

## CURRICULUM VITAE S.B. KROONENBERG

Full name: Salomon Bernard KROONENBERG  
Born : March 13, 1947, Leiden, the Netherlands  
Citizenship: Dutch (present and at birth)  
Functions : (1) Professor of Geology, Delft University of Technology (retired), Department of Geoscience and Engineering, P.O. Box 5028, 2600 GA Delft, the Netherlands, tel +31 15 278 1328  
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### EDUCATION

1959-1965 Stedelijk Gymnasium Middelburg, β  
1965-1971 University of Amsterdam, Physical Geography, kand. (BSc.), 1968, Doctoraal (MSc) 1971, MSc thesis on *Petrology, weathering and landform genesis in granites in NW Spain*.  
1976 Promotie (PhD) University of Amsterdam, on a thesis *Amphibolite-facies and granulite-facies metamorphism in the Coeroeni-Lucie area, southwestern Surinam*". Geol. Mijnb. Dienst Suriname Mededelingen 25, 109-289, promotor Prof. Dr. W.P. de Roever  
1979 Applied Remote Sensing Course, ITC, Enschede

### EMPLOYMENT RECORD

February 1, 2018 – present: Guest researcher Utrecht University.  
February 1, 2017 – present: Endowed professor Anton de Kom University of Suriname  
September 1, 2009 – present: Independent consultant and science writer; guest researcher University of Technology, Delft University of Technology; advisor Faculty of Technical Sciences, Anton de Kom University of Suriname.  
June 1, 1996 – September 1, 2009; Full professor of geology, Department of Applied Earth Sciences, Faculty of Civil Engineering and Geosciences, Delft University of Technology; 1996-1998: Guest lecturer at IHE, Delft  
September 1, 1982 - May, 31 1996 Full professor in geology and mineralogy at the Department of Soil Science and Geology, Wageningen Agricultural University, P.O. Box 37, Wageningen, the Netherlands.  
April 1979 - August 1982 Lecturer in geology, geomorphology and remote sensing at the Centro Interamericano de Fotointerpretación (CIAF), (now: Subdirección de Docencia e Investigación del Instituto Geográfico "Agustín Codazzi"), Apartado Aéreo 53754, Bogotá, Colombia. Employed by CIAF and Netherlands Ministry of Foreign Affairs (DGIS; "suppletiedeskundige").  
August 1978 - January 1979 Lecturer in physical geography at the University College of Swaziland (UCS), Private Bag, Kwaluseni, Swaziland, Africa. Employed by Free University of Amsterdam (FU).  
March 1972 - April 1978 Geologist at the Geological and Mining Service (GMD), Kleine Waterstraat 2-6 Suriname. Employed by Netherlands Ministry of Internal Affairs (1972-1975), after independence by Ministry of Foreign Affairs (DITH, now DGIS). Simultaneously: Lecturer physical geography at the Teachers' Training Institute, Cattleyastraat 4, Paramaribo (evening hours)  
February 1969 - March 1972 Student assistant (half time) in micromorphology (soil microscopy) at the Laboratory for Physical Geography and Soil Science, University of Amsterdam.

### LANGUAGES

Mother tongue Dutch; excellent understanding, speaking, reading and writing in English, Spanish, French, Russian, German, Italian; fair knowledge of Portuguese, Finnish, Surinamese.

### DISTINCTIONS

Member of the International Eurasian Academy of Sciences (2018)  
Foreign Member of the Russian Academy of Natural Sciences RAEN (1994)  
Eureka award for best natural sciences book for non-specialists *De menselijke Maat* (NWO 2007)  
Honorary Professor Moscow State University (22 oct 2008)  
Bearer of Van Waterschoot van der Gracht Medal of KNGMG (2010)  
Officier in de orde van Oranje Nassau, (2011)

