

Curriculum Vitae

Yann Klinger

(January 2019)

Last Name, First Name : Klinger Yann
Birth date, location : 30 mars 1970, Strasbourg
Nationality : french

Professional address

Tectonics
Institut de Physique du Globe de Paris - CNRS
1, rue Jussieu, 75238 Paris cedex 05, France

tel : +33 (0)1 83 95 76 23
email : klinger@ipgp.fr
webpage : www.ipgp.fr/~klinger

Education and positions:

- 1994, Geophysics Engineering degree, EOST, Strasbourg, France.
- January 1999, PhD with highest honors in seismo-tectonics, at l'Institut de Physique du Globe de Strasbourg, supervised by L. Dorbath et J.P. Avouac (LDG/CEA).
- October 1999 – September 2001, Post-doctoral fellow at the seismology lab. at California Institute of Technology, Pasadena, USA, with Prof. K. Sieh.
- October 2001, Junior CNRS researcher permanent position (~ assistant prof.) in the team of Tectonics, at Institut de Physique du Globe de Paris.
- Since July 2011, senior CNRS research permanent position (~ professor) in the team of Tectonics, at IPGP.
- Since 2013, Head of the tectonic lab., at IPGP.
- August 2007 – August 2008: invited professor at the Earth and Planetary Sciences Dpt., Harvard University, USA. Hosts : J. Rice et J. Shaw.

Awards:

- 2004, Prix Pierre Cardin, together with Prof. Xu Xiwei, for scientific collaboration between France and China.
- 2009, Outstanding Reviewer for Geophysical Journal International.

Large project management:

2006 – 2009, PI of project *Lacune* funded by ANR funding agency, 400 k€
2010 – 2014, co-Pi of *Libris* project funded by ANR funding agency, 100 k€
2013 – 2016, PI of *Geosmec* project funded by ANR funding agency, 300k€
2017 – 2020, co-PI of *GAST* project funded by KAUST University, 280k€
2019 – 2021, PI of *Disrupt* project funded by ANR funding agency, 444 k€

Recent invited talks and seminars :

February 2013, Earth Science Dpt. Seminar, Cambridge Univ., UK.
September 2013, Earth and Planet. Sc. Dpt Colloquium, Harvard U., USA.

December 2013, Invited talk (2), AGU Fall meeting, San Francisco, USA.
January 2014, Keynote speaker at summer school, Univ. Chile, Santiago, Chile.
November 2014, Earth Science Dpt. Seminar, Aachen University, Germany.
December 2014, Invited talk, AGU Fall meeting, San Francisco, USA.
January 2015, Keynote speaker, Hokudan Int. Symp., 20 years of Kobe earthquake, Japan.
March 2015, Invited speaker, Int. Red Sea tectonics workshop, KAUST, Saudi Arabia.
Mars 2015, Invited speaker, Royal Astronomical Society meeting, London, UK.
Octobre 2015, Earth Science Colloquium, Univ. Montpellier, France.
March 2016, Earth Sc. Dept. seminar, Univ. Leeds, UK.
August 2016, invited talk, AOGS meeting, Beijing, China.
May 2017, Keynote speaker ESC meeting FAULT2SHA, France.
May 2017, EOS seminar series, NTU Singapore.
September 2017, Chengdu Univ. of Technology, China.
February 2018, EOST general seminar, Strasbourg, France.
Septembre 2018, Geology Dpt seminar, SDSU, USA.
November 2018, KAUST workshop keynote « seismic hazard assessment », Saudi Arabia.
March 2019, Royal Observatory of Belgium seminar, Bruxelles, Belgium.

PhD and post-doctoral Student supervision :

