

29th October - DAY 1

PLENARY ROOM

1: OPENING

9:00h

Opening

9:30h

Keynote **K. Sumption** - GLOBAL OVERVIEW

10h

Keynote **D. King** - GLOBAL STATUS REPORT FOR FMD: TRACKING THE EMERGENCE AND SPREAD OF NEW VIRAL LINEAGES

10:30h

Coffee break

2: THE SCALE OF THE PROBLEM

11:00h

M. de la Puente Arevalo - MODELLING FMD VACCINE REQUIREMENTS FOR MULTI-COUNTRY FMD OUTBREAKS IN EUROPE

11:15h

R. Sanson - EVALUATING VACCINATION STRATEGIES TO CONTROL FMD: A COUNTRY COMPARISON STUDY

11:30h

C. Miller - UNDERSTANDING VACCINE DEMAND IN THE ENDEMIC SETTING

11:45h

A. Railey - HOUSEHOLD PERCEPTIONS OF RISK AS DRIVERS FOR ADOPTION OF FMD VACCINATION

12:00h

Y. Qiu - MASS FMD VACCINATION IN CENTRAL MYANMAR, 2015-2016

12:15h

C. Bartels - ASSESSMENT OF THE RISK OF INCURSION OF EXOTIC FMD VIRUSES INTO SOUTHEAST ASIA

12:30h

Lunch

PLENARY ROOM

PARALLEL ROOM

3A: VACCINE SUPPLY

3B: VIROLOGY

14:00h

A. Dekker - H.S. FRENKEL AND J. VAN BEKKUM, HOW THEY IMPROVED VACCINE AVAILABILITY AND QUALITY

T. Nishi - IDENTIFICATION OF GENES INVOLVED IN PATHOGENICITY OF FMD VIRUS USING TWO STRAINS ISOLATED IN JAPAN WITH DIFFERENT VIRAL FEATURES

14:00h

14:15h

R. Bergevoet - VACCINE BANKS: POLICY OPTIONS EVALUATED USING THE EU EVALUATION FRAMEWORK

N. Knowles - COMPLETE GENOME SEQUENCE ANALYSIS OF OVER 140 FMD VIRUSES ISOLATED FROM FREE-LIVING AFRICAN BUFFALO (SYNCHERUS CAFFER) IN ZIMBABWE

14:15h

14:30h

P. Hudelet - THE CHALLENGES OF FMD VACCINE PRODUCTION

K. Scott - EVOLUTION AND COMPETITION OF SAT STRAINS DURING BUFFALO TRANSMISSION IN A CONTROLLED CHALLENGE EXPERIMENT

14:30h

14:45h

N.M. Aineplan - MUTUAL REGISTRATION OF VACCINES IN EAST AFRICA: PROGRESS AND ISSUES FOR BETTER ACCESS TO EFFECTIVE FMD VACCINES?

L. Ferretti - FMDV EVOLUTIONARY DYNAMICS WITHIN INFECTED BUFFALOES AND ITS LARGE-SCALE CONSEQUENCES

14:45h

15:00h

Discussion

J. Biswal - ANTIBODY RESPONSES TO THE MAJOR ANTIGENIC SITES OF FMD VIRUS SEROTYPE O AFTER PRIMO-VACCINATION, RE-VACCINATION AND AFTER NATURAL EXPOSURE

15:00h

Discussion

15:15h

15:30h

Coffee Break

15:30h

4A: BREAKING BARRIERS

4B: IMMUNOPATHOLOGY

16:00 PM

K. Mintiens - ACCESS OF FARMERS AND CO-OPERATIVES TO VACCINES

J. Valarcher - GENE SIGNATURES ASSOCIATED WITH FMD VIRUS INFECTION AND PERSISTENCE PART I: PERSISTENT FMDV INFECTION IN AN AIR-LIQUID INTERFACE MODEL OF BOVINE SOFT PALATE

16:00 PM

16:15 PM

B. Ahmadi - EXPLORING PRIVATE AND PUBLIC SECTOR RIGHTS AND RESPONSIBILITIES IN PREVENTION AND CONTROL OF FMD: THE CASE OF RIGHT TO ACCESS VACCINES BY LIVESTOCK KEEPERS