## OFFICIAL FUNCTIONS

Member of the Commissie voor Promoties en Eredocoraten, Anton de Kom Universiteit Suriname (2016-)  
Chairman Scientific Advisory Committee [www.pontocaspien.eu](http://www.pontocaspien.eu) programme (Drivers of Pontocaspien Biodiversity Rise and Demise: An EU-Horizon 2020 Innovative Training Network) (2015-  
Scientific Director Delft Earth (Earth Research Centre Delft), (2006-2009)  
Scientific Director Centre for Technical Geosciences (Research School CTG) (2006-2009)  
Member of the Scientific Council of Naturalis (2006 –2009)  
Chairman Earth and Climate Council (RAK) of the Royal Netherlands Academy of Arts and Sciences KNAW (2000-2005)  
Chairman Geoscientific Knowledge Council of NITG-TNO/Netherlands Geological Survey (2000-2005)  
Member Scientific Council ITC (1999-2006)  
Member of the Advisory Board of the Environmental Science Group, Wageningen UR (2000-2004)  
Chairman of the Royal Netherlands Geological and Mining Society (1991-1997)  
Chairman of the Netherlands Soil Science Society (1988-1991)  
Vice-Chairman Board of WOTRO (NWO, Netherlands Foundation for Scientific Research in the Tropics (1994-2000)  
Member of the Board of AWON (Earth Science Research Organization of NWO) (1985-1993)  
Member INQUA Commission Nederland of the Royal Netherlands Academy of Sciences (1982-1997)  
Member Commission for the Geological Sciences of the Royal Netherlands Academy of Sciences (CGW-KNAW)(1982-1995)  
Member Science Profile Commission.Ministry of Education, Arts and Science (2004-2007)

## MEMBERSHIPS AND AFFILIATIONS

Royal Netherlands Geological and Mining Society (KNGMG), including Sedimentological, Geomorphological and Mineralogical, Petrological and Mining Circles  
Geologische Vereinigung (GV, Germany)  
Association Française pour l'Étude du Quaternaire (AFEQ)  
Association of Geoscientists for International Development (AGID)  
European Union of Geoscientists (EUG)  
Geoinformation Netherlands  
International Association of Sedimentologists (IAS)  
Society of Economic Palaeontology, Mineralogy (SEPM)  
European Association of Geoscientists and Engineers (EAGE)

## EXTERNAL PEER REVIEWS

2012 Member Accreditation Committee BSc Future Planet Studies University of Amsterdam  
2011 Chairman Accreditation Committee MSc Petroleum Geology, Universiteit van Suriname  
2009-2010 Chairman, International Peer Review Committee Earth Science Educational Programmes in Flanders, Belgium (University of Ghent and Leuven) (VLIR)  
2009 Member Peer Review Committee Earth Science Education at Tallinn University of Technology, Estonia  
2006 Member Peer Review committee Scientific research Programme ITC Enschede  
2004 Chairman NVAO review committee Geoarchaeology  
2003 Member International Peer Review Committee Earth Science Educational Programmes in Flanders, Belgium (University of Ghent, Brussels and Leuven) (VLIR)  
2002 Chairman External Review Committee Educational Programme ITC Enschede.  
1999 Member peer review committee Library Delft University of Technology  
1993 External member Evaluation Committee Tropenbos-Colombia Programme

## TEACHING EXPERIENCE

### **Regular courses taught**

General geology  
Geomorphology of the Earth and Quaternary Geology  
Geomorphology of Europe  
Environmental geology and geochemistry  
Landscape and soils  
Regional geology of the Netherlands  
Regional geology of (parts of) South and Central America  
Remote sensing techniques  
Climate history of the earth  
Sedimentology and sedimentary basins  
Mineralogy and Petrology (practical)  
Geological Aerial Photo Interpretation (practical)  
Methods of geological research (practical)  
Sequence Stratigraphy

### **Special courses taught:**

2015 Summer School Russian Geographical Society <http://www.rgo.ru/ru/article/nachala-rabotu-iii-letnyaya-shkola-rgo>  
2002-2004, 2007 Sedimentology and sedimentary basins; part of Course Petroleum Technology, Universiteit van Suriname, Paramaribo  
2002 Sedimentología y análisis de cuencas, PDVSA, Caracas, 2002  
1996-1998 Geology for hydrologists, IHE, Delft  
1994, 1995 PAON courses on Bottom sediments (Waterbodems), with H.J. Winkels, RIZA  
1980 Special course on Geomorphology, CIAF, Bogotá  
1979 Photointerpretation course for INGEOMINAS geologists, Bogotá, Medellín, Popayán  
1973-1978: Physical geography, Instituut voor de Opleiding van Leraren (Teachers' Training Institute), Paramaribo, Suriname

**Field excursions guided:** geology, geomorphology, Quaternary geology, photogeology, in the Netherlands, Belgium and Luxembourg (Ardennes), Germany (Eifel, Odenwald, Rheinhessen), France (Central Massif, Prealpes), Spain (Southern Pyrenees, Betic Cordilleras), England (south).

