Portal http://www.elnino.noaa.gov/
   Definition from this website: "El Niño is a disruption of the ocean-atmosphere system in the Tropical Pacific having important consequences for weather and climate around the globe." Along with graphics, this site provides links to YouTube video, FAQ's, definitions, ENSO blog and states: "*NOAA has primary*

responsibilities for providing forecasts to the Nation, and a leadership role in sponsoring El Niño observations and research."

7) David B. Enfield, Hurricane Research Division, The "El Niño" FAQ : http://www.aoml.noaa.gov/general/enso_faq/ (2003)

8) David B. Enfield, D. Michael Enfield; Michael H. Glantz; Christopher W. Landsea; Stanley Goldenberg; Peter Glynn; David Atlas; Lisa Davis; Graham Jenkins, Kurt Baldenhofer, NOAA, Physical Oceanography Division, El Niño / ENSO http://www.aoml.noaa.gov/general/enso_faq/ (2007)

9) NOAA, More El Nio Sites: http://www.elnino.noaa.gov/sites.html

Top 12 cited papers from 2005 - 2015:

1. Miralles DG, van den Berg MJ, Gash JH, Parinussa RM, de Jeu RAM, Beck HE, Holmes TRH, Jimenez C, Verhoest NEC, Dorigo WA *et al*: **El Nino-La Nina cycle and recent trends in continental evaporation**. *Nature Climate Change* 2014, **4**(2):122-126.

   The hydrological cycle is expected to intensify in response to global warming(1-3). Yet, little unequivocal evidence of such an acceleration has been found on a global scale(4-6). This holds in particular for terrestrial evaporation, the crucial return flow of water from land to atmosphere(7). Here we use satellite observations to reveal that continental evaporation has increased in northern latitudes, at rates consistent with expectations derived from temperature trends. However, at the global scale, the dynamics of the El Nino/Southern Oscillation (ENSO) have dominated the multi-decadal variability. During El Nino, limitations in terrestrial moisture supply result in vegetation water stress and reduced evaporation in eastern and central Australia, southern Africa and eastern South America. The opposite situation occurs during La Nina. Our results suggest that recent multi-year declines in global average continental evaporation(8,9) reflect transitions to El Nino conditions, and are not the consequence of a persistent reorganization of the terrestrial water cycle. Future changes in continental evaporation will be determined by the response of ENSO to changes in global radiative forcing, which still remains highly uncertain(10,11).

2. Xiang BQ, Wang B, Li T: **A new paradigm for the predominance of standing Central Pacific Warming after the late 1990s**. *Climate Dynamics* 2013, **41**(2):327-340.

   Canonical El Nio has a warming center in the eastern Pacific (EP), but in recent decades, El Nio warming center tends to occur more frequently in the central Pacific (CP). The definitions and names of this new type of El Nio, however, have been notoriously diverse, which makes it difficult to understand why the warming center shifts. Here, we show that the new type of El Nio events is characterized by: 1) the maximum warming standing and persisting in the CP and 2) the warming extending to the EP only briefly during its peak phase. For this reason, we refer to it as standing CP warming (CPW). Global warming has been blamed for the westward shift of maximum warming as well as more frequent occurrence of CPW. However, we find that since the late 1990s the standing CPW becomes a dominant mode in the Pacific; meanwhile, the epochal mean trade winds have strengthened and the equatorial thermocline slope has increased, contrary to the global warming-induced weakening trades and flattening thermocline. We propose that the recent predominance of standing CPW arises from a dramatic decadal change characterized by a grand La Nia-like background pattern and strong divergence in the CP atmospheric boundary layer. After the late 1990s, the anomalous mean CP wind divergence tends to weaken the anomalous convection and shift it westward from the underlying SST warming due to the suppressed low-level convergence feedback. This leads to a westward shift of anomalous westerly response and thus a zonally in-phase SST tendency, preventing eastward propagation of the SST anomaly. We anticipate more CPW events will occur in the coming decade provided the grand La Nia-like background state persists.

3. Deser C, Phillips AS, Tomas RA, Okumura YM, Alexander MA, Capotondi A, Scott JD, Kwon YO, Ohba M: **ENSO and Pacific Decadal Variability in the Community Climate System Model Version 4**. *Journal of Climate* 2012, **25**(8):2622-2651.

