

Climate Teleconnections and Predictions

The Seventh Nansen-Zhu Summer School

October 10-14, 2016



China University of Geosciences
Wuhan, China

Summer School Sponsors:



*Institute of Atmospheric Physics (IAP)
Chinese Academy of Sciences (CAS)
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大气科学学院
SCHOOL OF ATMOSPHERIC SCIENCES

*Chengdu University of Information Technology
(CUIT)
Chengdu, China*

Monday, October 10, 2016

09:00 Opening of the Summer School

Prof. Huijun Wang
Funding Director of Nansen-Zhu International Research Centre
Co-chairman of Nansen-Zhu Advisory Board

Prof. Yongqi Gao
Research Director of Nansen Environmental and Remote Sensing Center
Co-director of Nansen-Zhu

Prof. Qingxiang Wan
Vice President of China University of Geosciences

09:30 Photo

Chair: Prof. Jianqi Sun (Director of Nansen-Zhu)

09:45 The impact of climate change on haze pollution in China
Prof. Huijun Wang (Nansen-Zhu/IAP/CAS; NUIST)

10:30 Arctic climate variability and change
Prof. Stein Sandevn, Yongqi Gao (NERSC)

11:15 Coffee and Tea Break

Chair: Prof. Shuanglin Li (CUG)

Presentations from young scientists and students

11:30 The impact of climate change on haze pollution in China
Zhicong Yin (NUIST)

11:45 Arctic change and extreme weather: understand the weather extremes from a climate perspective
Dr Linling Chen (NERSC)

12:00 Tropical Pacific climate response to an abrupt loss of Arctic sea ice
Kun Wang (PKU)

12:15 Solar influences on spatial patterns of Eurasian winter temperature and atmospheric general circulation anomalies
Hezhai Ma (NUIST)

12:30 Lunch

Chair: Prof. Benkui Tan (PKU)

13:30 Inter-decadal changes in the East Asian summer monsoon
Prof. Zhiping Wen (SYSU)

14:15 Linkage of the Southern Hemispheric circulation pattern with the Northern Hemispheric climate
Prof. Jianqi Sun (Nansen-Zhu/IAP/CAS)

15:00 Coffee and Tea Break

Chair: Prof. Yali Zhu (NZC/IAP/CAS)

Presentations from young scientists and students

15:20 Moisture sources for the East Asian monsoon
Astrid Fremme (NERSC)

15:35 Relationship between the onset day of Meiyu and the South Asian anticyclone in April and the related mechanism
Hua Li (IAP)

15:50 Has the predictability of the South China sea summer monsoon improved since the late 1970s?
Yi Fan (IAP)

16:05 The characteristics of the temperature changing on the Qinghai-Tibet Plateau and its connections with the East Asian monsoon
Jianan Wang (CUIT)

16:20

18:00 Dinner

Tuesday, October 11, 2016

Chair: Prof. Nils Gunnar Kvamstø (UoB)

09:00 Last glacial maximum and mid-Holocene East Asian and global monsoon
Prof. Dabang Jiang (Nansen-Zhu/IAP/CAS)

09:45 Change of the extreme events in mainland China under the context of global warming
Prof. Guoyu Ren (CUG)

10:30 Coffee and Tea Break

Chair: Prof. Dabang Jiang (Nansen-Zhu)

10:50 Mechanisms and climate influence of the teleconnection patterns over wintertime North Pacific
Prof. Benkui Tan (PKU)

Presentations from young scientists and students

11:35 The warmest year 2015 in the instrumental record and its comparison with year 1998
Chao Zhang (CUG)

11:50 Possible linkage between spring extreme precipitation over East China and surface sensible heat flux over the Eurasian continent
Disang Shen (NUIST)

12:05 Anthropogenic contribution to the increased extreme precipitation events over China
Huixin Li (IAP)

12:20

12:30 Lunch

Chair: Prof. Xiuqun Yang (NJU)

13:30 Arctic Oscillation and Indian Ocean Climate
Prof. Daoyi Gong
Beijing Normal University
Beijing, China

14:15 North Atlantic Storm-Track Sensitivity to Projected Sea Surface Temperature: Local versus Remote Influences
Prof. Nils Gunnar Kvamstø (UoB)

15:00 Coffee and Tea Break

Chair: Dr Francois Counillon (NERSC; UoB)