**MSc guidance:** supervision over 150 MSc theses (Wageningen, Delft), University of Suriname (2014-2019).

**Course director** of the 5-years MSc course in Applied Earth Sciences (300 students) at Delft University of Technology (1997-2002)

**External examiner** MSc Earth Resources and Environmental Geoinformation ITC Enschede

**Board geologist on tourist cruises** to Spitsbergen, Antarctica, Alaska, East-Greenland.

## PhD RESEARCH PROJECTS

*Sedimentary geology and geomorphology: Cenozoic fluvial dynamics in relation to climate change, tectonics and volcanism*

1. Bakker, J.G.M. (1985-1990; completed) Tectonic and climatic controls on Late Quaternary sedimentary processes in a neotectonic intramontane basin (the Pitalito Basin, South Colombia). Thesis Wageningen Agricultural University, 160 pp, 1990. Financed by WAU (Wageningen Agricultural University)
2. Van der Wiel, A.M. (1986-1991; completed) Uplift and volcanism in the SE Colombian Andes and its relation to Neogene sedimentation in the Upper Magdalena Basin. Thesis WAU 260 pp, 1991. (Financed by WOTRO/NWO (National Science Foundation) and WAU)
3. Veldkamp, A. (1988-1991, completed) Quaternary River Terrace Formation in the Allier Basin, France. A Reconstruction based on sand bulk geochemistry and 3-D modelling. Thesis Agricultural University Wageningen, 172 pp, 1991. (Cooperation with Université Blaise Pascal, Clermont Ferrand) (Financed by AWON/NWO, WAU)
4. Hoorn, M.C. (1990-1994; completed) Miocene paleoecology and paleogeography of the Western Amazon Basin, 1994 Thesis University of Amsterdam; promotors Prof. Thomas van der Hammen, Prof.

Dr. S.B. Kroonenberg (Financed by WOTRO/NWO, University of Amsterdam, WAU and Tropenbos/Colombia Foundation; Cooperation with Turku University, Finland and various Colombian Institutes)

5. Nieuwenhuysse, A. (1988-1996, completed) Landscape formation and soil genesis in volcanic parent material in the humid tropical lowlands of Costa Rica. Thesis WAU, 131 pp. (Cooperation with various Costa Rican Institutes (Financed by WAU)
6. Van den Berg, M.W. (1991-1996, completed) Fluvial sequences of the Maas. A 10 Ma record of tectonics and climate change. (Financed by Geological Survey of the Netherlands, WAU), 181 pp.
7. Van Dijke, J.J. (1993-1997; discontinued) Landscape turnover rates in the footslopes of the Atlantic Zone of Costa Rica. (Cooperation with various Cost Rican Institutes (Financed by WOTRO/NWO and WAU)

#### *Sediment geochemistry*

8. Huisman, D.J. (1993-1998, completed) Geochemical characteristics of soil and subsoil of the Netherlands. (Financed by and in cooperation with WAU, Geological Survey of the Netherlands, National Institute of Public Health and Environmental Research RIVM)
9. Tebbens, L.A. (1993-1999, completed) Variability of fluvial sediment composition in different time scales: assessing the impact of climatic change. (Financed by NWO-Global Change, WAU, Cooperation with Utrecht University, Free University of Amsterdam)
10. Aseeva, E.N. (1992-2005, completed) Environmental geochemistry Guadalhorce basin, Southern Spain (Financed by WAU and TUD, cooperation with the University of Málaga, Moscow State University)
11. Tarusova, O.V. (1993-1997, discontinued) Environmental geochemistry of the Wolga delta sediments, Caspian sea. Cooperation with Moscow State University, Astrakhan' Man and Biosphere Reserve, Rijkswaterstaat Lelystad, ITC-Enschede, CETA (Gorizia, Italy), DHI (Denmark) (Financed by NWO and INTAS, European Union)
12. Winkels, H.J. (1991-1998, completed) Modelling the distribution of polluted Rhine sediment in Lake IJsselmeer between 1932 and 2000. (Financed by Rijkswaterstaat RIZA-Lelystad, WAU)