2004 - 2005, Liu Jing, post-doctoral fellow, now professor at Chinese Earthquake Administration, Beijing, China.
2002 - 2005, Mathieu Daeron, PhD, now CNRS researcher, France.
2004 - 2008, Maryline Le Béon, PhD, now research associate, NTU Taiwan.
2007- 2011, Marie Etchebes, PhD, now engineer at Schlumberger research center, Norway.
2007 - 2011, Som Sapkota, PhD, now staff at Dpt. Mine and Geol., Nepal.
2011, Neta Wechsler, post-doctoral fellow, now in private sector computer tech., Tel Aviv U., Israel.
2009 - 2013, Stephanie Dumont, PhD, now post-doctoral fellow, Univ. Beria Interior, Portugal.
2010 - 2014, Newdescarl Saint-Fleur, PhD, now staff at Univ. d'Etat, Haiti.
2012 - 2016, Amaury Vallage, PhD, now research engineer at CEA, France.
2013 - 2016, Marion Thomas, postdoctoral fellow, now researcher at CNRS, France.
2012 - 2017, Aurelie Jourdain, PhD, now high school teacher.
2014 - 2017, Jin Choi, post-doctoral fellow, now researcher at KIGAM, Korea
2016 - 2017, Johann Champenois, post-doctoral fellow, now research engineer at CEA, France.
2014 - 2017, Robin Kurtz, PhD, now in private geotec company, France
2014 - 2018, Marthe Lefevre, PhD, now associate researcher KAUST-IPGP
2015 – 2018, Kurama Okubo, PhD, now post-doctoral fellow, Harvard, USA.
2017 – 2018, LIU Shaozhuo, post-doctoral fellow, now post-doctoral fellow KAUST
2017, Lucile Bruhat, post-doctoral fellow, now post-doctoral fellow ENS France

2016 – present, Benjamin Lauer, PhD candidate
2017 – present, Mathieu Ribot, PhD candidate
2018- present, Solene Antoine, PhD candidate
2019 – present, Yanxiu Shao, post-doctoral fellow
2019 – present, Liqing Jiao, post-doctoral fellow
2019 –present, Yacine Benjelloun, post-doctoral fellow

Research expedition :

- Since 2001, yearly leader of 3 to 4 weeks field investigation in China.
- 2012 – present: Responsible for field expedition in Middle-East (Jordan, Saudi Arabia) (2weeks/yr).
- 2014 – present: Responsible for field investigation (3 weeks/yr) in Mongolia.
- 2018 co-chief mission on R/V Thuwal, detailed bathymetry in the Gulf of Aqaba, Saudi Arabia

Organization of sessions and meetings :

2012, Scientific committee of the Wegener Meeting, Strasbourg.

2012, Responsible for the session « Earthquake deformation : Integrating Observations and Mechanics », AGU 2102.

2013, Organizer of International Workshop « Tectonics of the Levant fault and northern Red Sea » at IPGP.

2015, Organizer of the International Thematic school (CNRS/IUGG) « Deformation, from observation to models » held in Barcelonnette, France, 7 – 13 February 2015. This school gathered 70 students from 15 countries, and 15 professors.

2016, Co-chair session “Active Tectonics and earthquake geology of circum-tibetan plateau region”, AOGS 2016.

2017, Session chair « Earthquake rupture processes, confronting field observation and model », AGU 2017.

2017, co-organizer with B. Romanowicz, workshop “Great Earthquakes” at College de France.

Consulting, expertize, and training

2012, Expertize for local administration before construction of water dam infrastructure, Germany.

2014, Expertize for International Atomic Energy Agency: Assessment of seismic hazard of a nuclear installation, Chile.

2012 and 2014, Hired as external professor at King Abdullah University of Science and Technology, Jeddah, Saudi Arabia, to teach Active tectonics and Earthquake geology at master and PhD level.

2018 – 2022, Member of the scientific board of the Seismic Hazard program Sigma2 led by EDF, the French electricity provider, in collaboration with several other major electricity provider worldwide.

2018 – present, advisor on Active Tectonics for the geological survey of South Korea (KIGAM)

2017 - present, member of the advisory committee of the South California Earthquake Center

Publications in international peer-review journals

83 papers referenced in web of science (January 2019): Citation 3539, h-index 34.

(*) signals supervised and co-supervised students.

