

<b>Title</b>	<b>Example of station parameter reports grouped according IMS1.0 with ISF1.0 extensions</b>
<b>Author</b>	<b>Raymond J. Willemann</b> , IRIS, 1200 New York Ave, NW, Suite 800, Washington DC 20005, U.S.A; E-mail: <a href="mailto:ray@iris.edu">ray@iris.edu</a>
<b>Version</b>	September 2001; DOI: <b>10.2312/GFZ.NMSOP-2_IS_10.2</b>

## 1 Introduction

On the following pages a sample is shown of parameter readings of seismic stations from unassociated arrivals as they were grouped by the National Earthquake Information Center (NEIC) of the USGS in Denver, USA, and reported to the International Data Center (ISC) in Thatcham, UK.

ASCII characters are used as part of the Group and Arrival IDs. According to the IMS1.0 documentation about their data-type "Grouped Arrivals" these characters should help the agency to recognize that several phase arrivals come from the same event but that the reporting station can not locate the event, so they are assigned to the same "group". Note that NEIC uses the groups more restrictively: they only let arrivals share the same group ID if they are at the same station and likely come from the same event. This is within the rules. Examples are, e.g., on page 2 for stations VRAC, TXAR and SLR.

The simple example given below fails to show an important ISF extension, namely the phase information sub-block which allows to give, e.g., for every phase reading, information about what filter was used to do the reading, and so on. This kind of information can now be put, in accordance with the ISF format (see IS10.1) into a "sub-block" that would follow the one shown below and share the same values of arrival ID (column heading ArrID).

The abbreviations used for the different columns are more or less self-explanatory. Column Sta contains the three or four letter station codes and in column Chan the components may be given, in which the parameter reading (time, amplitude, period etc.) was made ( Z – vertical, H – horizontal; N – north and E – east). The column for characterizing the arrival quality (Qual) gives either e (for emergent) or i (for impulsive) onsets and may additionally give the polarity of the first motion (c for compression and d for dilatation). Note that (regrettably) in most cases no channel information is provided by the stations and also amplitudes (Amp) and period readings (Per) are rarely given. Azimuth (Azim) and slowness (Slow) readings