

Anne Probst

List of Publications by Year in descending order

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125
papers

5,987
citations

76326

40
h-index

76900

74
g-index

131
all docs

131
docs citations

131
times ranked

6627
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling daily Dissolved Oxygen Dynamics in the Sebou River (Morocco): Data-Centric Approaches. , 2022, , .		0
2	Interactive effects of metals and carbon nanotubes in a microcosm agrosystem. Journal of Hazardous Materials, 2022, 431, 128613.	12.4	2
3	Potential influence of landscape transition on stream water chemistry trends during the last decades in a karst catchment (Pyrenees, SW France) in a context of global environmental changes. Ecological Indicators, 2022, 140, 109023.	6.3	3
4	Do pesticides degrade in surface water receiving runoff from agricultural catchments? Combining passive samplers (POCIS) and compound-specific isotope analysis. Science of the Total Environment, 2022, 842, 156735.	8.0	8
5	The Role of Ponds in Pesticide Dissipation at the Agricultural Catchment Scale: A Critical Review. Water (Switzerland), 2021, 13, 1202.	2.7	20
6	Intermittent rivers and ephemeral streams: Perspectives for critical zone science and research on socio-ecosystems. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1523.	6.5	31
7	Why comparison between different chemical extraction procedures is necessary to better assess the metals availability in sediments. Journal of Geochemical Exploration, 2021, 225, 106762.	3.2	17
8	Role of Pond Sediments for Trapping Pesticides in an Agricultural Catchment (AuradÃ©, SW France): Distribution and Controlling Factors. Water (Switzerland), 2021, 13, 1734.	2.7	9
9	Influence of ponds on hazardous metal distribution in sediments at a catchment scale (agricultural) Tj ETQq1 1 0.784314 rgBT13/Overlo	12.4	13
10	Stream Hydrochemical Response to Flood Events in a Multi-Lithological Karstic Catchment from the Pyrenees Mountains (SW France). Water (Switzerland), 2021, 13, 1818.	2.7	6
11	Spatial variation of denitrification and key controlling factors in streams and ponds sediments from a critical zone (southwestern France). Applied Geochemistry, 2021, 131, 105009.	3.0	7
12	Chemical weathering and CO2 consumption in a multi-lithological karstic critical zone: Long term hydrochemical trends and isotopic survey. Chemical Geology, 2021, 585, 120567.	3.3	12
13	Building a shared vision of the future for multifunctional agricultural landscapes. Lessons from a long term socio-ecological research site in south-western France. Advances in Ecological Research, 2021, , 57-106.	2.7	10
14	Multi-Indices Assessment of Origin and Controlling Factors of Trace Metals in River Sediments from a Semi-Arid Carbonated Basin (the Sebou Basin, Morocco). Water (Switzerland), 2021, 13, 3203.	2.7	8
15	Long and short-term trends of stream hydrochemistry and high frequency surveys as indicators of the influence of climate change, agricultural practices and internal processes (Aurade agricultural) Tj ETQq1 1 0.784314 rgBT13/Overlo	12.4	13
16	Global warming and acid atmospheric deposition impacts on carbonate dissolution and CO2 fluxes in French karst hydrosystems: Evidence from hydrochemical monitoring in recent decades. Geochimica Et Cosmochimica Acta, 2020, 270, 184-200.	3.9	33
17	A Forty-Year Karstic Critical Zone Survey (Baget Catchment, Pyrenees-France): Lithologic and Hydroclimatic Controls on Seasonal and Inter-Annual Variations of Stream Water Chemical Composition, pCO2, and Carbonate Equilibrium. Water (Switzerland), 2020, 12, 1227.	2.7	15
18	What Can Be Learned about the Relationships between Water Discharge and Composition during Flood Events in a Forested Karstic Catchment from the Pyrenees Mountains (Southwestern France)?. , 2020, 7, .		0