PDF can be found at www.ipgp.fr/~klinger

- 83/ Dumont* S., **Klinger** Y., Socquet A., Escartin J., Grandin R., Jacques E., Medynski S., Doubre C. Rifting processes at a continent-ocean transition rift revealed by fault analysis : Example of Dabbahu-Manda-Hararo rift (Ethiopia). *Tectonics*, 38, doi : 10.1029/2018TC005141, 2019.
- 82/ Cambonie T., **Klinger** Y., Lazarus V., Similarities between mode III crack growth patterns and strike-slip faults., *Philosophical Transaction A*, 377(2136), doi : 10.1098/rsta.2017.0392, 2019.
- 81/ **Klinger** Y., Okubo* K., Vallage* A., Champenois* J., Delorme A., Rougier E., Lei. Z., Knight E., Munjiza A., Satriano C., Baize S., Langridge R., Bhat H., Earthquake damage patterns resolve complex rupture processes. *Geophys. Res. Lett.*, 45, doi :10.1029/2018GL078842, 2018
- 80/ Le Béon* M., Tseng Ya-Chu, **Klinger** Y., Elias A., Kunz A., Surssock A., Daeron M., Tapponnier P., Jomaa R., High-resolution stratigraphy and multiple luminescence dating techniques to reveal the paleoseismic history of the central Dead Sea Fault (Yammouneh fault, Lebanon). *Tectonophysics*, 738-739, p1-15, doi: 10.1016/j.tecto.2018.04.009, 2018.
- 79/ Kurtz*, R. **Klinger** Y., Ferry M. , Ritz J.-F., Horizontal surdface-slip distribution through several seismic cycles : The Eastern Bogd fault, Gobi-Altai, Mongolia. *Tectonophysics*, 734-735, p167-182, doi : 10.1016/j.tecto.2018.03.011, 2018.
- 78/ Civico R., Pucci S., Villani F. and the open EMERGEIO working group. Surface ruptures following the 30 October 2016 Mw6.5 Norcia earthquake, central Italy. *Journal of Maps*, 14(2), doi : 10.1080/17445647.2018.1441756, 2018.
- 77/ Villani, F., Civico R., Pucci S., Pizzimenti L., Nappi R., De Martini P. & open EMERGEIO working group, A database of the coseismic effect following the 30 October 2016 Norcia earthquake in Central Italy. *Scientific Data*, 5(180049), doi : 10.1038/sdata.2018.49, 2018.
- 76/ Lefevre* M., **Klinger** Y., Al-Qaryouti M., Le Béon M., Moumani K., Slip deficit and temporal clustering along the Dead Sea fault from paleoseismological investigations. *Scientific Reports*, 8(4511), doi : 10.1038/s1598-018-22627-9, 2018.
- 75/ Choi* J.H., **Klinger** Y., Ferry M., Ritz J.F., Kurtz* R., Rizza M., Bollinger L., Davaasambuu B., Tsend-Ayush N., Demberel S., Geologic inheritance and earthquake rupture processes : The 1905 $M \geq 8$ Tsetserleg-Bulnay strike-slip earthquake sequence, Mongolia. *J. Geophys. Res. : Solid Earth*, **123**, <https://doi.org/10.1002/2017JB013962>, 2018.
- 74/ Wechsler*, N., Rockwell, T. K., **Klinger**, Y., Variable slip-rate and slip-per-event on a plate boundary fault: The Dead Sea fault in northern Israel. *Tectonophysics*, **722**, 210-226, 2018.
- 73/ Gao M., Xu X. **Klinger** Y., Van der Woerd J., Tapponnier P., High-resolution mapping based on an unmanned aerial vehicle (UAV) to capture paleoseismic offsets along the Altyn-Tagh fault, China. *Scientific Reports*, 7(8281), doi : 10.1038/s41598-017-08119-2, 2017.
- 72/ Thomas* M. Y., Bhat H. S., **Klinger** Y., Effect of brittle off-fault damage on earthquake rupture dynamics. In *Fault Zone Dynamic Processes : Evaluation of Fault Properties During Seismic Ruptures*, *Geophysical Monograph 227*, p. 255-280, edited by M.Y. Thomas, T. M. Mitchell & H. S. Bhat, co-published by AGU and Wiley & Sons, Hoboken, USA, 2017.
- 71/ **Klinger** Y., Choi* J-H., Vallage* A., Fault branching and long-term earthquake rupture scenario for strike-slip earthquakes. In *Fault Zone Dynamic Processes : Evaluation of Fault Properties During Seismic Ruptures*, *Geophysical Monograph 227*, p. 217-228, edited by M.Y. Thomas, T. M. Mitchell & H. S. Bhat, co-published by AGU and Wiley & Sons, Hoboken, USA, 2017.
- 70/ Feng G., Jónsson S., **Klinger** Y., Which fault ruptured in the 2008 Wenchuan earthquake and which did not? New evidence from near-fault 3D surface displacements derived from SAR image offsets. *BSSA*, **107**(3), doi :10.1785/0120160126, 2017.
- 69/ Dumont* S., **Klinger** Y., Socquet A., Doubre C., Jacques E., Magma influence on propagation of normal faults : Evidence from cumulative slip profiles along Dabbahu-Manda-Hararo rift segment (Afar, Ethiopia). *J. Struct. Geol.*, **95**, 48 – 59, doi :10.1016/j.jsg.2016.12.008, 2017.
- 68/ Gui-XI Y., Long F., Vallage A., **Klinger** Y., Liang MJ, Wang SW., Focal mechanism and tectonic deformation in the seismogenic area of the 2013 Lushan earthquake sequence, Southwest China, *Chinese J. of Geophys.- Chinese edition*, **59**(10), 3711-3731, doi:10.6038/cjg20161017, 2016.
- 67/ Vallage* A., **Klinger** Y., Lacassin R., Delorme A., Pierrot-Deseilligny M., Geological structures control on earthquake ruptures : the Mw7.7, 2013 Balochistan earthquake, Pakistan. *Geophys. Res. Lett.*, **43**, doi :10.1002/2016GL070418, 2016