are usually reported from seismic arrays only (see, e.g., YKA – Yellowknife Array on page 2). In the column SNR measurements of the signal-to-noise ratio could be reported, which, however, would make sense only with accompanying information in the phase information sub-block about the filter bandwidth. Note, that in some cases the column Author (reporting station or network/array) may also be blank (see page 6).

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Group	C	Author	ArrID
	VRAC	???		2000/09/01	00:05:41.30	Pn							00IAAAA		VRAC	AIAAAAA
	VRAC	???		2000/09/01	00:06:04.30	Sg							00IAAAA		VRAC	AIAAAAA
	CGP	???		2000/09/01	00:09:52.50	P						e	00IAAAA		PIVS	AIAAAAA
	ITM	???		2000/09/01	00:20:22.50	Pb						e	00IAAAC		ATH	AIAAAAA
	VLI	???		2000/09/01	00:20:41.00	Pg						e	00IAAAC		ATH	AIAAAAA
	EVR	???		2000/09/01	00:20:43.00	Pb						e	00IAAAC		ATH	AIAAAAA
	BKM	???		2000/09/01	00:21:28.50	P						i	00IAAAD		NOU	AIAAAAA
	NDI	???		2000/09/01	00:36:17.00	P						e	00IAAAE		NDI	AIAAAAA
	EZN	???		2000/09/01	00:56:01.00	Pg						e	00IAAAF		ISK	AIAAAAA
	EZN	???		2000/09/01	00:56:07.50	Sg						e	00IAAAF		ISK	AIAAAAA
	PGP	???		2000/09/01	01:00:09.80	P						e	00IAAAG		PIVS	AIAAAAA
	CWAR	???		2000/09/01	01:03:39.90	P				9.1	0.50	ci	00IAAAH		IDC	AIAAAAA
	FITZ	???		2000/09/01	01:04:04.80	P							00IAAAI		AUST	AIAAAAA
	ASAR	???		2000/09/01	01:05:27.30	P							00IAAAJ		IDC	AIAAAAA
	ASAR	???		2000/09/01	01:05:37.30	Pp							00IAAAJ		IDC	AIAAAAA
	ASPA	???		2000/09/01	01:05:27.30	P						e	00IAAAK		AUST	AIAAAAA
	STKA	???		2000/09/01	01:06:47.35	P							00IAAAL		IDC	AIAAAAA
	STKA	???		2000/09/01	01:06:57.10	Pp							00IAAAL		IDC	AIAAAAA
	STKA	???		2000/09/01	01:25:44.13	Lr							00IAAAL		IDC	AIAAAAA
	MAT	???		2000/09/01	01:16:52.00	P						e	00IAAAM		JMA	AIAAAAA
	MAT	???		2000/09/01	01:17:26.00	S				12.4	0.45	e	00IAAAM		JMA	AIAAAAA
	GJRN	???		2000/09/01	01:17:32.36	P							00IAAAN		DMN	AIAAAAA
	GHAN	???		2000/09/01	01:17:34.02	P							00IAAAN		DMN	AIAAAAA
	HARN	???		2000/09/01	01:17:48.04	P							00IAAAN		DMN	AIAAAAA
	TXAR	???		2000/09/01	01:18:06.75	PKPbc							00IAAAP		IDC	AIAAAAA
	TXAR	???		2000/09/01	01:18:17.63	Pp'bc							00IAAAP		IDC	AIAAAAA
	TXAR	???		2000/09/01	01:18:23.25	sp'bc							00IAAAP		IDC	AIAAAAA
	MAT	???		2000/09/01	01:24:12.00	P						e	00IAAAQ		JMA	AIAAAAA
	MAT	???		2000/09/01	01:24:21.00	S						e	00IAAAQ		JMA	AIAAAAA
	NB2	???		2000/09/01	01:26:59.50	P				2.1	0.80		00IAAAAR		NAO	AIAAAAA