   This study presents an overview of the El Nino-Southern Oscillation (ENSO) phenomenon and Pacific decadal variability (PDV) simulated in a multicentury preindustrial control integration of the NCAR Community Climate System Model version 4 (CCSM4) at nominal 1 degrees latitude-longitude resolution. Several aspects of ENSO are improved in CCSM4 compared to its predecessor CCSM3, including the lengthened period (3-6 yr), the larger range of amplitude and frequency of events, and the longer duration of La Nina compared to El Nino. However, the overall magnitude of ENSO in CCSM4 is overestimated by similar to 30%. The simulated ENSO exhibits characteristics consistent with the delayed/recharge oscillator paradigm, including correspondence between the lengthened period and increased latitudinal width of the anomalous equatorial zonal wind stress. Global seasonal atmospheric teleconnections with accompanying impacts on precipitation and temperature are generally well simulated, although the wintertime deepening of the Aleutian low erroneously persists into spring. The vertical structure of the upper-ocean temperature response to ENSO in the north and south Pacific displays a realistic seasonal evolution, with notable asymmetries between warm and cold events. The model shows evidence of atmospheric circulation precursors over the North Pacific associated with the "seasonal footprinting mechanism," similar to observations. Simulated PDV exhibits a significant spectral peak around 15 yr, with generally realistic spatial pattern and magnitude. However, PDV linkages between the tropics and extratropics are weaker than observed.

4. Li JB, Xie SP, Cook ER, Huang G, D'Arrigo R, Liu F, Ma J, Zheng XT: **Interdecadal modulation of El Nino amplitude during the past millennium**. *Nature Climate Change* 2011, **1**(2):114-118.

   The El Nino/Southern Oscillation (ENSO) is the dominant mode of interannual climate variability on Earth, alternating between anomalously warm (El Nino) and cold (La Nina) conditions in the tropical Pacific at intervals of 2-8 years(1,2). The amplitude of ENSO variability affects the occurrence and predictability of climate extremes around the world(3,4), but our ability to detect and predict changes in ENSO amplitude is limited by the fact that the instrumental record is too short to characterize its natural variability(5-8). Here we use the North American Drought Atlas(9,10)-a database of drought reconstructions based on tree-ring records-to produce a continuous, annually resolved record of ENSO variability over the past 1,100 years. Our record is in broad agreement with independent, ENSO-sensitive proxy records in the Pacific and surrounding regions. Together, these records indicate that ENSO amplitude exhibits a quasi-regular cycle of 50-90 years that is closely coupled to the tropical Pacific mean state. Anomalously warm conditions in the eastern Pacific are associated with enhanced ENSO variability, consistent with model simulations(11). The quasi-periodic ENSO amplitude modulation reported here offers a key observational constraint for improving models and their prediction of ENSO behaviour linked to global warming.

5. Vecchie, GA, Wittenberg, Andrew**: El Nino and our future climate: where do we stand?** Climate Change. 2010 260-270
   El Nino and La Nina comprise the dominant mode of tropical climate variability: the El Nino and Southern Oscillation (ENSO) phenomenon. ENSO variations influence climate, ecosystems, and societies around the globe. It is, therefore, of great interest to understand the character of past and future ENSO variations. In this brief review, we explore our current understanding of these issues. The amplitude and character of ENSO have been observed to exhibit substantial variations on timescales of decades to centuries; many of these changes over the past millennium resemble those that arise from internally generated climate variations in an unforced climate model. ENSO activity and characteristics have been found to depend on the state of the tropical Pacific climate system, which is expected to change in the 21st century in response to changes in radiative forcing (including increased greenhouse gases) and internal climate variability. However, the extent and character of the response of ENSO to increased in greenhouse gases are still a topic of considerable research, and given the results published to date, we cannot yet rule out possibilities of an increase, decrease, or no change in ENSO activity arising from increases in CO_2. Yet we are fairly confident that ENSO variations will continue to occur and influence global climate in the coming decades and centuries. Changes in continental climate, however, could alter the remote impacts of El Nino and La Nina. (C) 2010 John Wiley & Sons, Ltd. WIREs Clim Change 2010 1 260-270

6. Nerem RS, Chambers DP, Choe C, Mitchum GT: **Estimating Mean Sea Level Change from the TOPEX and Jason Altimeter Missions**. *Marine Geodesy* 2010, **33**:435-446.