- 66/ Rupnik E., Pierrot Deseilligny M., Delorme A., **Klinger** Y., Refine satellite image orientation in the free open-source photogrammetric tools Apero/Micmac, **3**(1), 83-90, *ISPRS Annals of Photogram., Remote Sensing and Spatial Information Sciences*, doi : 10.5194/isprsannals-III-1-83-2016, 2016.
- 65/ Jourdain* A., Singh S.C., Escartin R., **Klinger** Y., Raju K.A.K., McArdle J., Crustal accretion at a sedimented spreading center in the Adaman Sea., **44**(5), 351-354, *Geology*, doi:10.1130/G37537.1, 2016.
- 64/ Bollinger L., Tapponnier P., Sapkota S.N., **Klinger** Y., Slip deficit in central Nepal : omen for a repeat of the 1344 AD earthquake ? *Earth, Planets and Space*, **68**(12), doi :10.1186/s40623-016-0389-1, 2016.
- 63/ Dumont* S., Socquet A., Grandin R., Doubre C., **Klinger** Y., Surface displacements on faults triggered by slow magma transfers between dyke injections in the 2005-2010 rifting episode at Dabbahu-Manda-Hararo rift (Afar, Ethiopia). *Geophys. J. Int.*, **204**, 399-417, doi : 10.1093/gji/ggv449, 2016.
- 62/ Liu-Zeng, J., Y. Shao, Y. **Klinger**, K. Xie, D. Yuan, and Z. Lei, Variability in magnitude of paleoearthquakes revealed by trenching and historical records, along the Haiyuan fault, China, *J. Geophys. Res. Solid Earth*, **120**, doi:[10.1002/2015JB012163](https://doi.org/10.1002/2015JB012163), 2015.
- 61/ Saint Fleur*, N., N. Feuillet, R. Grandin, E. Jacques, J. Weil-Accardo, Y. **Klinger**. Seismotectonics of southern Haiti: A new faulting model for the 12 January 2010 M7 earthquake, *Geophys. Res. Lett.*, **42**, doi:[10.1002/2015GL065505](https://doi.org/10.1002/2015GL065505). 2015.
- 60/ Grandin, R., Vallée M., Satriano C., Lacassin R., **Klinger** Y., Simoes M., Bollinger L., Rupture process of the Mw=7.9 2015 Gorkha earthquake (Nepal) : Insights into Himalayan megathrust segmentation. *Geophys. Res. Lett.*, **42**, doi : 10.1002/2015GL066044. 2015.
- 59/ Vallage* A., **Klinger** Y., Grandin R., Bhat H.S., Pierrot-Deseilligny M., Inelastic surface deformation during the 2013 Mw7.7 Balochistan, Pakistan, earthquake. *Geology*, **43**(12), 1079-1082, doi :10.1130/G37290.1. 2015.
- 58/ **Klinger** Y., Tectonics of the Levant fault system. *C.R. Geosciences*, doi : 10.1016/j.crte.2015.06.008, 2015.
- 57/ Goren L., Castelltort S., **Klinger** Y., Modes and rates of horizontal deformation from rotated river basins : Application to the Dead Sea system in Lebanon. *Geology*, **43**(9), 843-846, doi : 10.1130/G36841.1, 2015.
- 56/ **Klinger** Y., Le Béon M., Al-Qaryouti M., 5000 yr of paleoseismicity along the southern Dead Sea fault. *Geophys. J. Int.*, **202**, 313 – 327, doi : 10.1093/gji/ggv134, 2015.
- 55/ Jolivet R., Candela T., Lasserre C., Renard F., **Klinger** Y., Doin M.-P., The burst-like behavior of aseismic slip on a rough fault : the creeping section of the Haiyuan fault, China. *Bull. Seis. Soc. Am.*, **105**(1), 480-488, doi : 10.1785/0120140237, 2015.
- 54/ Masson F., Hamiel Y., Agnon A., **Klinger** Y. Deprez A., Variable behavior of the Dead Sea Fault along the southern Arava segment from GPS measurements. *C. R. Geoscience*, <http://dx.doi.org/10.1016/j.crte.2014.11.001>. 2015.
- 53/ Zielke, O., **Klinger** Y., Arrowsmith J.R., Faut slip and earthquake recurrence along strike-slip faults – Contributions of high-resolution geomorphic data. *Tectonophysics*, **638**,43-62, doi: 10.1016/j.tecto.2014.11.004, 2015.
- 52/ Vargas G., **Klinger** Y., Rockwell T., Forman S. Rebolledo S., Baize S., Lacassin R., Armijo R., Probing large intraplate earthquakes at the west flank of the Andes. *Geology*, **42**, 1083-1086, doi :10.1130/G35741.1, 2014.
- 51/ Bollinger L., Sapkota S., Tapponier P., **Klinger** Y., Rizza M., Van der Woerd J., Tiwari D., Pandey R., Bitri A., Bes de Berc S., Estimating the return times of great Himalayan earthquakes in eastern Nepal : Evidence from the Patu and Bardibas strands of the Main Frontal Thrust. *J. Geophys. Res. Solid Earth*, **119**, doi : 10.1002/2014JB010970, 2014.
- 50/ Wechsler* N., Rockwell T., **Klinger** Y., Stepancikova P., Kanari M., Marco S., Agnon A., A paleoseismic record of earthquakes for the Dead Sea transform fault between the first and seventh centuries C.E. : Nonperiodic behavior of a plate boundary fault. *Bull. Seis. Soc. Am.*, **104** (3), doi :10.1785/0120130304, 2014.
- 49/ Vallage* A., Deves M. H., **Klinger** Y., King G.C.P., Ruppert N., Localized slip and distributed deformation in oblique settings: the example of the Denali fault system, Alaska. *Geophys. J. Int.*, **197**, 1284 – 1298, doi:10.1093/gji/ggu100, 2014.
- 48/ Rosu A.M., Pierrot-Deseilligny M., Delorme A., Binet R., **Klinger** Y. Measurement of ground displacement from optical satellite image correlation using the free open-source software MicMac. *ISPRS J. of Photogram. Remote Sensing.*, **100**, 48-59, doi:10.1016/j.isprsjprs.2014.03.002, 2015.
- 47/ Meade B.J., **Klinger** Y., Hetland E., Inference of multiple earthquake-cycle relaxation timescales from irregular geodetic sampling of interseismic deformation. *Bull. Seis. Soc. Am.*, **103** (5), p. 2824-2835, doi:10.1785/0120130006, 2013.