F. Pfaff - GENE SIGNATURES ASSOCIATED WITH FMD VIRUS INFECTION AND PERSISTENCE PART II: TRANSCRIPTOMIC ANALYSIS OF ACUTE AND PERSISTENT FMDV INFECTION IN BOVINE SOFT PALATE

16:15 PM

16:30 PM

M. Pérez-Figueira - FOOT-AND-MOUTH DISEASE RESEARCH GAP ANALYSIS WORKSHOP 2018

J. Arzt - TRANSMISSION OF FMD FROM PERSISTENTLY INFECTED CARRIER CATTLE TO NAÏVE CATTLE VIA TRANSFER OF OROPHARYNGEAL FLUID

16:30 PM

16:45 PM

K. Tjornhoj - BIOSAFETY BARRIERS

Discussion

16:45 PM

17:00 PM

Discussion

From 17:30h

POSTER SESSION

30th October - DAY 2

PLENARY ROOM		PARALLEL ROOM	
5A: VACCINE SELECTION		5B: MODELLING FREE & NON-FREE AREAS	
8:30h	A. Romey - RAPID, ON SITE, DIAGNOSIS OF FMD AND SAFE AND COST-EFFECTIVE SHIPMENT OF SAMPLES USING LATERAL FLOW DEVICES FOR LABORATORY DIAGNOSTICS		W. Probert - REINFORCEMENT LEARNING FOR CONTEXT-DEPENDENT CONTROL OF EMERGENCY OUTBREAKS OF FMD
8:45h	B. Armson - THE UTILITY OF POOLED MILK FOR FMD SURVEILLANCE IN NAKURU COUNTY, KENYA.		R. Sanson - INVESTIGATING THE BENEFITS OF AN ADAPTIVE MANAGEMENT APPROACH INVOLVING EMERGENCY VACCINATION USING SIMULATED FMD OUTBREAKS IN NEW ZEALAND
9:00h	C. Colenutt + E. Brown - (Combined) EVALUATION OF ENVIRONMENTAL SAMPLING AS A LOW TECHNOLOGY METHOD FOR SURVEILLANCE OF FMD VIRUS IN AN ENDEMIC AREA + ENVIRONMENTAL SAMPLING: A SURVEILLANCE TOOL FOR FMD VIRUS IN MARKETPLACES		S. Sellman - EVALUATING OPTIMAL CONTROL STRATEGIES FOR FMDE WITH THE US DISEASE OUTBREAK SIMULATION
9:15h	P. Ribeca - EFFECTIVE IN SILICO SEQUENCE-BASED PREDICTION OF FMDV VACCINE MATCHING		K. VanderWaal - BETWEEN-HERD TRANSMISSION DYNAMICS OF FMD IN KENYA RANGELANDS
9:30h	A. Capozzo + R. Reeve - IN-VITRO CORRELATES OF HETEROLOGOUS PROTECTION USING AVIDITY AND IgG-SUBTYPING ELISAs + ASSESSMENT OF EXISTING AND FUTURE VACCINE SELECTION TECHNIQUES – MOVING FORWARD		D. Ekwem - USING NETWORKS OF LIVESTOCK MOBILITY TO IMPROVE CONTROL OF ENDEMIC FMD IN NORTHERN TANZANIA
9:45h			A. Appoloni (Via Adobe) - LIVESTOCK MOBILITY IN WEST AFRICA: NETWORK ANALYSIS AND APPLICATIONS
10:00h	<i>Discussion</i>		<i>Discussion</i>
10:30h	<i>Coffee Break</i>		10:30h