	SLR	???		2000/09/01	01:43:25.90	P				155.0	1.00	e	00IAAAAS		PRE	AIAAAAA
	SLR	???		2000/09/01	01:43:40.10	S						e	00IAAAAS		PRE	AIAAAAA
	KSR	???		2000/09/01	01:43:47.90	P						e	00IAAAAS		PRE	AIAAAAA
	KSR	???		2000/09/01	01:43:54.90	S						e	00IAAAAS		PRE	AIAAAAA
	BLF	???		2000/09/01	01:44:21.30	P						e	00IAAAAS		PRE	AIAAAAA
	BLF	???		2000/09/01	01:44:55.90	S				33.0	0.70	e	00IAAAAS		PRE	AIAAAAA
	BOSA	?HZ		2000/09/01	01:44:21.90	P						e	00IAAAAT		NEIC	AIAAAAA
	BOSA	?HZ		2000/09/01	01:44:56.10	S						e	00IAAAAT		NEIC	AIAAAAA
	YKA	???		2000/09/01	01:50:20.60	P	274.	1.7				e	00IAAAAU		OTT	AIAAAAA
	KYTH	???		2000/09/01	01:56:56.50	Pb						e	00IAAAAV		ATH	AIAAAAA
	ITM	???		2000/09/01	01:57:02.70	Pb						e	00IAAAAV		ATH	AIAAAAA

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Group	C	Author	ArrID
	PCI	???		2000/09/01	02:00:32.50	P						ce	00IAAAW	DJA		ArrID
	VNA1	???		2000/09/01	02:06:18.90	P						ci	00IAAAW	DJA		AIAAAA^A
	VNA3	???		2000/09/01	02:06:20.20	P						di	00IAAAW	AWI		AIAAAA A
	VNA2	???		2000/09/01	02:06:24.10	P						i	00IAAAW	AWI		AIAAAA^A
	PLP	???		2000/09/01	02:11:39.50	P						e	00IAAAW	PIVS		AIAAAAaA
	PLP	???		2000/09/01	02:11:47.00	S						e	00IAAAW	PIVS		AIAAAAaA
	EZN	???		2000/09/01	02:33:28.00	Pg						e	00IAAAW	ISK		AIAAAAaB
	EZN	???		2000/09/01	02:33:35.00	Sg						e	00IAAAW	ISK		AIAAAAaB
	FINC	???		2000/09/01	02:39:19.70	P						e	00IAAAW	PMG		AIAAAAaC
	ILAR	???		2000/09/01	03:20:59.90	P						e	00IAAAW	IDC		AIAAAAaD
	INK	???		2000/09/01	03:21:38.55	P						e	00IAAAW	IDC		AIAAAAaE
	NVAR	???		2000/09/01	03:24:27.38	P						e	00IAAAW	IDC		AIAAAAaF
	FINES	???		2000/09/01	03:24:30.20	P						e	00IAAAW	IDC		AIAAAAaG
	TXAR	???		2000/09/01	03:26:00.03	P	296.	13.8				e	00IAAAW	IDC		AIAAAAaH
	YKA	???		2000/09/01	03:48:38.60	P						e	00IAAAW	OTT		AIAAAAaI
	VRAC	???		2000/09/01	03:56:19.80	Pg						e	00IAAAW	VRAC		AIAAAAaJ
	VRAC	???		2000/09/01	03:56:38.20	Sg						e	00IAAAW	VRAC		AIAAAAaK
	YKA	???		2000/09/01	04:29:11.40	P	272.	6.6		1.5	0.80	e	00IAAAW	OTT		AIAAAAaL
	GSPH	???		2000/09/01	04:32:34.00	P						ci	00IAAAW	PIVS		AIAAAAaM
	BIPH	???		2000/09/01	04:32:59.00	P						i	00IAAAW	PIVS		AIAAAAaN
	BIPH	???		2000/09/01	04:33:27.50	S						i	00IAAAW	PIVS		AIAAAAaN
	ASAR	???		2000/09/01	04:35:05.25	P						e	00IAAAW	IDC		AIAAAAaO
	STKA	???		2000/09/01	04:36:29.25	P						e	00IAAAW	IDC		AIAAAAaP
	TXAR	???		2000/09/01	04:48:19.77	PKP						e	00IAAAW	IDC		AIAAAAaQ
	MAIO	???		2000/09/01	05:05:29.00	P						di	00IAAAW	TEH		AIAAAAaR