- 46/ Chen G., Xu X., Zhu A., Zhang X., Yuan R., **Klinger** Y., Nocquet JM., Seismotectonics of the 2008 and 2009 Qaidam earthquakes and its implication for regional tectonics. *Acta Geologica Sinica – English Edition*, **87** (2), 618-628, doi: 10.1111/1755-6742.12072, 2013.
- 45/ Rockwell K. T., **Klinger** Y., Surface rupture and slip distribution of the 1940 Imperial Valley earthquake, Imperial fault, southern California: implications for rupture segmentation and dynamics, *Bull. Seis. Soc. Am.*, **103** (2A), p 629-640, doi: 10.1785/0120120192, 2013.
- 44/ Sapkota* S.N., Bollinger L., **Klinger** Y., Tapponnier P., Gaudemer Y., Tiwari D., Primary surface ruptures of the great Himalayan earthquake in 1934 and 1255, *Nature Geoscience*, **6**, p. 71-76, doi: 10.1038/NCEO1669, 2013.
- 43/ Le Béon*, M., Y. **Klinger**, A.-S. Mériaux, M. Y. Al-Qaryouti, R. C. Finkel, O. T. Mayyas, and P. Tapponnier, Quaternary morphotectonic mapping of the Wadi Araba and implications for the tectonic activity of the southern Dead Sea fault, *Tectonics*, **31**, TC5003, doi:10.1029/2012TC003112, 2012.
- 42/ Candela T., Renard F., **Klinger** Y., Mair K., Schmittbuhl J., Brodsky E. E., Roughness of fault surfaces over nine decades of length scales. *J. Geophys. Res.*, **117**, B08409, doi :10.1029/2011JB009041, 2012.
- 41/ Tan X., Yuan R., Xu X., Chen G., **Klinger** Y., Chang C., Ren J., Xu C., Li K., Complex surface rupturing and related formation mechanisms in the Xiaoyudong area for the 2008 Mw 7.9 Wenchuan earthquake, China. *J. Asian Earth Sc.*, **58**, p. 132 – 142, 2012.
- 40/ Deves M., King G.C.P., **Klinger** Y., Agnon A., Localised and distributed deformation in the lithosphere : Modelling the Dead Sea region in 3 dimensions. *EPSL*, **308**, doi:10.1016/j.epsl.2011.05.044, 2011.
- 39/ **Klinger** Y., Etchebes* M., Tapponnier P., Narteau C., Characteristic slip for five great earthquakes along the Fuyun fault in China. *Nature Geoscience*, **4**, 389-392, doi:10.1038/ngeo1158, 2011.
- 38/ De Michele M., Roucoules D., Lasserre C., Pathier E., **Klinger** Y., Van der Woerd J., De Sigoyer J., Xu X., The Mw 7.9, 12 May 2008 Sichuan earthquake rupture measured by sub-pixel correlation of ALOS PALSAR amplitude images. *Earth Planets Space*, **62**, 875 – 879, doi:10.5047/eps.2009.05.002, 2010.
- 37/ Le Béon* M., **Klinger** Y., Al-Qaryouti M., Mériaux A.S., Finkel R.C., Elias A., Mayyas O., Ryerson F.J., Tapponnier P., Early Holocene and Late Pleistocene slip rates of the southern Dead Sea Fault determined from 10Be cosmogenic dating of offset alluvial deposits. *J. Geophys. Res.*, **115**, B11414, doi:10.1029/2009JB007198, 2010.
- 36/ Hubbard J., Shaw J.H., **Klinger** Y., Structural setting of the 2008 Mw7.9 Wenchuan, China, earthquake. *Bull. Seis. Soc. Am.*, **100** (5B), 2713 – 2735, doi: 10.1785/0120090341, 2010.