#### *Remote sensing*

13. Epema, G.F. (1986-1991; completed) Spectral reflectance in a Tunisian desert. Thesis Wageningen Agricultural University Wageningen, 1991. (Financed by National Remote Sensing Programme (BCRS) and WAU).
14. Van der Meer, F.D. (1992-1995; completed) Imaging spectroscopy and the Ronda Peridotite. Promotors Prof. Dr. S.B. Kroonenberg (WAU) and Prof. Dr. A.G. Fabbri (ITC). (Financed by ITC-Enschede)
15. Schetselaar, E.M. (1992-2000, completed) Integrated analyses of granite-gneiss terrain from field and multisource remotely sensed data. A case study from the Canadian Shield. Promotors: Prof. Dr. S.B. Kroonenberg (WAU), Prof. Dr. A.G. Fabbri (ITC-Enschede). Financed by ITC-Enschede
16. Zhang Xiangmin (1994-1998 completed) Detection, measurement and monitoring of spontaneous combustion of coals in northern China. Promotors: Prof. Dr. S.B. Kroonenberg (WAU) et Prof. Dr. J. van Genderen (ITC-Enschede). Financed by ITC, EU, Chinese institutes.
17. Yang Hong (1997-1999, completed) Imaging spectrometry for hydrocarbon microseepage, Promotor S.B. Kroonenberg, Copromotor F.D. van der Meer, funding ITC
18. Scholte, K.H. (2000-2005, completed) Hyperspectral Imaging and mud volcanism in Azerbaijan, together with Prof. Dr.F.D. van der Meer.

#### *Process-based modelling of sedimentary systems*

19. I. Overeem, (1997-2002, completed) A simulation model of the Neogene-Quaternary fluvial-deltaic architecture of the SW North Sea Basin. Part of NEESDI programme, funded by TUD and NWO.
20. J.E.A. Storms (1998- 2002, completed, cum laude) Process-based modelling of the formation of barrier-type reservoirs Funded by DIOC-DUT
21. L.J.H. Alberts (2000-2005, completed) Predicting compaction in reservoirs from process-response models of barrier systems. Funding DIOC 3.3 DUT
22. R.M. Hoogendoorn (2000-2006, completed) Modelling the impact of rapid sea-level rise on deltaic systems. Funding: DIOC-Water, DUT.
23. R. Groenenberg (2001-2007, completed) Process-based modelling of turbidites. Funding: EURODelta-programme EU, DUT.
24. B. Ibrahimov (2001-2005) Sequence stratigraphy in closed basins: the Pliocene Volga and Kura Deltas in the Caspian Sea, Azerbaijan. Funding: WOTRO-NWO/DGIS programme

25. A.J. Kettner (2004-2007 completed) Numerical modelling of fluvial sediment supply to marine basins. Funding Delft Earth, INSTAAR (USA)
26. R.A.F. Dalman (2004-2008) Nested modelling of clastic, continental-margin stratigraphy, Delft Earth
27. M.B. Brommer 2004-2009 (completed) Mass-balanced stratigraphy - Data-model comparison within a closed system (Adriatic Sea, Italy). Co-promotor Dr G.J. Weltje Funding NWO
28. A. Abdollahi Kakroodi (2002-2012, completed): Caspian sea level change along the Iranian Caspian coasts
29. D. Ranawijaya, (2007-2012, discontinued) Impact of decadal climatic cycles on sedimentation in the modern Mahakam Delta, Indonesia (EKP, programme)
30. I.L. de Winter (2007-2012; discontinued) Modelling glaciofluvial sediment output along major ice caps (Greenland, Norway)
31. R. Naipal (2018-2021) Ultramafic rocks in Suriname (Anton de Kom University of Suriname/Utrecht University)