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19	Contamination Intensity and Origin of Trace Metals in the Bottom Sediments from the Sebou Basin (NW Morocco)., 2020, 7, .		0
20	Buried Paleosols as Reference Objects for Assessing the Current Level of Soil Pollution with Lead in the Lower Volga Steppes. Eurasian Soil Science, 2019, 52, 34-49.	1.6	3
21	Origin, distribution, and behaviour of rare earth elements in river bed sediments from a carbonate semi-arid basin (Tafna River, Algeria). Applied Geochemistry, 2019, 106, 96-111.	3.0	24
22	High-frequency monitoring of surface water quality at the outlet of the Ibrahim River (Lebanon): A multivariate assessment. Ecological Indicators, 2019, 104, 13-23.	6.3	29
23	Reduction of stream nitrate concentrations by land management in contrasted landscapes. Nutrient Cycling in Agroecosystems, 2019, 114, 1-17.	2.2	13
24	Dynamics of the seagrass <i>Zostera noltei</i> in a shallow Mediterranean lagoon exposed to chemical contamination and other stressors. Estuarine, Coastal and Shelf Science, 2019, 222, 1-12.	2.1	13
25	Twenty-five year record of chemicals in open field precipitation and throughfall from a medium-altitude forest catchment (Strengbach - NE France): An obvious response to atmospheric pollution trends. Atmospheric Environment, 2019, 202, 296-314.	4.1	24
26	Disturbance and resilience of a granitic critical zone submitted to acid atmospheric influence (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 nineties. Journal of Hydrology, 2019, 569, 77-92.	5.4	2
27	Early stage litter decomposition across biomes. Science of the Total Environment, 2018, 628-629, 1369-1394.	8.0	177
28	Anthropogenic contribution and influencing factors on metal features in fluvial sediments from a semi-arid Mediterranean river basin (Tafna River, Algeria): A multi-indices approach. Science of the Total Environment, 2018, 626, 899-914.	8.0	25
29	Bioturbation effects on bioaccumulation of cadmium in the wetland plant <i>Typha latifolia</i> : A nature-based experiment. Science of the Total Environment, 2018, 618, 1284-1297.	8.0	28
30	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	2.2	126
31	The Strengbach Catchment: A Multidisciplinary Environmental Sentry for 30 Years. Vadose Zone Journal, 2018, 17, 1-17.	2.2	32
32	SNO KARST: A French Network of Observatories for the Multidisciplinary Study of Critical Zone Processes in Karst Watersheds and Aquifers. Vadose Zone Journal, 2018, 17, 1-18.	2.2	37
33	Geochemical composition of fluvial sediments in the Milo River basin (Guinea): is there any impact of artisanal mining and of a big African city, Kankan?. Journal of African Earth Sciences, 2018, 145, 102-114.	2.0	14
34	Modelling trace metal transfer in large rivers under dynamic hydrology: A coupled hydrodynamic and chemical equilibrium model. Environmental Modelling and Software, 2017, 89, 77-96.	4.5	19
35	Atmospheric and terrigenous metal accumulation over 3000 years in a French mountain catchment: Local vs distal influences. Anthropocene, 2017, 19, 45-54.	3.3	26
36	Evaluation of lichen species resistance to atmospheric metal pollution by coupling diversity and bioaccumulation approaches: A new bioindication scale for French forested areas. Ecological Indicators, 2017, 72, 99-110.	6.3	29