- 35/ Yuan R., Xu X., Chen G., Tan X., **Klinger** Y., Xing H., Ejection landslide at northern terminus of Beichuan rupture triggered by the 2008 Mw7.9 Wenchuan earthquake. *Bull. Seis. Soc. Am.*, **100** (5B), 2689 – 2699, doi: 10.1785/0120090256, 2010.
- 34/ Yu G., Xu X., **Klinger** Y., Diao G., Chen G., Feng X., Li C., Zhu A., Yuan R., Guo T., Sun X., Tan X., An Y., Fault-scarp features and cascading-rupture model for the Mw7.9 Wenshuan earthquake, Eastern Tibetan plateau, China. *Bull. Seis. Soc. Am.*, **100** (5B), 2590 – 2614, doi: 10.1785/0120090255, 2010.
- 33/ **Klinger** Y., Ji C., Shen Z. K. Bakun W. H., Introduction to the special issue on the 2008 Wenchuan, China, earthquake. *Bull. Seis. Soc. Am.*, **100** (5B), 2353 – 2356, doi: 10.1785/0120100172, 2010.
- 32/ **Klinger** Y., Relation between continental strike-slip earthquake segmentation and thickness of the crust. *J. Geophys. Res.*, **115**, B07306, doi:10.1029/2009JB006550, 2010.
- 31/ Richon P., **Klinger** Y., Tapponnier P., Li C.X., Van der Woerd J., Perrier P., Measuring radon flux across active faults : Relevance of excavating and possibility of satellite discharges. *Radiat. Meas.*, **45**, 211-218, doi:10.1016/j.radmeas.2010.01.019, 2010.
- 30/ Grandin R., Socquet A., Binet R., **Klinger** Y., Jacques E., De Chabaliier J.B., King G., Lasserre C., Tait S., Tapponnier P., Delorme A., Pinzuti P., The September 2005 Ado’Ale rifting crisis, Afar (Ethiopia) :constraints provided by geodetic data. *J. Geophys. Res.*, **114**, B08404, doi :10.1029/2008JB005843, 2009.
- 29/ Rockwell T., Ragona D., Seitz G., Langridge R., Aksoy M. E., Ucarus G., Ferry M., Meltzner A., **Klinger** Y., Meghraoui M., Satir D., Barka A., Akbalik B., Paleoseismology of the North Anatolian fault near the Marmara Sea : Implications for fault segmentation and seismic hazard. *Geological Society, London, Special Publication*, **316**, 31 – 54, doi :10.1144/SP316.3, 2009.
- 28/ Xu X., Wen X., Yu G., Chen G., **Klinger** Y. , Hubbard, J., Shaw J., Co-seismic reverse- and oblique-slip surface faulting generated by the 2008 Mw 7.9 Wenshuan earthquake, China., *Geology*, **37** (6), 515 – 518, doi: 10.1130/G25462A.1, 2009.
- 27/ Xu X., Yu G., Ma W., **Klinger** Y., Tapponnier P., Rupture behavior and deformation localisation of the Kunlun earthquake (Mw7.8) and their tectonic implications., *Science in China serie D-earth sciences*, **51**, 10, 1361-1374, doi : 10.1007/s11430-008-0099-z, 2008.
- 26/ Le Béon* M., **Klinger** Y., Amrat A. Q., Agnon A., Dorbath L., Baer G., Ruegg JC., Charade O., Mayyas O. Slip rate and locking-depth from GPS profiles across the southern Dea Sea Transform. *J. Geophys. Res.*, **113**, B11403, doi : 10.1029/2007JB005280, 2008.

