VSOP AO5 PROPOSAL COVER SHEETS

DEADLINE	:	1	February,	2001
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SEND TO: VSOG, ISAS, 3-1-1 Yoshinodai, Sagamihara, Kanagawa 229-8510, JAPAN

(1) Date prepared: 30 Sep, 2000

(2) Proposal title: Imaging of the highest visibility sources (II)

(3)	INVESTIGATORS	INSTITUTION		
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: Kanagawa, 229-8510, JAPAN

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1	(6) Proposal Category (indicate all that apply):			
- ((v) I toposai Caucgory (indicate air that apply).			

Object type: $|\nabla|$ AGN, || Maser, || Stellar, || Pulsar, || Other: Observation type: Continuum, Spectral Line, Polarization, Time critical, Phase-reference, Other:

(7) Number of proposed experiments 5

An 'experiment' is one or more observations of one source at a fixed HALCA set-up. A request to observe the same source at 1.6 GHz and separately at 5 GHz requires two columns to be filled in in item (8) below. A request to observe the same source with HALCA simultaneously observing at 1.6 GHz and 5 GHz requires one column to be filled in. Multi-epoch observations of the same source at the same frequency – a 'monitoring experiment' – requires only one column to be filled in. Suggested observing dates, especially for for time-critical and monitoring experiments, should be specified in item (11).

The number of experiments in this proposal is:

(8) Details of proposed experiments

	Experiment 1	Experiment 2	Experiment 3	Experiment 4
Source name $(Jhhmm\pm ddmm)$	J1939-1525	J1957-3845	J2000-1748	J2011-1546
Alternative name	1936-155	1954-388	1958-179	2008-159
RA(J2000) (hh mm ss.ssss)	19 39 26.6577	19 57 59.8192	20 00 57.0904	20 11 15.7109
Dec(J2000) (dd mm ss.sss)	$-15\ 25\ 43.057$	$-38\ 45\ 06.356$	$+17\ 48\ 57.672$	$+15\ 46\ 40.253$
Observing frequency band (GHz)	1.6/5	1.6/5	1.6/5	1.6/5
Continuum observations:				
Standard VSOP freq. channels?				
Channel A range (MHz)				
Channel B range (MHz)				
Spectral line observations:				
Ch.A spectral line rest freq. (MHz)				
Ch.A LSR velocity (km/s)				
Ch.B spectral line rest freq. (MHz)				
Ch.B LSR velocity (km/s)				
FWHM of field of view required (mas)				
Min. spectral channels per IF channel				
Correlator averaging time (sec)				
No. of correlating passes (if >1)				
Total flux density (Jy)	1.8/2.0	5.5/6.0	2.2/2.5	1.6/1.8
Correlated flux (mJy)	1800/1900	5000/5100	2200/2600	1600/1800
Ground Radio Telescopes:	,	,	,	,
Suggested array given at Item (11)?		$\overline{\lor}$	V	V
GRT observing mode:				
128Mbps LCP (standard)			Ī	
128Mbps LCP/RCP				
256Mbps LCP/RCP				
Preferred correlator:				
No preference				
Mitaka				
Penticton	 <u> </u>	<u> </u>		∐
Socorro	V	V	$\sqrt{}$	V
Monitoring programs:				
Number of observations				
Mean interval (days)				
Related VSOP proposal code(s)	w038,w423	w038,w423	w038,w423	w038,w423

(9) VSOP spacecraft observing mode (see Section 3 and Table 2 of the VSOP Proposer's Guide):
(10) Assistance with preparation of ground telescope schedule files: ☐ VSOG assistance requested, ☑ Consultation desired, ☐ No assistance required
(11) Additional notes to the scheduler:
Suggested array for all experiment is the VLBA devided into 2 equal subarrays that make dual frequency $(1.6/5 \text{ GHz})$ snapshot observations with 3–5 minutes duty cycle. Additional 15 GHz ground-only observations are requested in the gaps of the space craft schedule. For the southern sources (Exp 2), the additional southern hemisphere teleescopes are requested to improve (u,v) coverange.
(12) Attach a scientific and technical justification, not in excess of 2 pages of text and 2 pages of figures. Refer to the VSOP Announcement of Opportunity for detailed instructions. Preprints and reprints will not be forwarded to the Scientific Review Committee.
EITHER e-mail the completed LATEX file to submit@vsop.isas.ac.jp and send two paper copies of the complete proposal to: VSOP Observing Proposals VSOP Science Operations Group
VSOP Science Operations Group

Kanagawa 229-8510 JAPAN **OR** e-mail the completed LATEX Cover Sheets file and, in a separate e-mail, the postscript file of the scientific and technical justification, to submit@vsop.isas.ac.jp

Information from the Cover Sheets of scheduled proposals will be made available from the VSOP WWW site.

Proposals must be received at ISAS by 1 February 2001

Institute of Space and Astronautical Science

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