   El Nino and La Nina comprise the dominant mode of tropical climate variability: the El Nino and Southern Oscillation (ENSO) phenomenon. ENSO variations influence climate, ecosystems, and societies around the globe. It is, therefore, of great interest to understand the character of past and future ENSO variations. In this brief review, we explore our current understanding of these issues. The amplitude and character of ENSO have been observed to exhibit substantial variations on timescales of decades to centuries; many of these changes over the past millennium resemble those that arise from internally generated climate variations in an unforced climate model. ENSO activity and characteristics have been found to depend on the state of the tropical Pacific climate system, which is expected to change in the 21st century in response to changes in radiative forcing (including increased greenhouse gases) and internal climate variability. However, the extent and character of the response of ENSO to increased in greenhouse gases are still a topic of considerable research, and given the results published to date, we cannot yet rule out possibilities of an increase, decrease, or no change in ENSO activity arising from increases in CO_2. Yet we are fairly confident that ENSO variations will continue to occur and influence global climate in the coming decades and centuries. Changes in continental climate, however, could alter the remote impacts of El Nino and La Nina. (C) 2010 John Wiley & Sons, Ltd. WIREs Clim Change 2010 1 260-270

7. Stammerjohn SE, Martinson DG, Smith RC, Yuan X, Rind D: **Trends in Antarctic annual sea ice retreat and advance and their relation to El Nino-Southern Oscillation and Southern Annular Mode variability**. *Journal of Geophysical Research-Oceans* 2008, 113(C3).

   Previous studies have shown strong contrasting trends in annual sea ice duration and in monthly sea ice concentration in two regions of the Southern Ocean: decreases in the western Antarctic Peninsula/southern Bellingshausen Sea (wAP/sBS) region and increases in the western Ross Sea (wRS) region. To better understand the evolution of these regional sea ice trends, we utilize the full temporal (quasi-daily) resolution of satellite-derived sea ice data to track spatially the annual ice edge advance and retreat from 1979 to 2004. These newly analyzed data reveal that sea ice is retreating 31 ± 10 days earlier and advancing 54 ± 9 days later in the wAP/sBS region (i.e., total change over 1979–2004), whereas in the wRS region, sea ice is retreating 29 ± 6 days later and advancing 31 ± 6 days earlier. Changes in the wAP/sBS and wRS regions, particularly as observed during sea ice advance, occurred in association with decadal changes in the mean state of the Southern Annular Mode (SAM; negative in the 1980s and positive in the 1990s) and the high-latitude response to El Niño–Southern Oscillation (ENSO). In general, the high-latitude ice-atmosphere response to ENSO was strongest when -SAM was coincident with El Niño and when +SAM was coincident with La Niña, particularly in the wAP/sBS region. In total, there were 7 of 11 -SAMs between 1980 and 1990 and the 7 of 10 +SAMs between 1991 and 2000 that were associated with consistent decadal sea ice changes in the wAP/sBS and wRS regions, respectively. Elsewhere, ENSO/SAM-related sea ice changes were not as consistent over time (e.g., western Weddell, Amundsen, and eastern Ross Sea region), or variability in general was high (e.g., central/eastern Weddell and along East Antarctica).

8. Meyers G, McIntosh P, Pigot L, Pook M: **The years of El Nino, La Nina, and interactions with the tropical Indian ocean**. *Journal of Climate* 2007, **20**(13):2872-2880.

   The Indian Ocean zonal dipole is a mode of variability in sea surface temperature that seriously affects the climate of many nations around the Indian Ocean rim, as well as the global climate system. It has been the subject of increasing research, and sometimes of scientific debate concerning its existence/nonexistence and dependence/independence on/from the El Niño–Southern Oscillation, since it was first clearly identified in *Nature* in 1999. Much of the debate occurred because people did not agree on what years are the El Niño or La Niña years, not to mention the newly defined years of the positive or negative dipole. A method that identifies when the positive or negative extrema of the El Niño–Southern Oscillation and Indian Ocean dipole occur is proposed, and this method is used to classify each year from 1876 to 1999. The method is statistical in nature, but has a strong basis on the oceanic physical mechanisms that control the variability of the near-equatorial Indo-Pacific basin. Early in the study it was found that some years could not be clearly classified due to strong decadal variation; these years also must be recognized, along with the reason for their ambiguity. The sensitivity of the classification of years is tested by calculating composite maps of the Indo-Pacific sea surface temperature anomaly and the probability of below median Australian rainfall for different categories of the El Niño–Indian Ocean relationship.

9. Camargo SJ, Emanuel KA, Sobel AH: **Use of a genesis potential index to diagnose ENSO effects on tropical cyclone genesis**. *Journal of Climate* 2007, **20**(19):4819-4834.