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37	Paramètres influençant la distribution des éléments traces métalliques dans les affluents du fleuve Garonne (France). <i>International Journal of Biological and Chemical Sciences</i> , 2017, 11, 1363.	0.2	0
38	Extracting Soil Water Holding Capacity Parameters of a Distributed Agro-Hydrological Model from High Resolution Optical Satellite Observations Series. <i>Remote Sensing</i> , 2016, 8, 154.	4.0	16
39	Retention of nutrients, suspended particulate matter and phytoplankton in a pondage associated with a run-of-river type hydroelectric power plant. <i>Ecohydrology</i> , 2016, 9, 229-237.	2.4	8
40	Trace elements and Pb isotopes in soils and sediments impacted by uranium mining. <i>Science of the Total Environment</i> , 2016, 566-567, 238-249.	8.0	39
41	Contrasted spatial and long-term trends in precipitation chemistry and deposition fluxes at rural stations in France. <i>Atmospheric Environment</i> , 2016, 146, 28-43.	4.1	38
42	Chemical weathering and consumption of atmospheric carbon dioxide in the Alpine region. <i>Global and Planetary Change</i> , 2016, 136, 65-81.	3.5	46
43	Modelling the impact of climate change and atmospheric N deposition on French forests biodiversity. <i>Environmental Pollution</i> , 2016, 213, 1016-1027.	7.5	21
44	Investigation of spatial and temporal metal atmospheric deposition in France through lichen and moss bioaccumulation over one century. <i>Science of the Total Environment</i> , 2015, 529, 285-296.	8.0	44
45	Influence of anthropogenic inputs and a high-magnitude flood event on metal contamination pattern in surface bottom sediments from the Deba River urban catchment. <i>Science of the Total Environment</i> , 2015, 514, 10-25.	8.0	62
46	Flood survey of nitrate behaviour using nitrogen isotope tracing in the critical zone of a French agricultural catchment. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 328-337.	1.2	16
47	Combined effect of atmospheric nitrogen deposition and climate change on temperate forest soil biogeochemistry: A modeling approach. <i>Ecological Modelling</i> , 2015, 306, 24-34.	2.5	32
48	Modelling of trace metal transfer in a large river under different hydrological conditions (the Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 302	2.5	15
49	Use of geochemical signatures, including rare earth elements, in mosses and lichens to assess spatial integration and the influence of forest environment. <i>Atmospheric Environment</i> , 2014, 95, 96-104.	4.1	36
50	Origin and distribution of rare earth elements in various lichen and moss species over the last century in France. <i>Science of the Total Environment</i> , 2014, 487, 1-12.	8.0	59
51	Continuous measurement of nitrate concentration in a highly event-responsive agricultural catchment in south-west of France: is the gain of information useful?. <i>Hydrological Processes</i> , 2013, 27, 1751-1763.	2.6	43
52	Origin and fate of copper in a small Mediterranean vineyard catchment: New insights from combined chemical extraction and ⁶⁵ Cu isotopic composition. <i>Science of the Total Environment</i> , 2013, 463-464, 91-101.	8.0	57
53	Lead content and isotopic composition in submountain and recent soils of the Volga Upland. <i>Eurasian Soil Science</i> , 2013, 46, 1059-1075.	1.6	11
54	Significance of floods in metal dynamics and export in a small agricultural catchment. <i>Journal of Hydrology</i> , 2013, 499, 71-81.	5.4	48