Presentations from young scientists and students

15:20 The strengthened interannual relationship between the late-spring SST in the Indian Ocean and the early-summer precipitation in Northeast China
Tingting Han (IAP)

15:35 Combined effect of ENSO-like and Atlantic Multidecadal Oscillation on the interannual variability of the East Asian winter monsoon
Xin Hao (IAP)

15:50 Distinct patterns of tropical Pacific SST anomaly and their impacts on North American climate
Yuanyuan Guo (SYSU)

16:05 The connection of East Atlantic blocking anticyclones with the intra-seasonal precipitation variability in northern Pakistan in winter
Aeysha (IAP)

16:20

18:00 Dinner

Wednesday, October 12, 2016

Day of social activities

Thursday, October 13, 2016

Chair: Prof. Zhiping Wen (SYSU)

09:00 Understanding multidecadal climate variability in observations, paleo records and models.

Dr Odd Helge Otterå (UniResearch)

09:45 Tropical and extra-tropical teleconnection

Prof. Haijun Yang (PKU)

10:30 Coffee and Tea Break

Chair: Dr Odd Helge Otterå (UniResearch)

10:50 AMO and its climate effect

Prof. Shuanglin Li (CUG; Nansen-Zhu/IAP/CAS)

Presentations from young scientists and students

11:35 Response of the East Asian winter monsoon to strong tropical volcanic eruptions

Jiapeng Miao (IAP)

11:50 Response of winter moisture circulation to the India-Burma Trough and its modulation by the South Asian waveguide

Xiuzhen Li (SYSU)

12:05 Influence of northern hemispheric snow cover on the subseasonal precipitation anomaly over northern China during winter 2013/14

Jingyi Li (NUIST)

12:20

12:30 Lunch

Chair: Dr Linling Chen (NERSC)

13:30 Link the Arctic and Eurasian climate

Prof. Yongqi Gao (NERSC; Nansen-Zhu/IAP/CAS; UoB)

14:15 Pacific Decadal Oscillation and its climate impact

Prof. Yali Zhu (Nansen-Zhu/IAP/CAS)

15:00 Coffee and Tea Break

Chair: Prof. Noel Keenlyside (UoB; NERSC)

Presentations from young scientists and students

- 15:20** Simulation of tropical cyclone activity over the western North Pacific based on CMIP5 models
Haibo Shen (NUIST)
- 15:35** Stronger warming over Chinese sparse vegetation area in summer since 1981
Qinghan Huang (NUIST)
- 15:50** Untangling contributions of climate change to reference evapotranspiration over China during 1960-2012
Rongfan Chai (NUIST)
- 16:05** Enhanced impacts of November/December North Atlantic Oscillation on the following January European precipitation
Yang Liu (IAP)
- 16:20**
- 18:00 Dinner**

Friday, October 14, 2016

Chair: Prof. Ke Fan (Nansen-Zhu/IAP/CAS)

- 09:00** Probabilistic versus deterministic predictability of East Asian summer monsoon variability
Prof. Xiuqun Yang (NJU)
- 09:45** Seasonal to decadal climate predictability and prediction
Prof. Noel Keenlyside (UoB; NERSC)
- 10:30** Coffee and Tea Break

Chair: Prof. Zhongshi Zhang (CUG)

- 10:50** Advances in climate prediction in China
Prof. Ke Fan (Nansen-Zhu/IAP/CAS)

Presentations from young scientists and students

- 11:35** Formation mechanisms of the convectively driven and non-convectively driven Pacific/North American pattern
Ying Dai (PKU)
- 11:50** Influence of spring West Asia surface temperature on early summer Northeast China cold vortex's decadal changes
Di Wang (NUIST)

12:05 Intra-seasonal reverse of East Asian surface temperature anomaly in the winter of 2014/2015
Xinping Xu (NUIST)

12:20 Intraseasonal variation of summer rainfall over South China
Zhiqi Xu (NUIST)

12:35 Lunch

Chair: Prof. Haijun Yang (PKU)

13:30 Norwegian Climate Prediction Model (NorCPM) in application of climate prediction
Dr Francois Counillon (NERSC; UoB)

Presentations from young scientists and students

14:15 Changes in precipitable water vapor over the Tibetan Plateau and possible mechanisms
Lu Huang (CUIT)

14:30 Soil moisture characteristics and climate response of different climatic region in China
Xu Ding (CUIT)