   ENSO (El Niño–Southern Oscillation) has a large influence on tropical cyclone activity. The authors examine how different environmental factors contribute to this influence, using a genesis potential index developed by Emanuel and Nolan. Four factors contribute to the genesis potential index: low-level vorticity (850 hPa), relative humidity at 600 hPa, the magnitude of vertical wind shear from 850 to 200 hPa, and potential intensity (PI). Using monthly NCEP Reanalysis data in the period of 1950–2005, the genesis potential index is calculated on a latitude strip from 60°S to 60°N. Composite anomalies of the genesis potential index are produced for El Niño and La Niña years separately. These composites qualitatively replicate the observed interannual variations of the observed frequency and location of genesis in several different basins. This justifies producing composites of modified indices in which only one of the contributing factors varies, with the others set to climatology, to determine which among the factors are most important in causing interannual variations in genesis frequency. Specific factors that have more influence than others in different regions can be identified. For example, in El Niño years, relative humidity and vertical shear are important for the reduction in genesis seen in the Atlantic basin, and relative humidity and vorticity are important for the eastward shift in the mean genesis location in the western North Pacific.

10. Haylock MR, Peterson TC, Alves LM, Ambrizzi T, Anunciacao YMT, Baez J, Barros VR, Berlato MA, Bidegain M, Coronel G *et al*: **Trends in total and extreme South American rainfall in 1960-2000 and links with sea surface temperature**. *Journal of Climate* 2006, **19**(8):1490-1512.

    A weeklong workshop in Brazil in August 2004 provided the opportunity for 28 scientists from southern South America to examine daily rainfall observations to determine changes in both total and extreme rainfall. Twelve annual indices of daily rainfall were calculated over the period 1960 to 2000, examining changes to both the entire distribution as well as the extremes. Maps of trends in the 12 rainfall indices showed large regions of coherent change, with many stations showing statistically significant changes in some of the indices. The pattern of trends for the extremes was generally the same as that for total annual rainfall, with a change to wetter conditions in Ecuador and northern Peru and the region of southern Brazil, Paraguay, Uruguay, and northern and central Argentina. A decrease was observed in southern Peru and southern Chile, with the latter showing significant decreases in many indices. A canonical correlation analysis between each of the indices and sea surface temperatures (SSTs) revealed two large-scale patterns that have contributed to the observed trends in the rainfall indices. A coupled pattern with ENSO-like SST loadings and rainfall loadings showing similarities with the pattern of the observed trend reveals that the change to a generally more negative Southern Oscillation index (SOI) has had an important effect on regional rainfall trends. A significant decrease in many of the rainfall indices at several stations in southern Chile and Argentina can be explained by a canonical pattern reflecting a weakening of the continental trough leading to a southward shift in storm tracks. This latter signal is a change that has been seen at similar latitudes in other parts of the Southern Hemisphere. A similar analysis was carried out for eastern Brazil using gridded indices calculated from 354 stations from the Global Historical Climatology Network (GHCN) database. The observed trend toward wetter conditions in the southwest and drier conditions in the northeast could again be explained by changes in ENSO.

11. van Oldenborgh GJ, Philip SY, Collins M: **El Nino in a changing climate: a multi-model study**. *Ocean Science* 2005, **1**(2):81-95.

    In many parts of the world, climate projections for the next century depend on potential changes in the properties of the El Niño - Southern Oscillation (ENSO). The current status of these projections is assessed by examining a large set of climate model experiments prepared for the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. Firstly, the patterns and time series of present-day ENSO-like model variability in the tropical Pacific Ocean are compared with that observed. Next, the strength of the coupled atmosphere-ocean feedback loops responsible for generating the ENSO cycle in the models are evaluated. Finally, we consider the projections of the models with, what we consider to be, the most realistic ENSO variability.

    Two of the models considered do not have interannual variability in the tropical Pacific Ocean. Three models show a very regular ENSO cycle due to a strong local wind feedback in the central Pacific and weak sea surface temperature (SST) damping. Six other models have a higher frequency ENSO cycle than observed due to a weak east Pacific upwelling feedback loop. One model has much stronger upwelling feedback than observed, and another one cannot be described simply by the analysis technique. The remaining six models have a reasonable balance of feedback mechanisms and in four of these the interannual mode also resembles the observed ENSO both spatially and temporally.

    Over the period 2051-2100 (under various scenarios) the most realistic six models show either no change in the mean state or a slight shift towards El Niño-like conditions with an amplitude at most a quarter of the present day interannual standard deviation. We see no statistically significant changes in amplitude of ENSO variability in the future, with changes in the standard deviation of a Southern Oscillation Index that are no larger than observed decadal variations. Uncertainties in the skewness of the variability are too large to make any statements about the future relative strength of El Niño and La Niña events. Based on this analysis of the multi-model ensemble, we expect very little influence of global warming on ENSO.