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55	Modelling trace metal background to evaluate anthropogenic contamination in arable soils of south-western France. <i>Geoderma</i> , 2013, 206, 112-122.	5.1	27
56	Comparing early twentieth century and present-day atmospheric pollution in SW France: A story of lichens. <i>Environmental Pollution</i> , 2013, 172, 139-148.	7.5	44
57	Assessment of the effects of best environmental practices on reducing pesticide contamination in surface water, using multi-criteria modelling combined with a GIS. <i>International Journal of Multicriteria Decision Making</i> , 2013, 3, 178.	0.2	18
58	Comparison of Levels and Sources of Lead in Modern and Ancient Soils in Low Volga Steppes. <i>E3S Web of Conferences</i> , 2013, 1, 08002.	0.5	0
59	Large scale atmospheric contribution of trace elements registered in foliose lichens in remote French areas. <i>E3S Web of Conferences</i> , 2013, 1, 29001.	0.5	3
60	Long-Term Field Metal Extraction by <i>Pelargonium</i> : Phytoextraction Efficiency in Relation to Plant Maturity. <i>International Journal of Phytoremediation</i> , 2012, 14, 493-505.	3.1	60
61	Localisation and mobility of trace metal in silver fir needles. <i>Chemosphere</i> , 2012, 87, 204-210.	8.2	30
62	Toxicity of Pb and of Pb/Cd combination on the springtail <i>Folsomia candida</i> in natural soils: Reproduction, growth and bioaccumulation as indicators. <i>Science of the Total Environment</i> , 2012, 414, 187-197.	8.0	56
63	Interactions between cadmium and lead with acidic soils: Experimental evidence of similar adsorption patterns for a wide range of metal concentrations and the implications of metal migration. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 358-366.	12.4	20
64	Impact of nitrogenous fertiliser-induced proton release on cultivated soils with contrasting carbonate contents: A column experiment. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1185-1198.	3.9	71
65	Understanding nitrogen transfer dynamics in a small agricultural catchment: Comparison of a distributed (TNT2) and a semi distributed (SWAT) modeling approaches. <i>Journal of Hydrology</i> , 2011, 406, 1-15.	5.4	80
66	Applications of stable water and carbon isotopes in watershed research: Weathering, carbon cycling, and water balances. <i>Earth-Science Reviews</i> , 2011, 109, 20-31.	9.1	136
67	Stable carbon isotope evidence for nitrogenous fertilizer impact on carbonate weathering in a small agricultural watershed. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2682-2690.	1.5	33
68	The importance of biomass net uptake for a trace metal budget in a forest stand in north-eastern France. <i>Science of the Total Environment</i> , 2010, 408, 5870-5877.	8.0	33
69	Canopy influence on trace metal atmospheric inputs on forest ecosystems: Speciation in throughfall. <i>Atmospheric Environment</i> , 2010, 44, 824-833.	4.1	67
70	Determining cadmium critical concentrations in natural soils by assessing <i>Collembola</i> mortality, reproduction and growth. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 415-422.	6.0	46
71	Modelling trace metal extractability and solubility in French forest soils by using soil properties. <i>European Journal of Soil Science</i> , 2010, 61, 271-286.	3.9	58
72	Flood event impact on pesticide transfer in a small agricultural catchment (Montoussé at Auradé), Tj ETQq0 0 0 rgBT /Overlock 10 T	3.35	47