6A: GFRA - CONVENTIONAL VACCINES		6B: MODELLING BUSINESS SECURITY DURING OUTBREAKS	
11:00h	<i>Keynote</i> T. Doel - WHAT CAN THEY ACHIEVE, HOW STRAIGHTFORWARD WOULD IT BE TO REPLACE THEM GIVEN AN ALTERNATIVE?		K. Mintiens - MODELLING BIOSECURITY
11:30h	<i>Keynote</i> M. Perez-Filgueira - QUALITATIVE ASPECTS OF THE IMMUNE RESPONSES RELATED TO PROTECTION AGAINST FMDV CHALLENGE IN CATTLE		M. Sanderson - SECURE BEEF SUPPLY IN THE U.S. – PLANNING FOR CONTROL AND CONTINUITY OF BUSINESS IN AN FMD OUTBREAK
12:00h	<i>Keynote</i> W. Vosloo - SPECIES SPECIFIC FMD VACCINES - WHAT IS THE EVIDENCE?		R. Bradhurst - MODELLING MANAGEMENT STRATEGIES FOR VACCINATED ANIMALS AFTER AN OUTBEAK OF FMD AND THE IMPACT ON RETURN TO TRADE
12:30h	<i>Lunch</i>		M. Tildesley - MODELLING THE IMPACT OF REGIONAL MOVEMENT CONTROL POLICIES FOR FMD OUTBREAKS IN DISEASE FREE COUNTRIES
			<i>Discussion</i>
PLENARY ROOM			
7: CHAMPIONING NEW VACCINES			
13:50h	A. Capozzo + F. Maree INTRODUCTION		
14:00h	<i>Keynote</i> B. Charleston + E. van den Born - Vaccine Efficacy (VACCINE EFFICACY OF FMD VIRUS-LIKE PARTICLES PRODUCED BY THE BACULOVIRUS EXPRESSION SYSTEM)		
14:30h	<i>Keynote</i> T. de los Santos - The GMO (Adenovirus) option (A CURRENT PERSPECTIVE ON ADENOVIRUS 5-VECTORED FMD VACCINES)		
15:00h	<i>Keynote</i> M. Mourino + E. Rieder - Attenuated FMD vaccines (FMD-LL3B3D VACCINE PLATFORM: SAFE, HIGHLY POTENT, FULLY DIVA COMPATIBLE, INACTIVATED FMD VIRUS VACCINES)		
15:30h	<i>Coffee break</i>		
8A: THE FUTURE OF FMD VACCINES			
16:00h	F. Maree - AN OVERVIEW OF REVERSE GENETIC APPROACHES TO ENHANCED FMD VACCINES IN AFRICA		
16:15h	M. Ryan - RATIONAL DESIGN OF ATTENUATED FMDV VACCINES BY ELEVATION OF –CPG- AND –UPA- DINUCLEOTIDE FREQUENCIES		
16:30h	<i>Discussion</i>		
8B: VACCINE EFFICACY & EFFECTIVENESS - IMPROVING THE USE OF FIELD STUDIES			
16:45h	G. Ferrari + D. Paton INTRODUCTION		
17:00h	E. Brocchi - FIELD TRIAL TO ESTIMATE THE EFFECTIVENESS OF THE VACCINATION PROGRAM IMPLEMENTED IN THE MAGHREB REGION		
17:15h	M. Tildesley - MODELLING THE IMPACT OF FARMING PRACTICES UPON VACCINE EFFECTIVENESS IN ENDEMIC SETTINGS – A CASE STUDY IN KENYA		
From 17:30h	POSTER SESSION		