## OTHER RESEARCH PROGRAMMES

- 1986-1991 WAU VF 86-09 Programme Variability in landscape soil and vegetation and their significance for land use (Limagne, France) (1986-1991) (programme coordinator)
- 1985-1993 WAU VF 89-71 Dynamics of Quaternary Geo- and Ecosystems (Wageningen part; together with Free University, Amsterdam and University of Amsterdam) (programme coordinator)
- 1988-1993 WAU VF 90-61 Programme Methodology of sustainable land use planning, Costa Rica (programme coordinator)
- 1993-1995 NWO, Application of GIS techniques for the management of the Astrakhan Man and Biosphere Reserve (Nf 125,000. Participants: ITC, AUW, MSU, AMBR)
- 1994-1996 INTAS-EU 94-3382 Geochemical changes in soils and bottom sediments as a result of rapid sea level rise in the Caspian. INTAS, 60,000 ECU. Participants: AUW, Moscow State University, Astrakhan Man and Biosphere reserve, ITC, Rijkswaterstaat, DHI (Denmark), CETA (Italy).
- 1994-1996 NWO (047.003.010.00.95) Nfl 25,000 granted by NWO for support of INTAS project
- 1998-2000 NWO 047.011.000.0, Coastal processes along Caspian Shores, 156,000 NFL, TUD, MGU (Moscow), Caspian Marine Research Institute (Astrakhan)
- 2000-2002 INTAS-EU project 99-139: Sequence stratigraphy in closed basins: the Pliocene and Recent deltas of the Volga river, 60,000 EURO with TUD, MGU, University of Aberdeen (UK) & Geological Institute of Azerbaijan
- 2001-2003 NWO Holocene sea-level change in the Caspian Sea: a proxy for the North Atlantic Oscillation? 175,000 NFL, TUD, Naturalis, Free University, Moscow State University, Institute of Ecology University of Dagestan, Russia
- 2001-2002 BP, Shell, Conoco; The modern Kura delta, Azerbaijan, as an analogue for the hydrocarbon-bearing Paleo-Kura delta sediments (Productive Series, South Caspian Basin). 150,000 US\$ TUD, CASP Cambridge, University of Aberdeen, Geology Institute Azerbaijan Academy of Sciences
- 2002-2004 EU 5<sup>th</sup> FP, EES Eurodelta programme, as one of 12 partners
- 2002-2004 EU 5<sup>th</sup> FP, EES, Eurostrataform programme, 4MEur, as one of 22 partners, linked with the US Strataform consortium (University of Colorado)
- 2003-2008 Coordinator UNESCO-IGCP programme 481 Dating Caspian sea Level Change.
- 2005-2008 NWO-Russia programme VHR seismic stratigraphy and paleoecology of the Holocene Volga delta 150 kEUR
- 2005-2008 BP Unraveling the small-scale stratigraphy and sediment dynamics of the modern Volga delta using VHR marine geophysics, BP-ACG consortium, 338 kEUR
- 2005-2009 The Holocene record of Caspian Sea level change in the offshore Kura delta, Azerbaijan. INTAS-EU, 150 kEUR
- 2007-2011 Coordinator East Kalimantan Programme *Upsetting the balance in the Mahakam Delta: past, present and future impacts of sea-level rise, climate change, upstream controls and human intervention on sediment and mangrove dynamics*, 5 PhD students, 3 postdocs
- 2009-2014 Agência Brasileira de Cooperação, CPRM Brasil, Geologisch Mijnbouwkundige Dienst Suriname, Universiteit van Suriname, Geologia e Geodiversidade Suriname-Brasil, Borderproject, participant.
- 2009-2014 Geological map of South America Sheet NA.21 Tumucumaque,. CPRM Brasil, GMD Suriname, Universiteit van Suriname, participant.
- 2015-2019 Chairman Scientific Advisory Board EU-Horizon 2020 International Training Network Programme PRIDE (Drivers of Pontocaspian Biodiversity Rise and Demise), [www.pontocaspian.eu](http://www.pontocaspian.eu).
- 2017-2020 Co-organiser AMIRA South American Exploration Initiative [www.saxiproject.org](http://www.saxiproject.org)