12. Ding QH, Wang B: **Circumglobal teleconnection in the Northern Hemisphere summer**. *Journal of Climate* 2005, **18**(17):3483-3505.

    Analysis of the 56-yr NCEP–NCAR reanalysis data reveals a recurrent circumglobal teleconnection (CGT) pattern in the summertime midlatitude circulation of the Northern Hemisphere. This pattern represents the second leading empirical orthogonal function of interannual variability of the upper-tropospheric circulation. The CGT, having a zonal wavenumber-5 structure, is primarily positioned within a waveguide that is associated with the westerly jet stream. The spatial phases of CGT tend to lock to preferred longitudes. The geographically phase-locked patterns bear close similarity during June, August, and September, but the pattern in July shows shorter wavelengths in the North Pacific–North America sector. The CGT is accompanied by significant rainfall and surface air temperature anomalies in the continental regions of western Europe, European Russia, India, east Asia, and North America. This implies that the CGT may be a source of climate variability and predictability in the above-mentioned midlatitude regions.
    The CGT has significant correlations with the Indian summer monsoon (ISM) and El Niño–Southern Oscillation (ENSO). However, in normal ISM years the CGT–ENSO correlation disappears; on the other hand, in the absence of El Niño or La Niña, the CGT–ISM correlation remains significant. It is suggested that the ISM acts as a “conductor” connecting the CGT and ENSO. When the interaction between the ISM and ENSO is active, ENSO may influence northern China via the ISM and the CGT. Additionally, the variability of the CGT has no significant association with the Arctic Oscillation and the variability of the western North Pacific summer monsoon. The circulation of the wave train shows a barotropic structure everywhere except the cell located to the northwest of India, where a baroclinic circulation structure dominates. Two possible scenarios are proposed. The abnormal ISM may excite an anomalous west-central Asian high and downstream Rossby wave train extending to the North Pacific and North America. On the other hand, a wave train that is excited in the jet exit region of the North Atlantic may affect the west-central Asian high and, thus, the intensity of the ISM. It is hypothesized that the interaction between the global wave train and the ISM heat source may be instrumental in maintaining the boreal summer CGT.

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1a. Williams, Jack and Null, Jan: **What you need to know to understand the current El Ni**ño. *Weatherwise,* 68(6):12-19.

1. Zhi H, Zhang RH, Lin PF, Wang LN: **Simulation of salinity variability and the related freshwater flux forcing in the tropical Pacific: An evaluation using the Beijing normal university earth system model (BNU-ESM)**. Advances in Atmospheric Sciences 2015, 32(11):1551-1564.

2. Zheng F, Feng LS, Zhu J: **An incursion of off-equatorial subsurface cold water and its role in triggering the "double dip" La Nia event of 2011**. Advances in Atmospheric Sciences 2015,32(6):731-742.

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4. Zhang XL, Clarke AJ: **Observations of Interannual Equatorial Freshwater Jets in the Western Pacific.** Journal of Physical Oceanography 2015, 45(11):2848-2865.

5. Zhang WJ, Wang L, Xiang BQ, Qi L, He JH**: Impacts of two types of La Nina on the NAO during boreal winter**. Climate Dynamics 2015, 44(5-6):1351-1366.

6. Zhang WJ, Li HY, Jin FF, Stuecker MF, Turner AG, Klingaman NP: **The Annual-Cycle Modulation of Meridional Asymmetry in ENSO's Atmospheric Response and Its Dependence on ENSO Zonal Structure**. *Journal of Climate* 2015, **28**(14):5795-5812.

7. Zhang RH, Li TR, Wen M, Liu LK: **Role of intraseasonal oscillation in asymmetric impacts of El Nino and La Nina on the rainfall over southern China in boreal winter**. *Climate Dynamics*2015, **45**(3-4):559-567.

8. Zhang JK, Tian WS, Xie F, Li YP, Wang FY, Huang JL, Tian HY: **Influence of the El Niño southern oscillation on the total ozone column and clear-sky ultraviolet radiation over China**.*Atmospheric Environment* 2015, **120**:205-216.

9. Zhang JK, Tian WS, Wang ZW, Xie F, Wang FY: **The Influence of ENSO on Northern Midlatitude Ozone during the Winter to Spring Transition**. *Journal of Climate* 2015, **28**(12):4774-4793.

10. Yun KS, Ha KJ, Yeh SW, Wang B, Xiang BQ: **Critical role of boreal summer North Pacific subtropical highs in ENSO transition**. *Climate Dynamics* 2015, **44**(7-8):1979-1992.