31st October - DAY 3				
BREAKOUTS				
	ROOM 1	ROOM 2	ROOM 3	
	9A : AFRICA EPI-NET	9B: IMPROVING CONVENTIONAL VACCINES	9C: SIGN-UP DISCUSSIONS	
9:00	D. Lefebvre + A. Vleeschauwer + D. Ehizibolo - SEROTYPES IN NIGERIA	H. Gaude - A GVII-2015, A NEW HIGH POTENCY VACCINE WITH BROAD PROTECTION AGAINST A/ASIA/G-VII THREAT	Predicting Vaccine Demand	
9:15	K. Scott - SEROTYPING SEROPREVALENCE OF FMD IN CATTLE FROM UGANDA SURVEILLANCE 2014-2018.	J. Horsington - INTRADERMAL APPLICATION OF FOOT-AND-MOUTH DISEASE VACCINES FOR PIGS		
9:30	K. de Clercq - FMD IN BURUNDI	P. Eblé - EFFICACY OF A/MAY/97 FMDV VACCINE AGAINST HETEROLOGOUS CHALLENGE WITH A FIELD VIRUS FROM THE EMERGING A/ASIA/G-VII LINEAGE IN CATTLE		
9:45	W. Chikurunhe - DOES THE AFRICAN BUFFALO REALLY SPREAD FMD? A SERO-SURVEY OF FMD IN CATTLE AROUND MANA POOLS CONSERVATION PARK OF NORTHERN ZIMBABWE	T. Tuthill - A SIMPLE UNIVERSAL TEST TO QUANTITATE 146S ANTIGEN DURING PRODUCTION OF FMD VACCINES	AESOP: A New Option for Emergency Reserves?	
10:00	E. Houndje - CONTROL METHODS OF FMD IN BENIN BY TRIAL VACCINATION AND MEDICINAL PLANTS	S. Parida - IMPROVING THE DURATION OF IMMUNITY FOR FMD VACCINES		
10:15	C. Kasanga - MOLECULAR CHARACTERISATION OF FMD VIRUS DETECTED DURING 2015 – 2018 IN TANZANIA: INSIGHTS FOR VIRUS DIVERSITY AND EVOLUTION IN AFRICA	S. Berryman - THE USE OF REVERSE GENETICS TO FACILITATE THE GROWTH OF FMDV FOR THE PRODUCTION OF VACCINES		
10:30	A. Diaoure - FMD SURVEILLANCE AND CONTROL IN MALI			
10:30h - 11:00h	Coffee / tea break			10:30h - 11:00h
	ROOM 1	ROOM 2	ROOM 3	
	10A: DIAGNOSES & DIAGNOSTIC TOOLS	10B: VACCINE QUALITY ASSURANCE	10C: EuFMDIS DEMONSTRATION	
11:00h	M. Eschbaumer - MULTIPLEX REAL-TIME RT-PCR FOR DETECTION OF FMDV, RIFT VALLEY FEVER VIRUS AND BOVINE VIRAL DIARRHEA VIRUS IN BULK TANK MILK	C. Stenfeldt - THE INTERDEPENDENCE OF FMDV PATHOGENESIS, CHALLENGE SYSTEM, AND OUTCOME OF VACCINE STUDIES	K. Mintiens. Demonstration + Debate on future work with S. Mortenson (EuFMD) and R. Bergevoet (EuFMD)	
11:15h	L. Comtet - EMERGENCY SUPPLY OF FMD DIAGNOSTIC KITS: REAGENT BANKS AND IDVET SOLUTIONS	A. Dekker - GOOD CORRELATION BETWEEN VACCINE MATCH IN POTENCY TESTS AND r1-VALUE		
11:30h	C. Browning - RESULTS FROM A INTER-LABORATORY EXERCISE TO EVALUATE NON-STRUCTURAL PROTEIN ELISA KITS	S. Jamal - POTENCY ASSESSMENT OF FMD VACCINES USING STANDARDISED SEROLOGICAL ASSAYS		
11:45h	A. Ludi - RESULTS OF THE 2016 AND 2017 PROFICIENCY TESTING SCHEMES FOR FMD DIAGNOSTIC METHODS	Discussion		
12:00h	Discussion			
12:30h - 14:00h	Lunch break			12:30h - 14:00h
	11A: MIDDLE EAST & ASIA EPI-NET	11B: VACCINE PERFORMANCE		
14:00 PM	C. van Maanen - DETECTION OF FMDV O/ME-SA/IND-2001E IN JORDAN	S. Kerfua (Via Adobe) - RETROSPECTIVE FMD OUTBREAK REPORTS FROM UGANDA AND TANZANIA BORDER DISTRICTS (2011-2016): IMPLICATIONS FOR FMD CONTROL BY VACCINATION	14:00 PM	
14:15 PM	I. Keskin - THE ASSOCIATION BETWEEN BORDER PROVINCES OF TURKEY AND FMD OUTBREAKS	S. El Azhari - UPDATE OF FMD IN THE MAGHREB REGION: VACCINATION ISSUES	14:15 PM	
14:30 PM	M. McLaws - RISK-BASED STRATEGIC PLANS FOR FIVE PRIORITY DISEASES IN THE PALESTINIAN AUTHORITY, INTEGRATED.	G. Ilziibat - ASSESSMENT OF FMD VACCINES IN MONGOLIA AND THE ROLE OF BACTRIAN CAMELS	14:30 PM	
14:45 PM	C. Bartels - EMBEDDING PROGRESSIVE CONTROL FOR FMD IN THE POLICY AGENDA FOR LIVESTOCK PRODUCTION IN THREE COUNTRIES IN SOUTHEAST ASIA	Discussion	14:45 PM	
15:00 PM	K. Bankowska - TRANS-POOL MOVMENT OF TWO FMDV SEROTYPE A LINEAGES: A/ASIA/G-VII AND A/AFRICA/G-IV			
15:15 PM	G. Limon-Vega - SOCIO-ECONOMIC IMPACT OF FMD OUTBREAKS AND CONTROL MEASURES AT DIFFERENT SCALES IN MONGOLIA: FROM NATIONAL LEVEL GROSS LOSSES TO HERDERS' FOOD SECURITY			
15:30h	Coffee break			
	PLENARY ROOM			
	12: CLOSURE AND AKNOWLEDGEMENTS			
16:00h	TBD			
17:00h	Closure			