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73	Trace elements in stream bed sediments from agricultural catchments (Gascogne region, S-W France): Where do they come from?. <i>Science of the Total Environment</i> , 2009, 407, 2939-2952.	8.0	170
74	Evaluation of streamwater composition changes in the Vosges Mountains (NE France): 1955-2005. <i>Science of the Total Environment</i> , 2009, 407, 4378-4386.	8.0	10
75	Response of <i>Vicia faba</i> L. to metal toxicity on mine tailing substrate: Geochemical and morphological changes in leaf and root. <i>Environmental and Experimental Botany</i> , 2009, 66, 297-308.	4.2	93
76	Distribution and origin of lead in stream sediments from small agricultural catchments draining Miocene molassic deposits (SW France). <i>Applied Geochemistry</i> , 2009, 24, 1324-1338.	3.0	46
77	Contamination of surface waters by mining wastes in the Milluni Valley (Cordillera Real, Bolivia): Mineralogical and hydrological influences. <i>Applied Geochemistry</i> , 2008, 23, 1299-1324.	3.0	92
78	Impact of nitrogenous fertilizers on carbonate dissolution in small agricultural catchments: Implications for weathering CO ₂ uptake at regional and global scales. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3105-3123.	3.9	198
79	Investigation of climate change and history of lead deposition using soil archives. <i>Mineralogical Magazine</i> , 2008, 72, 341-343.	1.4	1
80	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. , 2007, , 151-161.		1
81	Effects of Acid Rain on Competitive Releases of Cd, Cu, and Zn from Two Natural Soils and Two Contaminated Soils in Hunan, China. <i>Water, Air and Soil Pollution</i> , 2007, 7, 151-161.	0.8	13
82	Modeling Acidification Recovery on Threatened Ecosystems: Application to the Evaluation of the Gothenburg Protocol in France. <i>Water, Air and Soil Pollution</i> , 2007, 7, 307-316.	0.8	8
83	Modeling Acidification Recovery on Threatened Ecosystems: Application to the Evaluation of the Gothenburg Protocol in France. , 2007, , 307-316.		1
84	Modelling weathering processes at the catchment scale: The WITCH numerical model. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1128-1147.	3.9	169
85	The impact of vegetation on fractionation of rare earth elements (REE) during water-rock interaction. <i>Journal of Geochemical Exploration</i> , 2006, 88, 341-344.	3.2	12
86	An Overview of Atmospheric Deposition Chemistry over the Alps: Present Status and Long-term Trends. <i>Hydrobiologia</i> , 2006, 562, 17-40.	2.0	114
87	Metal contamination of soils and crops affected by the Chenzhou lead/zinc mine spill (Hunan, China). <i>Science of the Total Environment</i> , 2005, 339, 153-166.	8.0	560
88	Soil heavy metal contamination and acid deposition: experimental approach on two forest soils in Hunan, Southern China. <i>Geoderma</i> , 2005, 127, 91-103.	5.1	36
89	Complex toxic effects of Cd ²⁺ , Zn ²⁺ , and acid rain on growth of kidney bean (<i>Phaseolus vulgaris</i> L). <i>Environment International</i> , 2005, 31, 891-895.	10.0	40
90	Weathering, atmospheric deposition and vegetation uptake: role for ecosystem sensitivity to acid deposition and critical load. <i>Comptes Rendus - Geoscience</i> , 2004, 336, 1417-1426.	1.2	14

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91	Distribution and origin of major and trace elements (particularly REE, U and Th) into labile and residual phases in an acid soil profile (Vosges Mountains, France). <i>Applied Geochemistry</i> , 2004, 19, 899-916.	3.0	97
92	Combined Toxic Effects of Cadmium and Acid Rain on <i>Vicia faba</i> L.. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2003, 71, 998-1004.	2.7	12
93	Heavy metal distribution in some French forest soils: evidence for atmospheric contamination. <i>Science of the Total Environment</i> , 2003, 312, 195-219.	8.0	432
94	Remobilisation of Zn and Pb in a mountain stream contaminated by mining wastes during a moderate flood event (Ariège, France). <i>European Physical Journal Special Topics</i> , 2003, 107, 233-236.	0.2	2
95	Heavy metals partitioning in three French forest soils by sequential extraction procedure. <i>European Physical Journal Special Topics</i> , 2003, 107, 1103-1106.	0.2	18
96	Heavy metals in some French forest soils: Distribution, origin and controlling factors. <i>European Physical Journal Special Topics</i> , 2003, 107, 1107-1110.	0.2	6
97	Critical loads for lead in France: First results on forest soils. <i>European Physical Journal Special Topics</i> , 2003, 107, 1111-1114.	0.2	4
98	Characterization and migration of atmospheric REE in soils and surface waters. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3339-3350.	3.9	118
99	Evidence of hydrological control of Sr behavior in stream water (Strengbach catchment, Vosges) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 84</i>	3.0	84
100	Hydrograph separation using isotopic, chemical and hydrological approaches (Strengbach catchment,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	5.4	188
101	REE fractionation during granite weathering and removal by waters and suspended loads: Sr and Nd isotopic evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 387-406.	3.9	345
102	Strontium as a tracer of weathering processes in a silicate catchment polluted by acid atmospheric inputs, Strengbach, France. <i>Chemical Geology</i> , 2000, 170, 203-219.	3.3	139
103	Spatial Variability and Long-Term Trends in Mass Balance of N and S in Central European Forested Catchments. <i>Ecological Studies</i> , 2000, , 405-418.	1.2	8
104	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1999, 114, 395-411.	2.4	31
105	Acidification des eaux de surface et charges critiques d'acidité: le cas du massif des ardennes françaises. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> =, 1999, 328, 29-35.	0.2	0
106	Determination of organic and mineral acidity contributions to the total throughfall acidity: application to French forests. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> =, 1999, 328, 333-339.	0.2	0
107	ŷ pattern of dissolved inorganic carbon in a small granitic catchment: the Strengbach case study (Vosges mountains, France). <i>Chemical Geology</i> , 1999, 159, 129-145.	3.3	137
108	A spatial study of the relationships between streamwater acidity and geology, soils and relief (Vosges,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	5.4	188