	MAIO	???		2000/09/01	05:06:04.00	S						e	00IAAAW	TEH		AIAAAAaR
	KER	???		2000/09/01	05:07:04.00	P						e	00IAAAW	TEH		AIAAAAaS
	BILL	???		2000/09/01	05:08:42.10	P						ci	00IAAAW	TERS		AIAAAAaT
	BILL	???		2000/09/01	05:11:57.80	S						e	00IAAAW	TERS		AIAAAAaT
	YKA	???		2000/09/01	05:08:56.10	P	297.	12.8				e	00IAAAW	OTT		AIAAAAaU
	ISP	???		2000/09/01	05:09:23.60	Pn						e	00IAAAW	ISK		AIAAAAaV
	YKA	???		2000/09/01	05:09:40.10	P				6.6	0.80	e	00IAAAW	OTT		AIAAAAaW
	ELL	???		2000/09/01	05:09:42.00	P						e	00IAAAW	ISK		AIAAAAaX
	WMQ	???		2000/09/01	05:09:57.00	P	288.	8.7		96.0	1.50	e	00IAAAW	BJI		AIAAAAaY
	MA2	???		2000/09/01	05:10:13.40	P						e	00IAAAW	TERS		AIAAAAaZ
	MA2	???		2000/09/01	05:10:43.20	Pp						e	00IAAAW	TERS		AIAAAAaZ
	MA2	???		2000/09/01	05:14:42.50	S						e	00IAAAW	TERS		AIAAAAaZ
	KAF	???		2000/09/01	05:10:46.10	P						e	00IAAAW	HEL		AIAAAA{A
	YAK	???		2000/09/01	05:11:14.40	P						e	00IAAAW	YARS		AIAAAA A
	MOX	???		2000/09/01	05:11:37.40	P						e	00IAAAW	JEN		AIAAAA}A
	DAC	?HZ		2000/09/01	05:11:40.30	P						e	00IAAAW	NEIC		AIAAAA~A

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Group	C	Author	ArrID
	NB2	???		2000/09/01	05:11:52.70	P				2.8	0.80	__	00IAAABZ		NAO	AIAAAAB!A
	YSS	???		2000/09/01	05:11:56.70	P				50.0	1.00	_ci	00IAAACA		OBN	AIAAAAB"A
	CLNS	???		2000/09/01	05:12:00.00	P						__	00IAAACB	YARS	YARS	AIAAAAB#A
	CLNS	???		2000/09/01	05:12:31.00	sP						__	00IAAACB	YARS	YARS	AIAAAAB#B
	NRIS	???		2000/09/01	05:12:15.00	P						__	00IAAACB	OBN	OBN	AIAAAAB\$A
	KLR	???		2000/09/01	05:12:22.00	P						_e	00IAAACB	OBN	OBN	AIAAAAB%A
	TIY	???		2000/09/01	05:12:45.60	P						_e	00IAAACD	BJI	BJI	AIAAAAB&A
	TIY	??Z				LR				540.0	20.00	__	00IAAACD	BJI	BJI	AIAAAAB&B
	TIY	??N				LR				470.0	15.00	__	00IAAACD	BJI	BJI	AIAAAAB&C
	TRO	???		2000/09/01	05:13:00.12	P						_e	00IAAAAC	BER	BER	AIAAAAB'A
	KTK1	???		2000/09/01	05:13:06.12	P						_e	00IAAAAC	BER	BER	AIAAAAB(A
	LVZ	???		2000/09/01	05:13:13.70	P						_e	00IAAACF	OBN	OBN	AIAAAAB)A
	APA	???		2000/09/01	05:13:15.90	P						_ci	00IAAACF	OBN	OBN	AIAAAAB*A
	TLY	???		2000/09/01	05:13:33.30	P						_ci	00IAAACF	OBN	OBN	AIAAAAB+A
	MOY	???		2000/09/01	05:13:41.00	P				32.0	1.20	_e	00IAAACF	OBN	OBN	AIAAAAB,A
	NVS	???		2000/09/01	05:13:56.00	P				54.0	0.70	_i	00IAAACG	ASRS	ASRS	AIAAAAB-A
	NVS	???		2000/09/01	05:14:26.00	P						_e	00IAAACG	ASRS	ASRS	AIAAAAB-B
	NB2	???		2000/09/01	05:13:58.90	P						__	00IAAACG	BER	BER	AIAAAAB-A