14:45 Analysis of the temperature gradient over Tibetan Plateau
Yixuan Cheng (CUIT)

15:00 Coffee and Tea Break

Chair: Prof. Yongqi Gao (NERSC/Nansen-Zhu/UoB)

15:20 Brief summary of the Summer School

15:30 Discussion

16:00 Closing the Summer School

18:00 Dinner

Post-summer school program

Saturday, October 15, 2016

(Invited) Go to Beijing by high-speed train from Wuhan at XXXX

Scientific Committee:

Yongqi Gao (Chair)
Jianqi Sun (Co-Chair)
Noel Keenlyside, Ke Fan
Dabang Jiang, Odd Helge Otterå
Tore Furevik, Huijun Wang
Stein Sandven, Benkui Tan
Nils Gunnar Kvamstø, Xiuqun Yang
Trond Dokken, Zhiping Wen
Shuanglin Li, Jinzhong Min
Huawei (CUIT)

Local organizers:

Qin Wang (Chair)
Lei Chen (Co-chair)
Linling Chen
Astrid K. Fremme
Ying Dai
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Nansen Zhu International Research Center is founded by:

					
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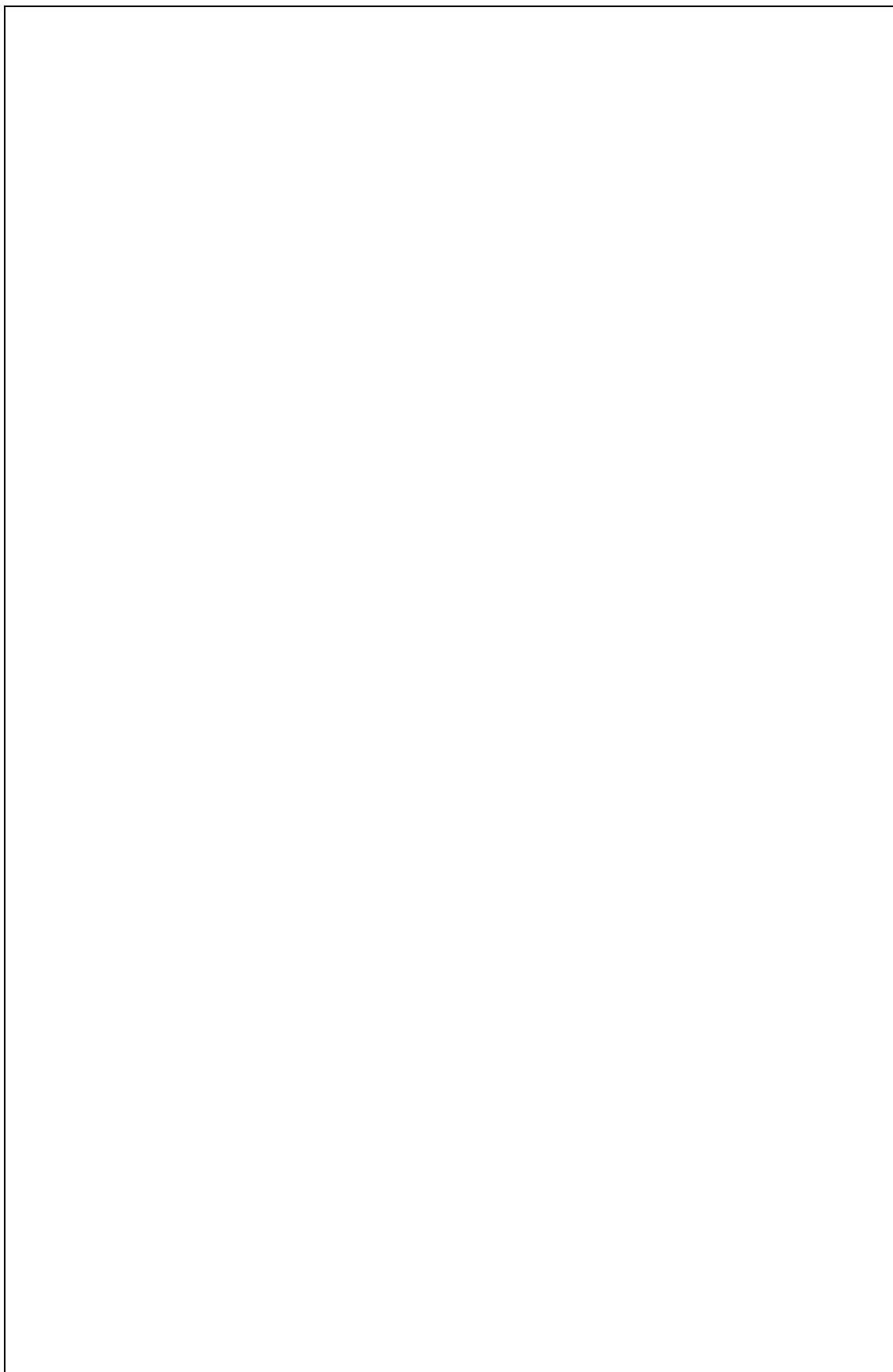