OS 18 - Posters (All to be shown on every day) - Draft

Size: max 90x120cm. No color or font restriction. No need to put the EuFMD logo. Posters will be visible for the entire meeting in the Foyer "Sala Colonnato" where coffee breaks are served. Please send us a slide with the title and message of your poster. At the end of each plenary/parallel session, we will show a collated ppt of all the posters relevant to that session. In addition to which, you are free to record an Instagram video or photo and upload it with the #OS18, and its title/session. It will be shown on the EuFMD Instagram on a monitor at the meeting and on our Instagram site.

Session 2	Session 6a	D. Ehizibolo - GENETIC CHARACTERIZATION OF FMD VIRUSES RESPONSIBLE FOR OUTBREAKS IN NIGERIA DURING 2016: RESURGENCE OF THE NOVEL FMD- SAT1 TOPOTYPE	D. Paton - USE OF SEROLOGICAL TESTS FOR CHECKING NSP PURITY OF FMD VACCINES	J.S. Chahal - A MODIFIED DENDRIMER-RNA VACCINE PLATFORM AGAINST FMD VIRUSES
A. Railey - HOUSEHOLD PREFERENCES FOR DIAGNOSTIC TESTING TO VACCINE MATCH IN AN ENDEMIC SETTING	B. Jackson - DEVELOPMENT OF MASTER VACCINE SEEDS FOR FOOT-AND-MOUTH DISEASE CONTROL IN SUB-SAHARAN AFRICA	H. Ularamu - CHARACTERIZATION OF FMDV ISOLATES CANDIDATE STRAINS FOR POLYVALENT VACCINE DEVELOPMENT IN NIGERIA	P. Tuncer-Göktuna - WHAT CAN WE SAY? HARMONY OR DISHARMONY BETWEEN VACCINE MATCHING AND CHALLENGE STUDY	M. Chitray - THE USE OF NOVEL SINGLE-CHAIN ANTIBODY FRAGMENTS AGAINST SAT SEROTYPE FMD VIRUSES IN DIAGNOSTICS
Session 3b	Ah-Young Kim - STABILIZING FACTORS ASSOCIATED WITH VACCINE ANTIGEN PRODUCTION USING KOREAN LOCAL STRAIN OF FMDV	Session 10a	Session 11a	BK. Ku - GENETIC CHARACTERIZATION OF THE 2018 FMD VIRUSES IN SOUTH KOREA
A. Dekker - VP1 IS IMPORTANT IN HEPARIN SULPHATE BINDING OF FMDV STRAIN O MANISA	JH. Park - ANTIGENIC PROPERTIES OF STABILIZED VIRUS PARTICLES FOR A FMD DISEASE VACCINE	M. Eschbaumer - FMD VIRUS ADSORBED TO GENOTUBE SWABS REMAINS INFECTIOUS AT HIGH TEMPERATURE	F. Rosso - REGIONAL COOPERATION BETWEEN TRANSCAUCASIA AND NEIGHBOURING COUNTRIES ON PREVENTION AND CONTROL OF FMD	J. Maud. HUMANS APPLY VACCINES: HOW CAN NEW TRAINING TOOLS BE USED TO BUILD CAPACITY FOR FMD CONTROL?
E. Foglia - REPLICATION DYNAMICS OF MIXED FMD VIRUSES IN VITRO	J. Seago - CHIMERIC SAT2 FMD VIRUS WITH INCREASED CAPSID THERMOSTABILITY FOR IMPROVED VACCINES	L. Henry - COMPARATIVE PERFORMANCE OF MONOCLONAL AND POLYCLONAL-BASED ANTIGEN ELISAS FOR FMDV DETECTION	G. Pezzoni - FMD OUTBREAKS DUE TO AN EXOTIC VIRUS SEROTYPE A LINEAGE (A/AFRICA/G-IV) IN ALGERIA IN 2017	A. Morris - INVESTIGATING CROSS REACTIVITY OF SEROLOGICAL ENZYME LINKED IMMUNOSORBENT ASSAYS