	BJI	???		2000/09/01	05:14:06.00	P						_e	00IAAAAC	BJI	BJI	AIAAAAB.A
	BJI	??Z				P				10.0	1.00	__	00IAAAAC	BJI	BJI	AIAAAAB/A
	HHC	???		2000/09/01	05:14:17.20	LR				590.0	18.00	__	00IAAACI	BJI	BJI	AIAAAAB/B
	HHC	???				P				30.0	1.20	_e	00IAAACI	BJI	BJI	AIAAAAB0A
	HHC	??Z				LR				760.0	10.00	__	00IAAACI	BJI	BJI	AIAAAAB0B
	HHC	??N				LR				900.0	18.00	__	00IAAACI	BJI	BJI	AIAAAAB0C
	ARU	??E		2000/09/01	05:14:22.60	P				880.0	14.00	__	00IAAACI	BJI	BJI	AIAAAAB0D
	OBN	???		2000/09/01	05:14:45.10	P						__	00IAAACJ	OBN	OBN	AIAAAAB1A
	OBN	???		2000/09/01	05:15:19.40	pP				58.0	0.70	_ci	00IAAACJ	OBN	OBN	AIAAAAB2A
	NJ2	??Z		2000/09/01	05:14:46.80	P						_e	00IAAACJ	OBN	OBN	AIAAAAB2B
	GTA	??Z				LR				25.0	1.00	__	00IAAACK	BJI	BJI	AIAAAAB3A
	GTA	??Z		2000/09/01	05:14:56.50	P				660.0	13.00	__	00IAAACK	BJI	BJI	AIAAAAB3B
	XAN	???				LR				17.0	1.00	__	00IAAACK	BJI	BJI	AIAAAAB4A
	GTA	??Z				LR				440.0	14.00	__	00IAAACK	BJI	BJI	AIAAAAB4B
	XAN	???		2000/09/01	05:15:03.00	P				710.0	16.00	__	00IAAACK	BJI	BJI	AIAAAAB4C
	XAN	??Z				LR				9.4	0.80	__	00IAAACK	BJI	BJI	AIAAAAB5A
	XAN	???				LR				610.0	20.00	__	00IAAACK	BJI	BJI	AIAAAAB5B
	XAN	??E				LR				600.0	20.00	__	00IAAACK	BJI	BJI	AIAAAAB5C
	LZH	???		2000/09/01	05:15:05.50	P				67.0	1.00	_c	00IAAACK	BJI	BJI	AIAAAAB6A
	LZH	???		2000/09/01	05:15:32.50	pP						__	00IAAACK	BJI	BJI	AIAAAAB6B
	LZH	???		2000/09/01	05:15:54.00	sP				630.0	16.00	__	00IAAACK	BJI	BJI	AIAAAAB6C
	LZH	??Z				LR						__	00IAAACK	BJI	BJI	AIAAAAB6D
	LZH	??N				LR				3870.0	22.00	__	00IAAACK	BJI	BJI	AIAAAAB6E
	WHN	???		2000/09/01	05:15:08.00	P						_e	00IAAACK	BJI	BJI	AIAAAAB7A

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Group	C	Author	ArrID
	CD2	???		2000/09/01	05:15:33.80	P				19.0	1.00	c	00IAAAACK		BJI	AIAAAB8A
	GVA	???		2000/09/01	05:15:51.60	P				40.0	1.00	d	00IAAAACK		BJI	AIAAAB9A
	KIV	???		2000/09/01	05:15:53.20	P				46.0	1.00	d	00IAAAACK		OBN	AIAAAB:A
	KIV	???		2000/09/01	05:16:05.80	S						i	00IAAAACK		OBN	AIAAAB:B
	KIV	???		2000/09/01	05:25:05.50	S						g	00IAAAACK		OBN	AIAAAB:C
	ZEI	???		2000/09/01	05:16:02.00	P						e	00IAAAACK		OBN	AIAAAB;A
	ZEI	???		2000/09/01	05:16:48.00	P						e	00IAAAACK		OBN	AIAAAB;B
	LSA	???		2000/09/01	05:16:10.60	P						e	00IAAAACK		BJI	AIAAAB<A
	YKA	???		2000/09/01	05:16:12.80	P						e	00IAAAACK		OTT	AIAAAB=A
	MAIO	???		2000/09/01	05:16:24.00	P	237.	4.8		1.3	0.70	e	00IAAAACK		TEH	AIAAAB>A