- 25/ Vallée M., Landès M., Shapiro N. M., **Klinger** Y. The 2001/11/14 Kokoxili (Tibet) earthquake: high frequency seismic radiation originates from the transitions between subRayleigh and supershear rupture velocity regimes. *J. Geophys. Res.*, **113**, B07305, doi : 10.1029/2007JB005520, 2008.
- 24/ Elias A., Tapponnier P., Singh S., King G.C.P., Briais A., Daëron M., Carton H., Surssock A., Jacques E., Jomaa R., **Klinger** Y. Active thrusting offshore Mount Lebanon : source of the tsunamigenic, 551 AD Beirut-Tripoli earthquake. *Geology*, **35**, 8, 755-758, 2007.
- 23/ Daëron* M., **Klinger** Y., Tapponnier P., Elias A., Jacques E., Surssock A., 12,000-year-long record of up to 14 paleo-earthquakes on the Yammouneh fault (Levant fault system). , *Bull. Seis. Soc. Am.*, **97**, 3, 749-771, 2007.
- 22/ Bhat H., Dmowska R., King G., **Klinger** Y., Rice J., Off-fault damage patterns due to supershear ruptures with application to the 2001 Mw 8.1 Kokoxili (Kunlun) Tibet earthquake. *J. Geophys. Res.*, **112**, B06301, doi:10.1029/2006JB004425, 2007.
- 21/ Liu* J., **Klinger** Y., Xu X., Lasserre C., Chen G., Chen W., Tapponnier P., Zhang B., Millennial recurrence of large earthquakes on the Haiyuan fault near Songshan, Gansu province, China. *Bull. Seis. Soc. Am.*, **97**, 1B, 14 – 34, 2007.
- 20/ Hofstetter R., **Klinger** Y., Abdel-Qader A., Rivera L., Dorbath L., Stress tensor and focal mechanisms along the Dead Sea Fault and related structural elements based on seismological data. *Tectonophysics*, **429**, 165-181, 2007
- 19/ Xu X., Yu G., **Klinger** Y., Tapponnier P., Van der Woerd J., Re-evaluation of surface rupture parameters and faulting segmentation of the 2001 Kunlunshan earthquake (Mw 7.8), northern tibet plateau, China. *J. Geophys. Res.*, **111**, B05316, doi :10.1029/2004JB003488, 2006.
- 18/ Van der Woerd J., **Klinger** Y., Sieh K., Tapponnier P., Ryerson F.J. and Mériaux A.S., Long-term slip rate of the southern San Andreas fault, from 10Be-26Al surface exposure dating of an offset alluvial fan. *J. Geophys. Res.* , **111**, B04407, doi :10.1029/2004JB003559. 2006.
- 17/ **Klinger** Y., Michel R., King G.C.P., Evidence for a barrier model from Mw7.8 Kokoxili (Tibet) earthquake slip-distribution. *EPSL*, **242**, 354-364, 2006.
- 16/ Liu-Zeng, J., Y. **Klinger**, K. Sieh, C. Rubin, and G. Seitz, Serial ruptures of the San Andreas fault, Carrizo Plain, California, revealed by three-dimensional excavations, *J. Geophys. Res.*, **111**, B02306, doi:10.1029/2004JB003601, 2006.
- 15/ Lasserre C., Peltzer G., Crampé F., **Klinger** Y., Van der Woerd J., Tapponnier P., Co-seismic deformation of the Mw =7.8 Kokoxili earthquake in Tibet, measured by SAR interferometry. *J. Geophys. Res.*, **110** (B12), B12408, doi:10.1029/2004JB003500, 2005.