**PUBLICATIONS S.B. KROONENBERG (see for downloadable versions [www.researchgate.net](http://www.researchgate.net))**

*Full papers*

1. Sevink, J., Hulshof, O.K., Múcher, H.J. & S.B. Kroonenberg 1970 Age and development of some fossil podzols in the Dinkel Valley (E Netherlands). in "From Field to Laboratory", Publ. Fys. Geogr. Bodemk. Lab. Amsterdam, 16:133-148.
2. Múcher, H.J., Carballas, T., Guitián Ojea, F., Jungerius P.D., Kroonenberg, S.B. & Villar M.C. 1972 Micromorphological analysis of effects of alternating phases of landscape stability and instability on two soil profiles in Galicia, NW Spain. *Geoderma*, 8:241-266.
3. Kroonenberg, S.B. 1973 Preliminary note on the geology of the Coeroeni-Lucie area, SW Suriname. 2<sup>nd</sup> Congr. Latinoam. Geol., Caracas, Proc.: *Boletín de Geología (Caracas)* Publ. Especial no.7,2, 459-469 (1976)
4. Kroonenberg, S.B. 1975 Polymetamorphism in pelitic gneisses and amphibolites of the Coeroeni Group, SW Suriname. *Anais 10ma Conf. Geol. Interguianas, Belem do Para, Brasil*, 1:414-429
5. Kroonenberg, S.B. 1975 Geology of the Sisa Creek area, SW Suriname. *Geol. Mijnb. Dienst Sur., Med* 23, 102-125.
6. Kroonenberg, S.B. 1975 Possible quarry sites for the Bakhuis Railroad. *Geol. Mijnb. Dienst Sur., Med* 23: 214-220
7. Kroonenberg, S.B. & De Roever, E.W.F. 1975 Dumortierite in cordierite pseudomorphs and in shear zones in high-grade metamorphic rocks from western Suriname. *Geol. Mijnb. Dienst Sur., Med* 23, 255-259.
8. Kroonenberg, S.B. 1976 Amphibolite facies and granulite-facies metamorphism in the Coeroeni-Lucie area, southwestern Surinam. PhD Thesis, Univ. Amsterdam; issued in *Geol. Mijnb. Dienst Sur., Med* 25, 101-289.
9. Boomert, A. & S.B. Kroonenberg 1977 Manufacture and trade of stone artifacts in prehistoric Surinam. *in*: B.L. van Beek et al (eds.): *Ex Horreo*, Publ. Inst. Pre- en Protohistorie, Amsterdam, 9-44.
10. Priem, H.N.A., Boelrijk, N.A.I.M., Hebeda, E.H., Kroonenberg, S.B., Verdurmen, E.A.Th & Verschure, R.H. 1977 Isotopic ages in the high-grade metamorphic Coeroeni Group, southwestern Suriname. *Geol. & Mijnb.*, 56, 155-160.
11. Kroonenberg, S.B. 1978 Precambrian paleosols at the base of the Roraima Formation in Surinam. *Geol. & Mijnb.*, 57:445-450
12. Khobzi, J., S.B. Kroonenberg, P. Faivre & A. Weeda 1980 Aspectos geomorfológicos de la Amazonia y Orinoquia colombianas. *Revista CIAF, Bogotá*, 5,1, 97-126.
13. Kroonenberg, S.B. 1980 Petrografía y edad de algunos gneises cordieríticos del Guainía, Amazonia colombiana. *Revista CIAF (Bogotá)*, 5,1, 213-218.
14. Kroonenberg, S.B., A. Leon, J.M. Pastana & M.R. Pessoa 1980 Ignimbritas plio-pleistocénicas en el suroeste del Huila, Colombia, y su influencia en el desarrollo morfológico. *Memoria Primer seminario sobre el Cuaternario de Colombia, Revista CIAF (Bogotá)* 6, 1-3, 293-314.
15. Kroonenberg, S.B. 1980 Mármoles y rocas calcosilicatadas en el Macizo de Garzón cerca de La Jagua, Huila, Colombia. *Geología norandina (Bogotá)*, 2, 11-16.
16. Kroonenberg, S.B. 1981 El borde occidental del Escudo de Guayana en Colombia. *Symposium Amazónico, Puerto Ayacucho, Venezuela, marzo 1981. Resúmenes p. 41-42. Publ. CIAF, 41 pp. Memoria: Boletín de Geología, (Caracas), Publ. Especial 10, p. 51-63(1985)*
17. Kroonenberg, S.B. & H. Diederix 1982 Geology of South-Central Huila, Uppermost Magdalena Valley, Colombia. *Field Guide 21st Annual Field Conference Colomb. Soc. Petroleum Geol. & Geophys.*, 39 p., 1 map.
18. Kroonenberg, S.B., H. Pichler & H. Diederix 1982 Cenozoic alkalibasaltic to ultrabasic volcanism in the Uppermost Magdalena Valley, South-central Huila Department, Colombia. *Geología norandina (Bogotá)*, 5: 19-26.
19. Kroonenberg, S.B. 1982 A Grenvillian granulite belt in the Colombian Andes and its relation to the Guiana Shield. *Geologie & Mijnbouw*, 61:325-333.
20. Bosma, W., S.B. Kroonenberg, K. Maas & E.W.F. De Roever 1983 Igneous and metamorphic complexes of the Guiana Shield in Suriname. *Geologie & Mijnbouw*, 62:241-254.
21. Kroonenberg, S.B., & P.J. Melitz 1983 Summit levels, bedrock control and the etchplain concept in the basement of Suriname. *Geologie & Mijnbouw*, 62:389-399.
22. Kroonenberg, S.B. 1983 Aportes de la teledetección a la geomorfología. *Memoria Primer Simposio Colombiano sobre Sensores Remotos, Bogotá, 1981, Revista CIAF (Bogotá)*, 8:337-345.