	MAIO	???		2000/09/01	05:17:44.00	P						e	00IAAAACK		TEH	AIAAAB?A
	MAIO	???		2000/09/01	05:18:21.00	S						e	00IAAAACK		TEH	AIAAAB?B
	KONO	???		2000/09/01	05:30:14.03	P						e	00IAAAACK		BER	AIAAAB@A
	MAT	???		2000/09/01	05:34:07.00	P						e	00IAAAACK		JMA	AIAAABAA
	MAT	???		2000/09/01	05:34:45.00	S						e	00IAAAACK		JMA	AIAAABAB
	KBS	???		2000/09/01	05:35:24.93	P						e	00IAAAACK		BER	AIAAABBA
	KSAR	???		2000/09/01	05:46:16.30	P						e	00IAAAACK		BER	AIAAABBA
	ASAR	???		2000/09/01	05:50:01.50	P						e	00IAAAACK		IDC	AIAAABCA
	STKA	???		2000/09/01	05:50:55.20	P						e	00IAAAACK		IDC	AIAAABCA
	FINES	???		2000/09/01	05:53:55.05	P						e	00IAAAACK		IDC	AIAAABDA
	NVAR	???		2000/09/01	05:53:55.20	P						e	00IAAAACK		IDC	AIAAABEA
	BKM	???		2000/09/01	06:00:48.00	P						i	00IAAAACK		IDC	AIAAABFA
	PLCA	???		2000/09/01	06:01:10.06	P						e	00IAAAACK		NOU	AIAAABGA
	LPAZ	???		2000/09/01	06:01:21.84	PKPbc						e	00IAAAACK		IDC	AIAAABHA
	STKA	???		2000/09/01	06:05:54.00	P						e	00IAAAACK		IDC	AIAAABIA
	MAIO	???		2000/09/01	06:06:05.00	P						e	00IAAAACK		IDC	AIAAABKA
	MAIO	???		2000/09/01	06:06:42.00	S						e	00IAAAACK		TEH	AIAAABLA
	ASAR	???		2000/09/01	06:06:35.45	P						e	00IAAAACK		TEH	AIAAABLB
	VNDA	???		2000/09/01	06:10:04.74	P						e	00IAAAACK		IDC	AIAAABMA
	ILAR	???		2000/09/01	06:12:53.90	P						e	00IAAAACK		IDC	AIAAABNA
	MRA	???		2000/09/01	06:20:20.50	P						e	00IAAAACK		IDC	AIAAABOA
	MRA	???		2000/09/01	06:20:23.00	S						ci	00IAAAACK		SJA	AIAAABPA
	WATA	???		2000/09/01	06:20:43.60	S				39.6	0.10	ci	00IAAAACK		SJA	AIAAABPB
	WATA	???		2000/09/01	06:20:45.70	Pg						ci	00IAAAACK		VIE	AIAAABQB
	WTTA	???		2000/09/01	06:20:43.70	Pg				18.2	0.20	ci	00IAAAACK		VIE	AIAAABQB
	WTTA	???		2000/09/01	06:20:46.00	Pg						ci	00IAAAACK		VIE	AIAAABRA
	SQTA	???		2000/09/01	06:20:45.10	Pg						i	00IAAAACK		VIE	AIAAABRB
	SQTA	???		2000/09/01	06:20:48.60	Pg				5.4	0.10	ci	00IAAAACK		VIE	AIAAABSA
	MOTA	???		2000/09/01	06:20:46.30	Pg						i	00IAAAACK		VIE	AIAAABSA
	MOTA	???		2000/09/01	06:20:50.70	Pg				6.0	0.20	d	00IAAAACK		VIE	AIAAABTB
	DPC	???		2000/09/01	06:23:55.30	Pg						e	00IAAAACK		PRU	AIAAABUBA

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Group	C	Author	ArrID
	DPC	???		2000/09/01	06:24:10.60	Sg						e	00IAAADG		PRU	AIAAABUB
	BRG	???		2000/09/01	06:23:59.90	Pg						i	00IAAADH			AIAAABVA
	BRG	???		2000/09/01	06:24:19.30	Sg						i	00IAAADH			AIAAABVB
	IZI	???		2000/09/01	06:52:39.00	Pn						e	00IAAADJ		ISK	AIAAABWA