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	COLUMBIA UNIVERSITY	41	4.591 %	
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Field: Organizations-Enhanced	**Record Count**	**% of 893**	**Bar Chart**

Analysis of the publications by country:

Field: Countries/Territories	Record Count	% of 893	Bar Chart
USA	405	45.353 %	
PEOPLES R CHINA	153	17.133 %	
AUSTRALIA	108	12.094 %	
FRANCE	59	6.607 %	
JAPAN	56	6.271 %	
ENGLAND	47	5.263 %	
INDIA	42	4.703 %	
SOUTH KOREA	42	4.703 %	
BRAZIL	35	3.919 %	
CANADA	33	3.695 %	
GERMANY	25	2.800 %	
TAIWAN	22	2.464 %	
SOUTH AFRICA	19	2.128 %	
SPAIN	18	2.016 %	
ITALY	17	1.904 %	
CHILE	16	1.792 %	
MEXICO	14	1.568 %	
PERU	12	1.344 %	

NETHERLANDS	11	1.232 %	
NEW ZEALAND	11	1.232 %	
COLOMBIA	8	0.896 %	
SWITZERLAND	8	0.896 %	
ARGENTINA	7	0.784 %	
RUSSIA	7	0.784 %	
INDONESIA	6	0.672 %	
SWEDEN	6	0.672 %	
PHILIPPINES	5	0.560 %	
AUSTRIA	4	0.448 %	
ISRAEL	4	0.448 %	
NEW CALEDONIA	4	0.448 %	
NORWAY	4	0.448 %	
PAKISTAN	4	0.448 %	
SAUDI ARABIA	4	0.448 %	
SINGAPORE	4	0.448 %	
BELGIUM	3	0.336 %	
GREECE	3	0.336 %	
SCOTLAND	3	0.336 %	
URUGUAY	3	0.336 %	
VIETNAM	3	0.336 %	
CROATIA	2	0.224 %	
ECUADOR	2	0.224 %	
FIJI	2	0.224 %	
FR POLYNESIA	2	0.224 %	
MALAYSIA	2	0.224 %	
PORTUGAL	2	0.224 %	
THAILAND	2	0.224 %	
Field: Countries/Territories	**Record Count**	**% of 893**	**Bar Chart**

Analysis by publication journal:

Field: Source Titles	Record Count	% of 893	Bar Chart
JOURNAL OF CLIMATE	228	25.532 %	
INTERNATIONAL JOURNAL OF CLIMATOLOGY	79	8.847 %	
CLIMATE DYNAMICS	72	8.063 %	
JOURNAL OF GEOPHYSICAL RESEARCH ATMOSPHERES	62	6.943 %	
JOURNAL OF GEOPHYSICAL RESEARCH OCEANS	48	5.375 %	
ATMOSPHERIC CHEMISTRY AND PHYSICS	15	1.680 %	
DEEP SEA RESEARCH PART I OCEANOGRAPHIC RESEARCH PAPERS	15	1.680 %	
CLIMATE RESEARCH	14	1.568 %	
MONTHLY WEATHER REVIEW	14	1.568 %	
WATER RESOURCES RESEARCH	14	1.568 %	
ADVANCES IN ATMOSPHERIC SCIENCES	12	1.344 %	
AUSTRALIAN METEOROLOGICAL AND OCEANOGRAPHIC JOURNAL	12	1.344 %	
JOURNAL OF TROPICAL METEOROLOGY	12	1.344 %	
JOURNAL OF THE ATMOSPHERIC SCIENCES	11	1.232 %	
JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY	10	1.120 %	