23. Kroonenberg, S.B. 1983 Litología, metamorfismo y origen de las granulitas del Macizo de Garzón, Cordillera Oriental (Colombia). *Geología norandina* (Bogotá), 6:39-46.
24. Kroonenberg, S.B. 1983 The contribution of remote sensing to geomorphology. in: R Mower, M. Ardila & W.A. Dando (eds) *Selected papers from the first Colombian Symposium on Remote Sensing*. Inst. Remote Sensing, Univ. North Dakota publ., 44-48.
25. Premoli, C., & S.B. Kroonenberg 1984 Radioactive minerals potential of carbonatites in western parts of the South American Shields. *in: Geology and Metallogenesis of uranium deposits in South America*. Proceedings of Working Group Meeting, San Luis, Argentina, 1981, International Atomic Energy Agency STI/PUB/641 p. 245-268.
26. De Vletter, D.R. & S.B. Kroonenberg 1984 Review of some outstanding problems in the Precambrian Geology of Suriname. *Anais II Symposium Amazonico*, Abril 1984, Manaus, Brazil, pp. 163-170
27. Bosma, W., S.B. Kroonenberg R.V. Van Lissa K. Maas & E.W.F. De Roever 1984 An explanation to the geological map of Suriname. *Geol. Mijnb. Dienst Suriname.*, Med. 27:31-42.
28. Kroonenberg, S.B. & H. Diederix 1985 Geology *in: R.D. Drennan* (ed.), *Regional Archaeology in the Valle de La Plata*, Colombia. *Research Repts 11*, Museum of Anthropology, University of Michigan Techn. Rep. 16, 23-40.
29. Kroonenberg, S.B. 1985 De klimaatgeschiedenis van Noord-Oost Siberie, een vergelijking met die van Nederland. *Geogr. Tijdschr.*, 19:346-353.
30. Kroonenberg, S.B., R.M. Van Den Berg Van Saparoea & A.T.J. Jonker 1987 Late Glacial and Holocene development of semi-closed depressions (thaw lakes?) in the Limagne Rift Valley, French Central Massif. *Geologie & Mijnbouw* 66, 4: 297-311.
31. Kroonenberg, S.B., H. Pichler & C. Schmitt-Riegraf 1987 Young alkalibasaltic to nephelinitic volcanism in the southern Colombian Andes - Origin by subduction of a spreading rift? *Zbl. Geol. Palaeont. Teil 1*, 919-936.
32. De Vletter, D.R. & S.B. Kroonenberg 1987 The granitoid-volcanic complex of Suriname. in: *Precambrian evolution of the Amazonian Region*, Final meeting of the Working group, Carajás, Brazil, september 9-14, extended abstracts :55-65.
33. Boll, J, T.J. M. Thewessen, E.L. Meijer & S.B. Kroonenberg 1988 A simulation of the development of river terraces. *Zeitschrift fur Geomorphologie*, 32,1, 31-45.
34. Moura, M.L. & S.B. Kroonenberg 1988 Major and minor elements geochemistry and mineralogy of four soil profiles from Araracuara, Colombian Amazonas. *Catena* 15,1:81-97.
35. Kroonenberg, S.B., M.L. Moura & A.T.J. Jonker 1988 Geochemistry of the sands of the Allier river terraces, France *Geologie & Mijnbouw*, 67:75-89
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