- 14/ **Klinger** Y., Xu X., Tapponnier P., Van der Woerd J., Lasserre C., King G. High-resolution satellite imagery mapping of the surface rupture and slip distribution of the Mw ~7.8, 14 november 2001 Kokoxili earthquake, Kunlun fault, northern Tibet, China. *Bull. Seis. Soc. Am.*, **95** (5),1970-1987, 2005.
- 13/ Li H., Van der Woerd J., Tapponnier P., **Klinger** Y., Qi X., Yang J., Zhu Y. Slip rate on the Kunlun fault at Hongshui Gou, and recurrence time of great events comparable to the 14/11/2001, Mw~7.9 Kokoxili earthquake. *EPSL*, **237**, 285-299, 2005.
- 12/ Daëron* M., **Klinger** Y., Tapponnier P., Elias A., Jacques E., Surssock A. Sources of the large AD 1202 and 1759 near east earthquakes. *Geology*, **33**, 529-532, 2005.
- 11/ King G., **Klinger** Y., Bowman D., Tapponnier P., Slip-partitioned surface breaks for the Mw 7.8, 2001, Kokoxili earthquake, China. *Bull. Seis. Soc. Am.*, **95**, 731-738, 2005.
- 10/ Closson D., Abou Karaki N., **Klinger** Y., Hussein M.J., Subsidence and sinkhole hazard assessment in the southern Dead Sea area, Jordan. *Pageoph*, **162**, 221-248, 2005.
- 9/ Liu J., **Klinger** Y., Sieh K., Rubin C. Six similar, sequential ruptures of the San Andreas Fault, Carrizo Plain, California. *Geology*, **32**, 649-652, 2004.
- 8/ **Klinger** Y., Sieh K., Altunel E., Akoglu A., Barka A., Dawson T., Gonzales T., Meltzner A., Rockwell T., Paleoseismic evidence of characteristic slip on the western segment of the North Anatolian fault, Turkey. *Bull. Seis. Soc. Am.*, **93**, 2317 – 2332, 2003.
- 7/ **Klinger** Y., Avouac J.P., Bourles D., Tisnerat N., Alluvial deposition and lake-level fluctuations forced by Late Quaternary climate change: the Dead-Sea case example. *Sedimentary Geology*, **162**, 119-139, 2003.
- 6/ Rockwell T., Lindvall S., Dawson T., Langridge R., Lettis W., **Klinger** Y., Lateral offsets on surveyed cultural features resulting from the 1999 Izmit and Duzce earthquakes, Turkey. *Bull. Seis. Soc. Am.*, **92**, 79-94, 2002.
- 5/ Van der Woerd J., Meriaux A.S., **Klinger** Y., Tapponnier P., Ryerson F.J., Gaudermer Y., The 14 november 2001, Mw 7.8 Kokoxili earthquake in northern Tibet (Qinghai Province, China). *Seis. Res. Lett.*, **73**, 125-135, 2002.
- 4/ **Klinger** Y., Avouac J.P., Dorbath L., Abou Karaki N., Bourles D., Reyss J.L. Slip-rate on the Dead Sea transform fault in northern Araba valley (Jordan). *Geophys. J. Int.*, **142**, 755-768, 2000.

- 3/ **Klinger** Y., Avouac J.P., Dorbath L., Abou Karaki N., Tisnerat N. Seismic behavior of the Dead Sea fault along Araba valley (Jordan). *Geophys. J. Int.*, **142**, 769-782, 2000.
- 2/ **Klinger** Y., Michel R., Avouac J.P. Co-seismic deformation during the *Mw* 7.3 Aqaba earthquake (1995) from ERS-SAR interferometry. *Geophys. Res. Lett.*, **27**, 3651-3654, 2000.
- 1/ **Klinger** Y., Rivera L., Haessler H. et Maurin J.C. Active faulting in the gulf of Aqaba : New knowledge from the *Mw* 7.3 earthquake of 22 November 1995. *Bull. Seis. Soc. Am.*, **89**, 1025-1036, 1999.