CONTINENTAL SHELF RESEARCH	9	1.008 %	
THEORETICAL AND APPLIED CLIMATOLOGY	9	1.008 %	
JOURNAL OF COASTAL RESEARCH	8	0.896 %	
JOURNAL OF OCEANOGRAPHY	8	0.896 %	
MARINE ECOLOGY PROGRESS SERIES	8	0.896 %	
ATMOSFERA	7	0.784 %	
JOURNAL OF HYDROMETEOROLOGY	7	0.784 %	
JOURNAL OF PHYSICAL OCEANOGRAPHY	7	0.784 %	
JOURNAL OF THE METEOROLOGICAL SOCIETY OF JAPAN	7	0.784 %	
ACTA OCEANOLOGICA SINICA	6	0.672 %	
DEEP SEA RESEARCH PART II TOPICAL STUDIES IN OCEANOGRAPHY	6	0.672 %	
OCEAN SCIENCE	6	0.672 %	
ADVANCES IN METEOROLOGY	5	0.560 %	
ATMOSPHERIC RESEARCH	5	0.560 %	
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AUSTRALIAN METEOROLOGICAL MAGAZINE	4	0.448 %	
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TELLUS SERIES A DYNAMIC METEOROLOGY AND OCEANOGRAPHY	4	0.448 %	
ATMOSPHERE OCEAN	3	0.336 %	
ATMOSPHERIC ENVIRONMENT	3	0.336 %	
ATMOSPHERIC SCIENCE LETTERS	3	0.336 %	
CLIMATE OF THE PAST	3	0.336 %	
HELGOLAND MARINE RESEARCH	3	0.336 %	
JOURNAL OF GEOPHYSICAL RESEARCH BIOGEOSCIENCES	3	0.336 %	
JOURNAL OF MARINE SYSTEMS	3	0.336 %	
MARINE AND FRESHWATER RESEARCH	3	0.336 %	
OCEAN DYNAMICS	3	0.336 %	
PALEOCEANOGRAPHY	3	0.336 %	
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT	3	0.336 %	
TELLUS SERIES B CHEMICAL AND PHYSICAL METEOROLOGY	3	0.336 %	
ACTA METEOROLOGICA SINICA	2	0.224 %	
ADVANCES IN SPACE RESEARCH	2	0.224 %	
AGRICULTURAL AND FOREST METEOROLOGY	2	0.224 %	

AGRICULTURE ECOSYSTEMS ENVIRONMENT	2	0.224 %	
ANNALES GEOPHYSICAE	2	0.224 %	
ASIA PACIFIC JOURNAL OF ATMOSPHERIC SCIENCES	2	0.224 %	
CLIMATIC CHANGE	2	0.224 %	
FISHERIES OCEANOGRAPHY	2	0.224 %	
INDIAN JOURNAL OF MARINE SCIENCES	2	0.224 %	
JOURNAL OF HYDROLOGIC ENGINEERING	2	0.224 %	
JOURNAL OF METEOROLOGICAL RESEARCH	2	0.224 %	
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OCEAN MODELLING	2	0.224 %	
PHYSICAL GEOGRAPHY	2	0.224 %	
Field: Source Titles	**Record Count**	**% of 893**	**Bar Chart**

Analysis by publication year:

Field: Publication Years	**Record Count**	**% of 893**	**Bar Chart**
2014	116	12.990 %	
2013	112	12.542 %	
2015	111	12.430 %	
2011	87	9.742 %	
2012	87	9.742 %	
2010	79	8.847 %	
2009	70	7.839 %	
2008	61	6.831 %	
2007	58	6.495 %	
2005	56	6.271 %	
2006	56	6.271 %	
Field: Publication Years	**Record Count**	**% of 893**	**Bar Chart**

NOAA Library and Information Online Catalog (NOAAlinc- http://www.lib.noaa.gov/uhtbin/webcat**)**
The following held titles returned for both 'subject and 'phrase' searches using either *ENSO* or *El Nino and La Nina,* terms and showed mixed formats*.* (Please note this is not an exhaustive search):

1. Bai, Xuezhi**, The impacts of ENSO and AO/NAO on the interannual variability of Great Lakes ice cover (2010)** 44 pages. 3 items available at NOAA Central Library, Silver Spring, MD and on Internet.

2. Rose, Mark A. (Mark Anthony), Distinguishing effects of El Niño southern oscillation from natural short-term climate variability [electronic resource] (2009) 1 online resource (51 p.)

3. Sang-Wook, Yeh, **Dipole-like SST variability in the tropical Pacific. Publisher: Center for Ocean-Land-Atmosphere Studies (**2005) 36 pages. 2 items available at NOAA Central Library, Silver Spring, MD and Betty Petersen Memorial Library, College Park, MD. GC190.2 .C468 no.183

4. Renguang, Wu, **Changes in spread and predictability associated with ENSO in an ensemble coupled GCM,** Center for Ocean-Land-Atmosphere Studies. (2005) 41 pages.

3 items available at NOAA Central Library, Silver Spring, MD, Betty Petersen Memorial Library, College Park, MD, and Available on the Internet. GC190.2 .C468 no.184 and online.

5. Yeh, Sang-Wook, The origin of decadal ENSO-like variability in a coupled GCM**,** Center for Ocean-Land Atmosphere Studies. (2005) 37 pages. 3 items available at NOAA Central Library, Silver Spring, MD, Betty Petersen Memorial Library, College Park, MD, and Available on the Internet.