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109	Dissolved organic matter contribution to rain water, throughfall and soil solution chemistry. Analisys - European Journal of Analytical Chemistry, 1999, 27, 409-413.	0.4	12
110	Title is missing!. Water, Air, and Soil Pollution, 1998, 105, 43-52.	2.4	41
111	Natural organic matter contribution to throughfall acidity in French forests. Environment International, 1998, 24, 547-558.	10.0	16
112	Evidence of Current Soil Acidification in Spruce Stands in the Vosges Mountains, North-Eastern France. , 1998, , 43-52.		2
113	Mid-term trends in acid precipitation, streamwater chemistry and element budgets in the strengbach catchment (Vosges Mountains, France). Water, Air, and Soil Pollution, 1995, 79, 39-59.	2.4	41
114	Critical loads of acidity to surface waters in the Vosges massif (north-east of France). Water, Air, and Soil Pollution, 1995, 85, 2407-2412.	2.4	21
115	Influence of acid rain on CO2 consumption by rock weathering: Local and global scales. Water, Air, and Soil Pollution, 1995, 85, 1563-1568.	2.4	35
116	Surface Water Acidification in the Vosges Mountains: Relation to Bedrock and Vegetation Cover. , 1995, , 371-386.		9
117	Comparative Hydrochemical Behaviour and Element Budgets of the Aubure (Vosges Massif) and Mont-LozÃre (Southern Massif Central) Norway Spruce Forested Catchments. , 1995, , 203-225.		14
118	Mid-Term Trends in Acid Precipitation, Streamwater Chemistry and Element Budgets in the Strengbach Catchment (Vosges Mountains, France). , 1995, , 39-59.		1
119	Critical Loads of Acidity to Surface Waters in the Vosges Massif (North-East of France). , 1995, , 2407-2412.		0
120	Interception in a mountainous declining spruce stand in the Strengbach catchment (Vosges, France). Journal of Hydrology, 1993, 144, 273-282.	5.4	68
121	Hydrochemical budgets of a small forested granitic catchment exposed to acid deposition: The strengbach catchment case study (Vosges massif, France). Water, Air, and Soil Pollution, 1992, 62, 337-347.	2.4	94
122	Influence of Various Stresses on Ca and Mg Nutrition of a Spruce Stand Developed on Acidic Soil. , 1992, , 465-472.		6
123	Influence of acid atmospheric inputs on surface water chemistry and mineral fluxes in a declining spruce stand within a small granitic catchment (Vosges Massif, France). Journal of Hydrology, 1990, 116, 101-124.	5.4	120
124	Le Bassin Versant du Strengbach a Aubure (Haut-Rhin, Frances) Pour Lâ€™etude du Deperissement Forestier Dans les Vosges (Programme Deforpa) II- Influence des Precipitations Acides sur la Chimie des Eaux de Surface. , 1988, , 829-834.		3
125	The vegetation map of the CNRS going numerical: the geographical database of the vegetation of France. Harmonised vector cover at 1/100000 and georeferenced scan at 1/200000. CyberGeo, 0, , .	0.0	5