	BAG	???		2000/09/01	06:54:02.00	P						i	00IAAADJ		QCP	AIAAABXA
	BCPH	???		2000/09/01	06:54:06.60	P						ci	00IAAADK		PIVS	AIAAABYA
	RIY	???		2000/09/01	06:57:23.40	Pg						i	00IAAADL		ZAG	AIAAABZA
	RIY	???		2000/09/01	06:57:27.60	Sg						i	00IAAADL		ZAG	AIAAABZB
	ASAR	???		2000/09/01	06:58:23.80	P							00IAAADM		IDC	AIAAAB[A
	PHNC	???		2000/09/01	06:59:58.10	P							00IAAADN		NIC	AIAAAB\A
	PHNC	???		2000/09/01	07:00:05.20	S							00IAAADN		NIC	AIAAAB\B
	CSS	???		2000/09/01	07:00:01.00	P				2.7	0.24		00IAAADN		NIC	AIAAAB]A
	CSS	???		2000/09/01	07:00:09.50	S							00IAAADN		NIC	AIAAAB]B
	ALFC	???		2000/09/01	07:00:09.80	P							00IAAADN		NIC	AIAAAB^A
	ALFC	???		2000/09/01	07:00:25.80	S							00IAAADN		NIC	AIAAAB^B
	AKMC	???		2000/09/01	07:00:12.90	P							00IAAADN		NIC	AIAAAB A
	AKMC	???		2000/09/01	07:00:30.30	S							00IAAADN		NIC	AIAAAB B
	NVAR	???		2000/09/01	07:01:32.28	P							00IAAADP		IDC	AIAAAB^A
	TXAR	???		2000/09/01	07:02:01.23	P							00IAAADP		IDC	AIAAAB B
	ILAR	???		2000/09/01	07:02:18.50	P							00IAAADP		IDC	AIAAABBa
	YKA	???		2000/09/01	07:02:54.60	P						e	00IAAADQ		OTT	AIAAABBa
	YLV	???		2000/09/01	07:23:09.20	Pg	29.	12.7				e	00IAAADR		ISK	AIAAABCA
	YLV	???		2000/09/01	07:23:12.30	Sg						e	00IAAADR		ISK	AIAAABdA
	IZI	???		2000/09/01	07:23:13.00	Pg						e	00IAAADR		ISK	AIAAABdB
	ISK	???		2000/09/01	07:23:13.70	Pg						e	00IAAADR		ISK	AIAAABeA
	HRT	???		2000/09/01	07:23:14.00	Pg						e	00IAAADR		ISK	AIAAABfA
	KCT	???		2000/09/01	07:23:18.60	Pg						e	00IAAADR		ISK	AIAAABgA
	EYL	???		2000/09/01	07:23:19.50	Pg						e	00IAAADR		ISK	AIAAABhA
	EYL	???		2000/09/01	07:23:31.00	Sg						e	00IAAADR		ISK	AIAAABiA
	EDC	???		2000/09/01	07:23:23.00	Pg						e	00IAAADR		ISK	AIAAABiB
	EDC	???		2000/09/01	07:23:37.00	Sg						e	00IAAADR		ISK	AIAAABjA
	DST	???		2000/09/01	07:23:26.00	Pg						i	00IAAADR		ISK	AIAAABjB
	DST	???		2000/09/01	07:23:41.00	Sg						e	00IAAADR		ISK	AIAAABkA
	MDU	???		2000/09/01	07:23:34.00	Pn						e	00IAAADR		ISK	AIAAABkB
	FIA0	???		2000/09/01	07:28:41.35	Pn						e	00IAAADS		HEL	AIAAABlA
	FIA0	???		2000/09/01	07:29:09.70	Lg							00IAAADS		HEL	AIAAABmB
	HFS	???		2000/09/01	07:29:05.45	Pn							00IAAADT		HFS	AIAAABnA
	HFS	???		2000/09/01	07:29:51.05	Sn							00IAAADT		HFS	AIAAABnB
	HFS	???		2000/09/01	07:30:05.78	Lg							00IAAADT		HFS	AIAAABnC
	OBKA	???		2000/09/01	07:29:09.50	Pg						ci	00IAAADU		VIE	AIAAABoA
	OBKA	???		2000/09/01	07:29:16.10	Sg						i	00IAAADU		VIE	AIAAABoB