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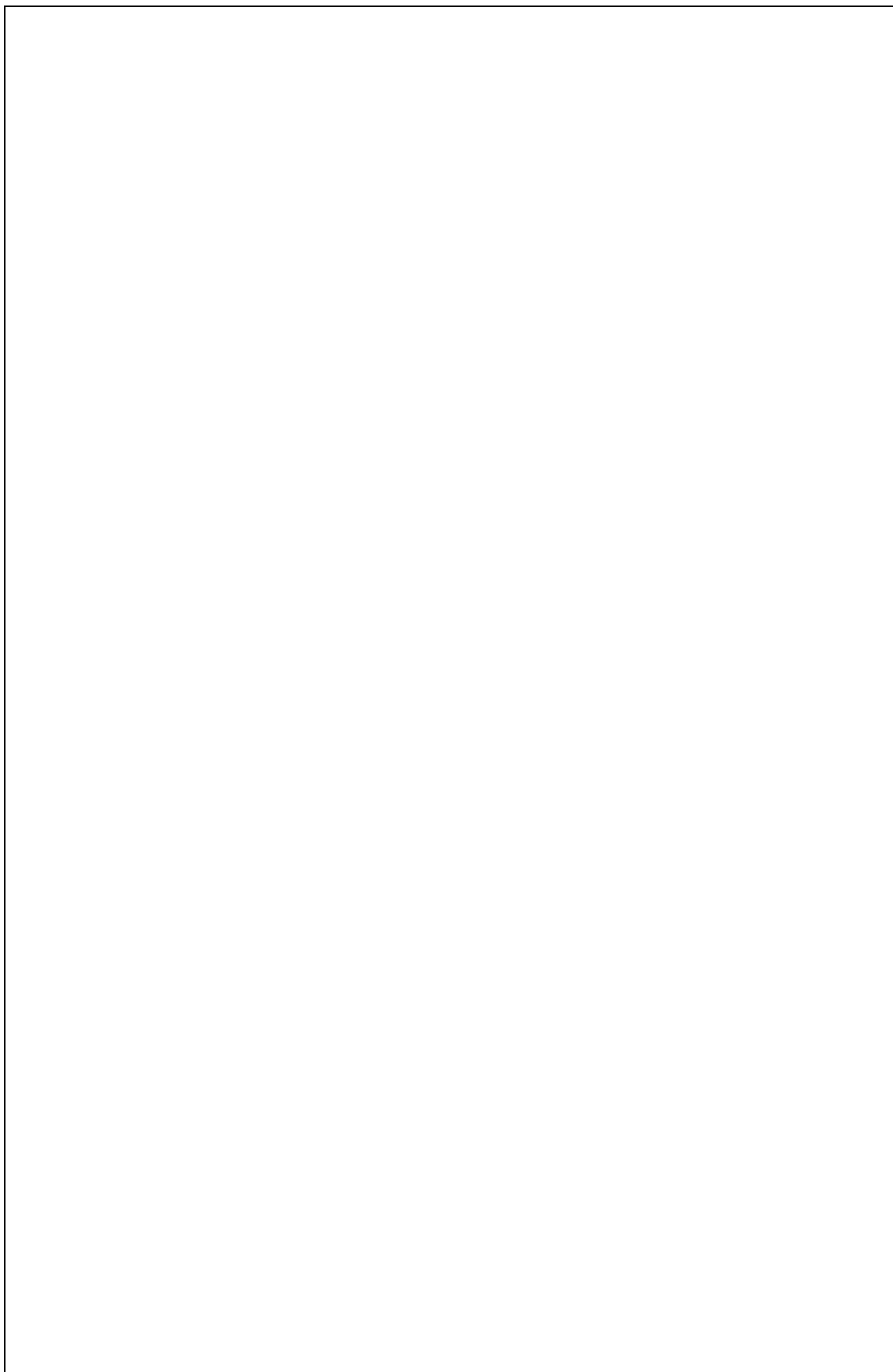
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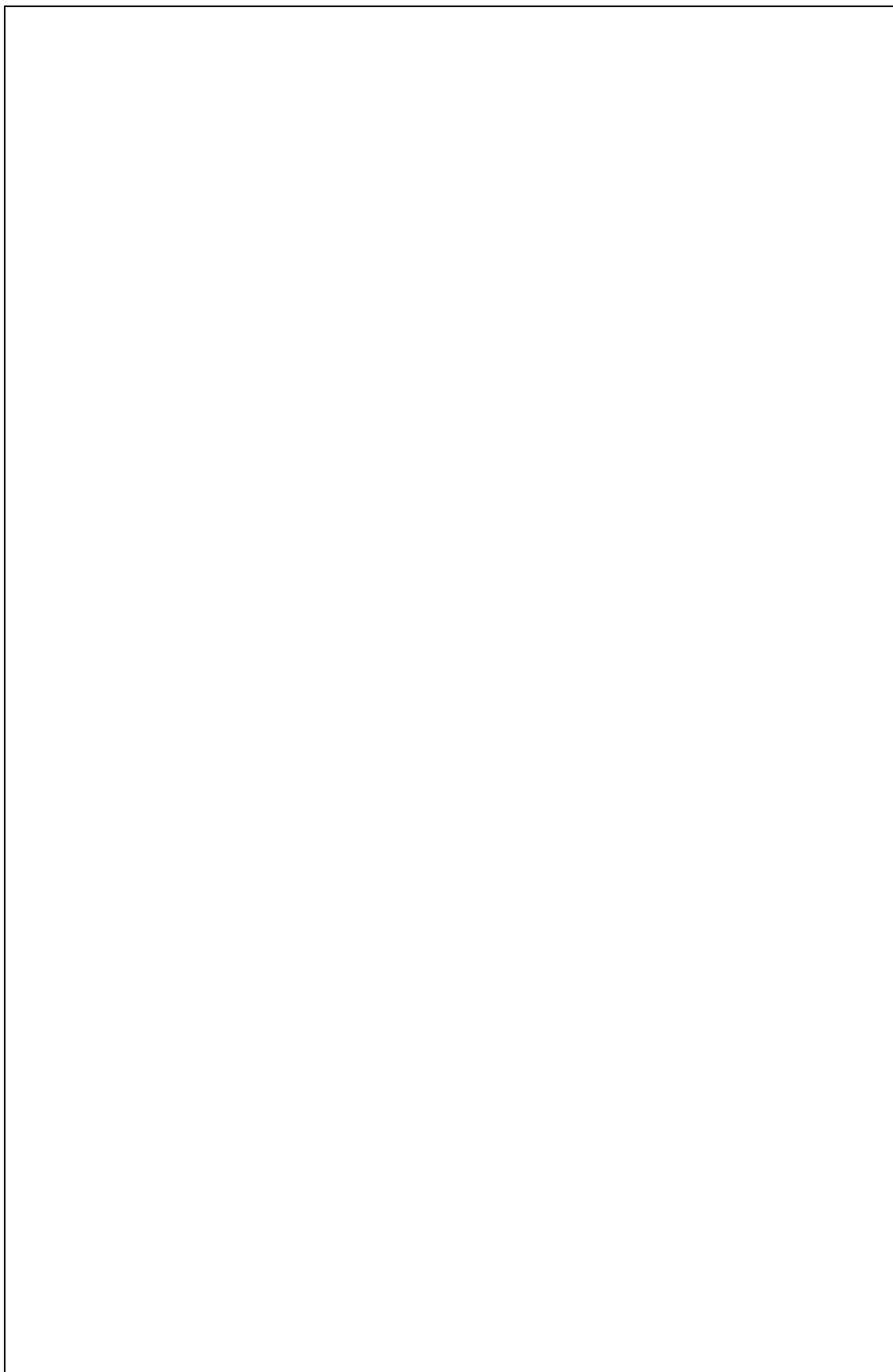
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Note

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Note

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Note

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Note