6. Babkina, A.M., **El Niño : overview and bibliography.** Nova Science Publishers (2003) 196 pages**.** 2 items available at Pacific Islands Fisheries Science Center Library and National Marine Mammal Laboratory Library GC296.8.E4 E55 2003

7. D'Aleo, Joseph S., **The Oryx resource guide to El Niño and La Niña,** Oryx Press, (2002) 230 pages 2 items available at NOAA Central Library, Silver Spring, MD and NOAA Miami Regional Library, Miami, FL. GC296.8.E4 D35 2002

8. Caviedes, Cesar, **El Nino in history: storming through the ages**. University Press of Florida (2001) 279 pages. 2 items available at National Climatic Data Center Library, Asheville, NC and National Severe Storms Laboratory Library. GC296.8 .E4C39 2001
9. Glantz, Michael H., **Currents of change : impacts of El Niño and La Nina on climate and society, Cambridge University Press (2001) 252 pages.** 8 items available at NOAA Central Library, Silver Spring, MD, NOAA Seattle Regional Library, Seattle, WA, NOAA Miami Regional Library, Miami, FL, National Hurricane Center Library, Miami, FL, National Climatic Data Center Library, Asheville, NC, Betty Petersen Memorial Library, College Park, MD, Woods Hole Laboratory Library, Woods Hole, MA, and Department of Commerce Boulder Laboratories Library, Boulder, CO. GC296.8.E4 G53 2001 various call numbers.

10. Croley, Thomas E., creator, **Climate-corrected storm-frequency examples**, Great Lakes Environmental Research Laboratory, U.S. Department of Commerce, National Oceanographic and Atmospheric Administration, (2000) 1 online resource 27 pages.

11. Voituriez, Bruno and Jacques, Guy**, El Niño : fact and fiction,** Paris : United Nations Educational, Scientific and Cultural Organization, (2000), 128 pages. 1 item available – Thesis at National Weather Center Library, Norman, OK

12. United States. National Oceanic and Atmospheric Administration. Office of Global Programs**, Stonehaven demo reel (Mike McPhaden)** [video recording] U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Office of Global Programs (2000) 1 videocassette – 12 minutes.6 items available at NOAA Central Library, Silver Spring, MD.

13. Florida State University, Center for Ocean-Atmospheric Prediction Studies, **El Niño, La Niña and Florida's climate : effects on agriculture and forestry,** Florida Consortium (1999) 30 pages. 1 item available at NOAA Central Library, Silver Spring, MD. S600.62.F6 N56 1999

14. Sirah, Greg, **El Niño-La Niña sea surface temperature and height anomaly 3D isometric view, Jan. 1997 through Feb.** [electronic resource] NASA, Goddard Space Flight Center, (1999) 1 item available at Available on the Internet.

15. Epstein, Paul R., **Extreme weather events : the health and economic consequences of the 1997/98 El Niño and La Niña,** Harvard Medical School, Center for Health and the Global Environment, (1999) 41 pages. 3 items available at NOAA Central Library, Silver Spring, MD, Betty Petersen Memorial Library, College Park, MD, and Pacific Islands Fisheries Science Ctr. Library, Honolulu, HI.

16. Climate Prediction Center (U.S.), **Climate Prediction Center (CPC) [electronic resource] : El Nino and La Nina advisories, climate outlooks and data, and stratospheric ozone,** U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, National Center for Environmental Prediction, Climate Prediction Center, (1999) Various links. El Niño/La Niña site, Atlantic Hurricane Outlook site, Stratosphere site

17. National Geographic Society (U.S.), **El Niño, La Niña [electronic resource] : nature's vicious cycle,** National Geographic Society, (1999). 2 items available at National Hurricane Center Library, Fl and Betty Petersen Memorial Library, College Park, MD.

18. United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment. **Here comes La Niña : what to expect from the weather in the winter of 1998-99 : hearing before the Subcommittee on Energy and Environment of the Committee on Science, U.S. House of Representatives, One Hundred Fifth Congress, second session, October 2, 1998. U.S.** Government Printing Office (1998) 57 pages. 1 item available at NOAA Central Library, Silver Spring, MD. Y 4.SCI 2:105/91

19. Pacific Marine Environmental Laboratory (U.S.), **TAO 3D temperature and sea level [video recording],** Environmental Laboratory (U.S.), U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Office of Global Programs, (1998)**. 7** items available at NOAA Central Library, Silver Spring, MD and Available on the Internet.

20. Glantz, Michael H., **A La Niña summit : a review of the causes and consequences of cold events, workshop report, executive summary.** (1998?), 41 pages. 1 item available at NOAA Central Library, Silver Spring, MD. GC296.8.L3 G53 1998

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