D. King - USING HIGH THROUGHPUT SEQUENCING TO CHARACTERISE LOW-FREQUENCY DIVERSITY OF FOOT-AND-MOUTH DISEASE VIRUS DURING VACCINE STRAIN ADAPTATION	P. Zamorano - NEW CAGE-LIKE PARTICLE ADJUVANT INCREASED THE IMMUNOGENICITY AND THE PROTECTION INDUCED BY A VACCINE AGAINST FMD VIRUS A/ARG/2001.	J. Horsington - INACTIVATION OF FMDV IN TISSUE SAMPLES TO ENSURE SAFE TRANSPORT FROM INFECTED PREMISES TO DIAGNOSTIC LABORATORIES	N. Singanallur - SERO-SURVEILLANCE FOR FMD IN SMALLHOLDER GOAT PRODUCTION IN LAO PDR, 2017-2018	P. Opperman - CONSTRUCTION OF A RECOMBINANT ANTIBODY PHAGE DISPLAY LIBRARY DERIVED FROM THE IMMUNE REPERTOIRE OF FMD-SAT IMMUNE BUFFALO. POTENTIALLY NEW DIAGNOSTIC REAGENTS?
M. Mahapatra - IDENTIFICATION OF NOVEL ANTIBODY BINDING DETERMINANTS OF SEROTYPE O FOOT-AND-MOUTH DISEASE VIRUS	Session 8b	S. Parida - DETECTION OF EARLY FMD VIRUS INFECTION IN PIGS USING IgA AND IgM ASAAYS	General	HM. Pyo - INTER-LABORATORY PROFICIENCY TEST FOR SEROLOGICAL DIAGNOSIS OF FMD IN SOUTH KOREA
Session 5a	JE. Park - POST-VACCINATION MONITORING OF TRIVALENT FMD VACCINE CONTAINING O1 MANISA, O 3039, A22 IRAQ TO EVALUATE VACCINE EFFECTIVENESS IN SMALL SCALE FIELD TRIALS	HM. Pyo - PRODUCTION OF SWINE SEROLOGICAL PANEL FOR THE VALIDATION OF FMD ANTIBODY TESTS	A. Asfor - A NOVEL VP2 PEPTIDE ELISA FOR UNIVERSAL DETECTION OF ANTIBODIES FOR FMD SERO-SURVEILLANCE	M. Saduakassova - DEVELOPMENT AND EVALUATION OF LINEAGE-SPECIFIC REAL-TIME RT-PCR ASSAYS FOR THE DETECTION AND CHARACTERISATION OF FMD VIRUSES CIRCULATING IN ASIA
E. Brown - EVALUATING THE EFFICENCY OF ENVIRONMENTAL SAMPLING METHODS FOR THE DETECTION AND QUANTIFICATION FMD VIRUS	Session 9a	Session 10b	SM. Barani - CLINICAL SENSITIVITY OF CATTLE, SHEEP AND GOATS TO DIFFERENT SEROTYPES OF FMD VIRUS IN CENTRAL REGION OF IRAN	A. Yasmin - CHARACTERISATION OF BOVINE DENDRITIC CELLS FOLLOWING FMDV INFECTION
C. Colenutt + E. Brown - EVALUATION OF ENVIRONMENTAL SAMPLING AS A LOW TECHNOLOGY METHOD FOR SURVEILLANCE OF FOOT-AND-MOUTH DISEASE VIRUS IN AN ENDEMIC AREA	F. Banda - FMD OUTBREAK IN LUKULU DISTRICT , EVIDENCE OF VIRAL SPREAD OUTSIDE THE KNOWN ENDEMIC AREAS	F. Feenstra - INSIGHTS AND OPTIMISATION OF THE FMD VIRUS NEUTRALISATION TEST FOR R1 ANTIGENIC MATCHING	S. Blaise-Bosseau - DEVELOPMENT AND EVALUATION OF A MULTIPLEX CLASSICAL RT-PCR FOR SIMULTANEOUS DETECTION AND TYPING OF FMDV IN WEST AFRICA	